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SAN FRANCISCO, CALIF., JANUARY 3, 1931

Published Every Saturday
Thirty-first Year, No. 1



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Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

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BOILER-ELEVATOR INSPECTORS TO MEET

The annual convention of the California Certified Boiler and Elevator Inspectors will be held in the Civic Auditorium, San Francisco, January 6, 7, 8.

The first half of this convention will be the elevator session. Able speakers will present interesting and educational papers, dealing with new developments in elevator construction, and also inspection problems in the field.

The last half of the convention, commencing Wednesday, January 7 at 2 P. M., will be the boiler session. Several very interesting papers about the 1400 pound per square inch boiler installation and on new methods of welding, will be read.

The greater part of this session will be devoted to practical inspection problems in the field, and the application of the new and revised paragraphs of both the Boiler Safety Orders and the Air Pressure Tank Safety Orders, or the Unfired Pressure Vessel Code.

COMMITTEE ASKS DELAY IN LICENSE LAW LEGISLATION

Postponement of all legislation bearing upon the registration of architects and engineers until after its report is submitted is asked by the joint committee of architects and engineers set up recently to attempt to iron out the difficulties which have caused friction between the two professions. While the points at issue between the two professions are being considered by the committee, its members feel that no new legislation should be passed now which might add fuel to the fire.

The joint committee was set up by the American Institute of Architects and the American Society of Civil Engineers, the American Institute of Electrical Engineers and the American Society of Mechanical Engineers. The architects are represented by J. Riely Gordon, C. Herrick Hammond, John Hall, Rankin and D. Everett Wald, chairman; the engineers by W. T. Chevalier, Robert Ridgway, Harry A. Kidder and F. A. Molitor, chairman.

The government has adopted and will pursue a policy of maintaining the highest prevailing wage scales in construction contracts, President Hoover announces.

Mr. Hoover points out that the policy was first adopted a year ago when employers were called here for an agreement to maintain the then existing wage levels. He said it had been followed in every direction both as to existing contracts for construction of government buildings throughout the Nation and as to contracts being let.

COURT UPHOLDS REGISTRATION LAW

An important ruling upholding the State Department of Professional and Vocational Standards in enforcement of the Contractors' Registration Law was made by Judge Walter S. Gates in Department 8, Superior Court of Los Angeles County, December 17, in *Southwest Builders and Contractor*. Two cases were at issue: *Burnett vs. the Department of Professional and Vocational Standards* and *Brick vs. the Department of Professional and Vocational Standards*.

Complaints had been filed with Jas. F. Collins, director of the department and Registrar of Contractors, against the plaintiffs in both cases and he had summoned them for hearing to show cause why their licenses as contractors should not be suspended or revoked. Both plaintiffs had applied for and obtained a temporary writ of prohibition to prevent the hearing. The cases were assigned for trial December 17 and when called in court the Department of Professional and Vocational Standards countered with a demurrer.

J. A. Boland, attorney for the plaintiffs, attacked the constitutionality of the law, declaring that the legislature had no power to confer upon any commissioner or board authority to conduct hearings for the revocation of a state license. However, the court in passing upon the cases, did not consider the question of constitutionality of the act, but sustained the demurrer and dissolved the writ of prohibition on the ground that the plaintiffs' remedy did not lie in such a procedure because provision is made in the law for appeal to the court from any ruling made by the Registrar of Contractors. Unless stayed by appeal to a higher court, the hearing ordered by the Registrar of Contractors in the cases at issue will proceed.

Because of the great importance of the cases, which are the first in connection with the Contractors' Registration Law to reach the Superior Court, the Department of Professional and Vocational Standards was represented by Attorney L. G. Campbell, representing the attorney-general; Keith Carlin, attorney for the department; and Attorney J. W. Morin of Pasadena, who made the original draft of the contractors' law passed by the legislature.

Charles U. Heuser, general engineering contractor of Glendale, has been elected president of the Southern California Chapter, Associated General Contractors of America. K. P. Lowell, of K. P. Lowell & Co., Ltd., Los Angeles, was elected vice-president. Directors are: Newell Chardee, James A. Lynch, J. M. Macdonald, W. J. Escherich, Geo. R. Wells, Wm. A. Johnson, R. A. Wattson, George J. Beck, M. S. Ross, and Melville Dozier, Junior.

MATERIAL DEALERS TO FINANCE HOMES

The Associated Leaders of Lumber & Fuel Dealers at Chicago have voted to organize a mortgage corporation to finance home building.

The plan provides for a subscription of \$2,500,000 by the lumber manufacturers to be represented by 6 per cent cumulative preferred stock and a subscription of a similar amount by the retailers to be represented by common stock, subscriptions to be payable over a period of three years.

The plan also contemplates eventual bond issues up to \$25,333,333, providing a total capital of \$33,333,333. Loans will be made up to 75 per cent of the valuation of the property, 15 per cent being allowed for second mortgages and 60 per cent for first mortgages. It is expected the new corporation will be organized and functioning by April 1, 1931.

Dealers participating in the plan will each have to subscribe \$3000 a year for three years and adopt a merchandising policy of controlled marketing of complete homes to the consumer.

CLAY PRODUCTS INSTITUTE ISSUES PRODUCTS MANUAL

The Clay Products Institute of California, 611 Archibuteo building, Los Angeles, is distributing complimentary copies of the "Clay Products Manual" to all certificated architects, registered engineers and others directly connected with the building industry. The manual is sent only upon written request.

The manual, compiled by Norman W. Kelch assisted by M. C. Poulson, contains considerable new data which have been obtained in connection with research work carried on by the Institute during the past several years, together with carefully selected data derived from a variety of authorities on the various subjects.

It contains complete information regarding the uses and merits of the following burnt clay products: Common, face, fire, paving, and sewer brick, vitrified sewer pipe and liners, vitrified segmental blocks, load-bearing, partition, roof, and drain tile, terra cotta, flue lining, fire clay vents, chimney pipe, and patent chimneys.

The Division of Simplified Practice of the Bureau of Standards, Department of Commerce, recently announced that Simplified Practice Recommendations Number 57—Wrought-Iron and Wrought-Steel Pipe, Valves, and Fittings has been reaffirmed by the standing committee of the industry, without change, for another year. A survey of the 1929 production of this product, conducted prior to the revision meeting, indicated the degree of adherence to the recommendation to be approximately 88 per cent.

STABILIZING AND IMPROVING THE EFFECT OF UNEMPLOYMENT

For many years the General Electric Company has been making constant endeavors, each one a step in a comprehensive program, for removing fear of the future from the minds of the workers in the shops, that in his constant fear of not being able to provide for and take care of his responsibilities, first to his parents, or, if he has taken on further responsibilities, to his wife and children.

The first item to give peace and security of mind is provision for the uncertainty of life. In 1919 Free Group Life Insurance was offered by the Company, to which later was added a participation by the employees, so that the life insurance of each employee has been increased. This has been received very well by all the employees, and all new employees coming into the organization, after five years of service, come under its provisions. The maximum life insurance offered free by the Company is \$1500 and the Additional Insurance, paid for by the employee, varies depending upon his age, service and salary, but usually is in the same amount or larger than the free insurance offered by the Company. This has worked out quite satisfactorily and since the inauguration of the plan \$6,500,000 has been paid to the families of deceased employees. The organization of the General Electric Company is now so large that there are deaths in its family each day, and each morning the names of those departed is published, where it is seen that the reaper has taken young people as well as old. Life insurance in this way does much to ameliorate the tragic circumstance of death and relieves somewhat the hardship of the departure of the family breadwinner, either in whole or in part.

The second matter of importance in assuring peace of mind, not only of the employee but even more frequently of the wife, is the ownership of the home. While the General Electric Co. has never been in the position of landlord, it does assist the employees in acquiring or building homes. In the last seven years 2500 homes, worth \$19,000,000 have been acquired or built by the employees, with a payment on their part of upwards of \$6,000,000, the balance being held in the form of first and second mortgages by regular financial institutions of the Company. Making provisions for the employees can borrow this money on a favorable basis. To date there has been no loss in connection with this work, either to the banks or to the Company.

The third is a plan to enable the worker to put something aside for the inevitable "rainy day." The General Electric Company, like many companies, started with the plan of having employees subscribe to its common stock. But its common stock, of course, is subject to the fluctuations of all stocks and soon after the subscription was offered the market price went down. Many of the employees were frightened and cancelled their subscriptions. Later on the price went up and many thousands of employees saw the opportunity to make a profit and sold their stock so it was not effective in promoting saving by the employees or having the employees become financially interested in the Company in which they were spending their lives. Therefore, a new company was organized, known as the G. E. Employees Securities Corporation,

Address of Gerard Swope, President, General Electric Company, over WGY and the NBC network from Schenectady, December 18.

where the General Electric Company takes the stock risk and the employees subscribe for its bonds. These bonds are not subject to the fluctuations at cost at any time the employee so desires. While these bonds are held by the employee and he is in the active service of the Company, he receives a return of 8%. The employees elect directors who represent them on the Board and are familiar with the transactions taking place, and each year a report of its operations is published. This G. E. Employees Securities Corporation is the largest single holder of General Electric common stock and its other funds are diversified in investments in public utility companies throughout the United States. These companies at the same time are customers of the General Electric Company, so the employees are financially interested not only in the Company for which they work but also its customers. These investments have been so diversified that the market value even today exceeds the cost and the income return has always been ample to pay the return on the bonds and stock that have been issued. Upwards of 36,000 employees now hold bonds, with a total value of \$4,000,000.

The fourth item to give security and peace of mind is provision for old age. Of course, if each employee made provision, along the line of the above, for death, a home and savings, old age provision, theoretically, might not be necessary, but experience has proven that it is. The General Electric Company in 1912 adopted a Pension Plan which gave a pension to every employee and this has since been supplemented by what we call an Additional Pension Plan, whereby the employee contributed 1 1/2% of his earnings. This will have the effect of increasing his pension on retirement by approximately 50%, so that in some cases the employee may retire on a pension of three-quarters of the income he has received while in the active service of the Company, one-third of this pension being provided by the Additional Pension Plan which he has paid for and the balance by the Pension provisions of the Company. These Pensions are paid from a Trust Fund which has been set aside quite separately and apart from the Company's operations. The amount the employee has put aside in the additional Pension Plan is always his; if he leaves the Company he receives this money plus interest; if he dies, his beneficiary receives it and if he lives to old age he enjoys it. Since the inauguration of the plan, the Pensions paid to retiring employees have amounted to almost \$4,000,000 and there are approximately 1000 on the Pension rolls of the Company at the present time.

The fifth and probably the most important from the standpoint of the worker is the security, rest and fear of unemployment. For years the General Electric Company has been developing methods of stabilizing employment for its workers. This varies, of course, with the product. It is easiest in a standardized line, which does not become obsolescent and does

not deteriorate. One such article is the incandescent lamp, where for many years we have been able to avoid unemployment because of seasonal fluctuations by making lamps in the summer time, when fewer lamps are used, storing them and distributing them to our customers in the fall and winter months when the days are shorter.

The other end of the line, and of course, very much more difficult, is our engineering products, such as large turbines, where due to the progress of the art or the demands of the customers, no two turbines ordered at different times of the larger sizes are alike and very little can be done on these engineering products in the way of stabilization of employment. Notwithstanding, on the smaller engineering products, in slack times we do make parts that are used generally and interchangeably and place them in stock. The plan has been worked out throughout the Company to further as far as possible, this policy of stabilization of employment. Every effort is being made to carry out this plan effectively. The plan lays down certain principles which the management of each works does its best to follow, first when business is increasing and secondly when work begins to fall off.

But no one company is able to grapple effectively with this problem of cyclical variations in business, so the best that can be done is to have a plan which will ameliorate the hardships when they do arise. Five years ago a plan of unemployment pensions, loans and relief was offered, but at that time the employees considered unemployment remote and it was not accepted. This year it was again proposed and received immediate acceptance.

Fundamental in this new plan for relief are the following principles:

1. Joint and equal contributions by employees of the Company.
2. Joint participation in the administration of the plan.
3. Aid through group action to those workers who are in need or require temporary loans, or who become unemployed, or for whom only part-time work is available.
4. In times of unemployment emergency, co-operation and assistance from those employees of the Company not usually affected by unemployment, and assistance by the Company in equal amount.

The plan is adopted by each works as a unit, by a majority vote of eligible employees. It has now been adopted or is being considered by the employees of all works. It is of further interest, that the plan is quite generally favored by departments which are not usually subject to lay-off in periods of unemployment and whose members would not make normal contributions to the fund, but would contribute during the unemployment emergencies.

This plan is not final in form or in substance and may be modified by joint action of the employees and the Company. It is an interesting experiment in which the Company is glad to join its employees, first in endeavoring to find a solution, and, second, in ameliorating the tragic effects of unemployment on particular employees, who are in no sense responsible for their unemployment. One of the original provisions of this plan as announced last June, no employee was eligible for unemployment

benefits under it unless he had made payments of one per cent of wages into the fund for a period of six months. This limitation would have delayed initial payments in the earliest instance until next February. In the light of the emergency now existing (the payment of benefits and the extension of loans to unemployed workers commenced December 1, and the Company is sincerely gratified that it has found this step possible as a means of alleviating the condition of those for whom no work is available. Benefit payments now consist of 50% of the wages of those entirely unemployed or a smaller amount, sufficient to afford 50% of normal wages to those on less than half time employment. Loans are being made in those urgent cases where the Company feels that the real distress otherwise arising must be alleviated.

The comments in regard to this Unemployment Emergency Plan from the organization have been very gratifying, indeed, not only from the workmen in the shops, but from the many thousands of miles from the factories, the main comments we have had being "Why was the percentage made so low as 1%" and "Why have we not begun this earlier." These are encouraging and very close to the organization is knit together, the plan, therefore, tending to improve the unity and spirit of the organization.

The Company also announced last week a further plan for the year 1931 guaranteeing fifty weeks work of not less than thirty hours each week in the Incandescent Lamp Department, which I referred to earlier in my talk, where we are dealing with a standard product not subject to obsolescence and deterioration. This plan is entirely voluntary and will not be adopted unless 60% or more of the employees in the works are interested and every employee is asked to have a further "anchor to windward" setting aside 1% of his earnings. The Company guarantees 5% interest and the money so saved always belongs to the employee. If he dies the accumulation is given to his beneficiary and if he remains with the Company until he retires on pension, it is added to his retirement allowance. This plan goes into effect Jan. 1, 1931, if the employees desire it. It will be interesting to see what reaction this received.

These are definite, specific things that the Company has done, first to stabilize and second to ameliorate the tragic effect of unemployment. We are now in a situation where things must be done on a broader scale than this. The effect of unemployment is chaotic, things that are being made to relieve distress and to avoid and ameliorate these things in the future are having and should have very general support.

VEHICULAR TUNNEL PROPOSED FOR LOS ANGELES

Tentative plans for a proposed vehicular tunnel under Cerritos channel, connecting Terminal Island with the mainland, have been submitted to the Los Angeles board of harbor commissioners. The plans were prepared by George F. Nicholson, harbor engineer, and provide for a concrete tube 5,375 ft long. The estimated cost is \$2,500,000. The tunnel would relieve motor car and truck traffic congestion in the harbor area. The height of the tube would be 40 ft and the width 38 ft. Plans are for a two-way, 35 ft roadway in the center, with sidewalks on either side. A bascule bridge now carries traffic across the channel, and this bridge would be retained for rail-road traffic.

LEGAL DECISIONS AFFECTING HIGHWAY CONTRACTORS REVIEWED

When the Creator made the world he did not stop to equip it with highways and litigation has followed the course of highway construction, according to J. F. Ingham, professor of construction law and evidence at Dickinson College, in a report to the American Road Builders' Association. Take, for instance, the seven decisions published herewith.—Editor.

Surety Bond—A case of great interest to contractors and material men is *Greene County vs. Southern Surety Company 292 Pa. 304*, in which the court decided that the surety company was not responsible for claims made for the labor and material furnished in the construction of a highway by the county. The decision in this case was based principally upon the wording of the bond of the company, which indicated in the opinion of the supreme court that there was no intention expressed in the bond that it should be for the benefit of any other than the county. The creditors were regarded as third persons, not parties to the contract, and the bond could not inure to their benefit.

Misrepresentation—Another case involving the contract phase of highway law is that of *Jackson vs. State, 295 N. Y. 658*, in which the withholding of a material fact, amounting to a misrepresentation on the part of the state, entitled the contractor to damages.

The state let a contract for the excavation of a portion of a canal. Borings had been made by the state, and in giving the information to the bidders the material was actually made of certain kinds and classes, easy to excavate. At the time of the making of the contract the state had other information classifying the material as being a compacted mass of hard-pan, much more expensive to excavate.

The court said: "A party to a contract cannot by misrepresentation of a material fact, induce the other party to enter the contract or incur his damage, and then protect himself from the legal effect of such misrepresentation by inserting in the contract a clause to the effect that he is not to be held liable for the misrepresentation which induced the other party to enter into the contract. The effect of misrepresentation and fraud cannot be thus easily avoided. If it could be, the implied covenant of good faith and fair dealing, existing in every contract, would cease to exist."

Labor—Matters of great import to those interested in the "open shop" theory of labor are those treated in the report of *William M. Cannon, Esq.*, referee, made October 30, 1929, to the U. S. District Court for the Southern District of New York, in the case of *Levering and Garrigues Co. vs. Paul J. Morris, Judge Cannon decreed*: "The defendants (members of voluntary labor organization) should be permanently restrained and enjoined from inducing, or attempting to induce, owners, architects or general contractors to let no subcontract to the plaintiffs for the erection of structural iron and steel in buildings now being or to be erected in the Metropolitan District of New York by sending them circulars or other writing stating threatening warning or intimating that members of the unions associated with the international may or will refuse to work on buildings upon which plaintiffs have subcontracts or by sympathetic strikes," etc.

Other cases of interest are: *Aeolian*

Company vs. Fisher, 35 Fed. (2d) 34, Collective refusal of local workmen to work with non-union workmen employed in installing goods shipped into state is not a violation of the Sherman Anti-Trust Act.

Alco-Zanders Company vs. Amalgamated, 35 Fed. (2d) 263: Labor organization procuring strikes in non-union plants to stop production and prevent completion in other states constitutes restrainable violation of Sherman Anti-Trust Act.

Liability for injuries—Appeal of the *City of Erie, 147 Atl. 58*: City overlooking work of sewer contractor was liable for injuries to pedestrian falling into open trench which city failed to properly safeguard. It can not escape liability by placing work in charge of an independent contractor.

McCrory Company vs. White Coal Power Company, 35 Fed. (2d) 142: Contractor constructing water works for town on cost plus basis, and having supervision over work, is an independent contractor and the town is not liable for his negligence.

Defects in Design and Workmanship—*Tooker vs. Lonky, 147, Atl. 445*: Independent contractor is liable in exoneration of employer only for defects in doing work, not for defect in design. (Excavation causing collapse of adjoining building).

Falkinburg vs. Venango Township, 147 Atl. 62: There is a rebuttable presumption that the township supervisors have properly performed their duties and taken steps necessary to give validity to their official acts.

Power to Contract—*Foreman vs. Gregg Township, 147 Atl. 64*: A township contract for the purchase of road machinery must be approved by an officer of the state highway department before it is actually binding in law. Contract was invalid because approval was not obtained and, therefore, could not be enforced. One dealing with officials of a quasi-municipality must take notice of its limited powers to contract.

Strauss and Company vs. Berman, 147 Atl. 85: One who signs acceptance of a proposition submitted to him individually by a contractor is held individually liable therefor although he wrote in the name of the corporation.

Fidelity and Deposit Company vs. Wheeler, 34 Fed. (2d) 892: Agreement by creditor to hold surety harmless from all claims arising under surety bond in consideration of surety paying creditor stipulated sum and waiving all claims for reimbursement is valid and enforceable, and the one promise is consideration for the other. Completion of the Specification in *Layne-Bowler Company vs. Glenwood 34 Fed. (2d) 889*: Where the contract set no date for final completion, but the bond stipulated against suit on the contract after a date certain in the two will be construed together, and the contractor who breaches the contract is estopped to claim the right to continue work after such date.

The Division of Simplified Practice of the Bureau of Standards, Department of Commerce, announces that Simplified Practice Recommendation No. 57—Wrought-Iron and Wrought-Steel Pipe, Valves, and Fittings has been reaffirmed by the standing committee of the industry, without change in the text.

A survey of the 1929 production of this product, conducted prior to the revision meeting, indicated the degree of adherence to the recommendation to be approximately 98 per cent.

THE OBSERVER

What He Hears and Sees on His Rounds

Formation of a federation seeking closer co-operation among the clay products industries was suggested at the annual meeting of the American Face Brick Association by O. W. Renkert of the Metropolitan Paving Brick Company of Canton, Ohio. Renkert urged selection of a strong leader at the head of such a federation, but with the various groups retaining their own organizations to handle their special problems. The membership committee authorized the appointment of a committee to give the matter further consideration.

California continues to hold her own in building operations. According to figures compiled by S. W. Straus & Co., this state continues to hold second place among the twelve leading states in the Union. Herewith are published statistics from the twelve leading states, the figures being based on building permits granted:

	No. of Places	Reported	Est. Cost
New York	48	148,683,299	
California	67	10,545,583	
Massachusetts	29	7,822,664	
Ohio	37	6,839,252	
Illinois	51	6,187,300	
New Jersey	36	5,660,327	
Pennsylvania	31	5,552,059	
Michigan	22	5,013,071	
Texas	21	3,914,309	
Washington	12	3,758,815	
Wisconsin	20	3,095,922	
Connecticut	20	2,344,378	

A system of licensing contractors as a means of promoting safety on construction operations was advocated by Frances Perkins, industrial commissioner of New York, at the 14th annual safety conference of that state. In her address she said: "We have excellent results from certain large contractors who have organized accident prevention and have obtained success as great as any industry, but the accident rate among the fly-by-night building contractors is so horrifying high as to necessitate some immediate and vigorous steps to stem the toll of life. Irresponsibility is rife among certain contractors and the only obvious remedy is a system of licensing whereby no contractor would be allowed to operate without showing that he is able to protect the lives of his workers adequately. The doctor must be licensed, and so must the hair dresser, the manicurist, the chiropodist. No matter if his work only concerns individuals or scanties must be licensed, and he should be. Yet a man is permitted to engage in the highly dangerous project of running up skyscrapers, to hire dozens or hundreds of workmen, and he need have no license at all."

When dinner time comes around in these modern times, does mother put on her hat, grab the children and meet papa for a table d'hôte instead of putting the potatoes on to boil at home?

Yes, the National Restaurant Association is reported as saying. Everyone is eating where a check comes with the dessert, and only 20 per cent of all apartment buildings have kitchens or kitchens.

No, says the National Association of Real Estate Boards, 20,000 apartments in 26 representative cities show only

36 units without kitchens or kitchenettes, and if they rent 'em, they use them because they cost more "with" than "without."

The estimated cost of the Boulder dam, reservoir and power house is \$19,900,000, according to information given out by the Department of the Interior. This work is to be let in a single contract and on account of its magnitude, a Washington dispatch says, only four or five contracting firms in the country can bid on it. It will be surprising, however, says Southwest Builder and Contractor, if a larger number of bids are not received, since combination of large firms interested in different parts of the work and capable of qualifying may be formed to submit proposals. Reports indicate that negotiations for a number of such combinations have been in progress, with indications that they will be successfully arranged.

This California case is probably good law in many states. Wm. Douglas, M. D. Haubert and Theodore Citizen, partners, were engaged in roofing a dwelling house in San Diego, Calif., by use of waterproof paper and melted tar. A vat in which the tar was heated was left in the street against the curb in front of the house undergoing construction, with the tongue of the vehicle resting on a sand pile. Soon after the employees left work the plaintiff's son, 7 years old, stepped upon the vat platform and began stirring the tar with a stick which had been left projecting from the vat. His weight upset the vehicle, causing the tar to be poured over him.

The California Supreme Court sustained the jury's decision of the lower court: that the vehicle, considering its position, was an attractive nuisance to children and that the defendants were liable for the death of the child. *Morse v. Douglas*, July, 1930, California.

Rejection of bids on laying of water mains by the water board of Grant's Pass, Ore., so that the contract might be awarded to a local contractor, was protested by Portland Chapter, Associated General Contractors, as unfair to publicly invited outside bidders on the ground that they were put to an unnecessary and expensive estimate of the cost of the work. While the law requires advertising for bids on all important public work done by contract, and they may not be legally restricted to contractors of any locality, outside contractors should be advised in some way of the situation when it is known in advance that their bids will not be considered.

A fight for exclusion of Russian goods, including lumber, by legislative action during the present short session of Congress, continuance of the program for extension of big mill manufacturing and grading practices to small mills and probably formation of sales organizations to represent various small mill groups and perfection of plans for retail cooperation involving the establishment and marketing of a "quality" brand of southern pine through selected dealers, were determined on at the fall meeting of the Southern Pine Association at New Orleans according to the American Lumberman. No definite action on the proposed legislation for extension of Interstate Commerce

Commission authority to coastal shipping was taken.

Price of cement, alongside Dock, New York, was reduced 3c per barrel to \$2.40 on Nov. 13, the first price change in a year. This is the price to contractors and dealers. The dealers' price delivered on the job is \$2.10, unchanged since July. Mill prices are \$1.85 at Hudson, N. Y., and \$1.75 at Northampton, Pa., unchanged in a year.

A smaller increase in unemployment of trade union labor than usual in the first half of December is reported by the American Federation of Labor, although a general increase in the number of jobless was recorded. The report, made public by William Green, president, said the total now unemployed with estimated at 5,300,000, and that "suffering from unemployment is already intense."

A series of meetings of electrical men, representing city inspection departments, the Industrial Accident Commission, contractors, power companies, and other branches of the industry, is being held in a number of southern California cities. The object of the meetings is to acquaint those interested with the requirements of the 1930 National Electrical Code and with the Electrical Safety Orders of the Commission.

The meetings are usually held in schoolhouses, the blackboards are available, and consist primarily of a talk, illustrated by drawings on the blackboard, explaining many of the more important rules in the National Electrical Code and the corresponding requirements of the Electrical Safety Orders. The talk is given by James M. Evans, Electrical Engineer with the Board of Fire Underwriters of the Pacific. During the address those present are urged to ask questions regarding the rule under discussion at that particular time, and the variations between the Electrical Safety Order and the Code rules are explained.

The meeting is opened by the local Electrical Inspector, who explains the purposes and then follows a brief talk on first-aid methods and a demonstration of the Sauerfer, or prone press, method of artificial respiration. Mr. Evans is then introduced, and gives the illustrated talk on the Code.

The meetings are being well attended and are producing good results. The number in attendance varies from 35 to over 100. Meetings have been held recently in Riverside, Pomona, San Bernardino, Alhambra and Inglewood.

When the Board of Education of Sacramento City asked the District Attorney's office for an opinion as to whether it might favor local contractors in awarding contracts under the new bond issue, it was advised that under the state law contracts exceeding \$1000 must be let to the lowest responsible bidder, whether he is a local or outside contractor. This is an interpretation of the California school law.

Engineers and architects in Ohio have formed an organization to urge upon the new session of the legislature the enactment of a bill licensing persons practicing those professions.

Orders for the first material to be used in the construction of the transmission line to be erected by the Southern Sierras Power Co. to Boulder Dam to furnish power for its construction have been placed by the power company. These orders are for 50,000 lbs. of fabricated steel, for steel structures and deliveries are to be made at Torrance, Calif., between December 15, 1930, and March 15, 1931.

A tentative budget of \$1,000,000 for trade extension work has been set up by the executive committee of the National Lumber Manufacturers' Association. The budget is a flexible one, however, and it will be carried out only insofar as actual receipts will permit. Should they fall below the mark, reduction will be made to prevent accumulation of a deficit. Under the tentative budget allocation of funds was made for the following activities: Research, field promotion work, educational promotion, architectural promotion, lumber purchase and use specifications, cooperation with other agencies, merchandising, building code service and publicity. In the research field provision is made for laboratory work on properties of wood processing treatments and coatings, structural assemblies and emergency investigations. Nearly three million copies of the various publications issued by the association had been distributed up to October. This covers 56,000 copies of heavy timber publications, 359,000 on light frame construction, 25,000 on building and construction generally, 100,000 on building codes, 445,000 architectural, 13,000 on fabricated and industrial uses of lumber, 805,000 copies of educational, general information and wood property and treatment publications.

As a permanent measure of prevention of unemployment and for temporary relief in the present emergency, the American Construction Council, in a letter to the governor of each state and mayors of cities of more than 100,000 population, urges the rebuilding of slum or obsolete tenement districts in all cities. The council believes that this is one of the greatest potential fields of building construction for the coming decade and should furnish many billions of dollars of new construction and employment to thousands of workers, as well as invaluable social benefits. The letters carry the warning that certain safeguards and standards must be provided, including proper regional planning, possible revision of existing building codes and enactment of necessary permissive legislation.

Two new products have been added to line of waterproofings and concrete hardeners manufactured by The Master Builders Co., Cleveland, Ohio.

Brikron is an admixture for masonry which minimizes efflorescence, waterproofs the joint, protects mortar coats from fading and prevents cracks and general disintegration of the mortar joint.

Colored Metalcon is a material which when mixed with cement and troweled into freshly floated cement finish, colors, slip-proofs and waterproofs the floor. This product also provides protection from "color clouding" or soluble salts due to an ingredient known as "Omicron."

Omicron is an element discovered in the Master Builders Research Laboratories. It reduces the ratio of soluble salts in cement mixes. Omicron has been combined with a powerful stearate waterproofing to make the product Brikron.

The Pacific Telephone & Telegraph Company and associated companies report that the East Bay Division of the Central Area went through the first six months of 1930 with no lost-time accidents, and that every division has succeeded at one time or another during the year in going through a full month or longer without a lost-time accident.

R. L. Heck, building inspector of Pittsburg, Calif., has become an active member of the Pacific Coast Building Officials' Conference.

HERE—THERE

EVERYWHERE

El Segundo, Calif., and El Centro, Calif., have adopted the Uniform Building Code of the Pacific Coast Building Officials' Conference.

Hillsborough, San Mateo County, is considering the adoption of the Uniform Building Code of the Pacific Coast Building Officials' Conference. Application for active participating membership in the Conference has been made by the town through J. C. Nowell, town manager.

Ventura Chapter, Associated General Contractors, has elected the following officers to serve the coming year: President, John Crump, Ventura; vice-president, Wm. A. Hudson, Santa Paula; treasurer, A. Schroeder, Oxnard; secretary, E. E. Wilker, Ventura; additional directors, W. R. Guyer, Oxnard; Ed Ablanah, Oxnard; B. Frank Barr, Ventura; A. A. Lowdermilk, Ventura.

The Nail Department of the American Steel and Wire Company at its Farrell Works believes that it has shattered all safety records. This department was continuing a record of no lost-time accidents since April 17, 1924, a six-year period. In that time an average force of 170 employees had worked a total of 1,566,910 man-hours.

A large construction program has been sanctioned by Austria, which will be financed by the International loan recently obtained. The program includes a hydro-electric power plant on the Danube near Persenburg to develop ultimately 110,000-hp.; a new bridge across the Danube near Ybbs, and a new electric railway line crossing Austria from north to south from Gemund to Graz, to cost approximately \$18,000,000 and including 26 tunnels through the Alps.

Restrictions on the use of water have gone into effect in Baltimore, Md., but 100 days' supply in the reservoir. A number of smaller Maryland cities have been restricting consumption for months, their water supplies affected by the drought.

The Chicago city council by a vote of 49 to 1, passed the ordinance for the construction of a subway in State Street to cost \$16,000,000. The measure was passed over the protest of a large number of property owners who urged changes in the plans. The council's action will cause a contest in the courts, it is expected, by the property owners, who, by the terms of the measure, are to pay 65 per cent of the cost of the subway.

In a decision handed down Dec. 15 the U. S. Supreme Court upheld the action of the District Court for the Western District of Washington in declaring void the patent held by the Concrete Mixing and Conveying Co., Chicago, Ill., covering the conveying of concrete by compressed air.

As an aid in the selection of heavy-duty engines and power units, the Hercules Motors Corp., Canton, Ohio, has issued two new bulletins containing advice as to the selection of the two types of Hercules power plant for any given requirement. One of these contains specifications and illustrations of typical motor applications; the second consists of a series of charts of motor characteristics.

ALONG THE LINE

Hugh R. Davies has been elected president of the Long Beach Architectural Club; Cecil Schilling, vice-president and Joseph H. Roberts, secretary-treasurer.

The Long Beach Architectural Club has appointed a committee consisting of Cecil Schilling, H. A. Anderson, and Warren Derlick to lead a group advertising to inform the public of the activities and purposes of the architectural profession.

D. W. Pontius, president of the Pacific Electric Railway Company, has been appointed controller of the Metropolitan Water District of Southern California. He has accepted the office with the understanding that full-time salary will be provided as soon as the permanent organization of the district is effected.

James F. Collins, director of the Department of Professional and Vocational Standards and Registrar of Contractors, has tendered his resignation to Governor-elect Rolph, effective January 5. He expects to resume the practice of civil engineering in which he was engaged previous to his appointment to the position.

Russell G. Cone, who was resident engineer during the construction of the Philadelphia-Camden Bridge and of the Ambassador Bridge at Detroit, has been retained as resident engineer to take charge of work in the field when construction of the Golden Gate Bridge at the mouth of San Francisco Bay is started.

Star Brick and Tile Co., Ltd., capitalized for \$250,000, has been incorporated in Los Angeles. Directors are W. and John and Marion Graniczny, all of Los Angeles.

In future all new road construction in Santa Barbara County will be done by contract, as announced by the county supervisors, following a conference with leaders of the California Branch of the Associated General Contractors of America. Much highway work by day labor has been done by Santa Barbara county for some time and contractors through investigations of the cost of the jobs and the time required to complete them showed that contract work was more economical to the public.

The law in California in regard to labor work is that on all jobs costing more than \$5,000 an accurate cost accounting must be kept of the day labor expenses which must be kept and filed with the lowest bid received for the project for permanent record. In the course of its investigations of the practices of the Santa Barbara officials, the Southern California Chapter of the Associated General Contractors found that on several jobs no such records were kept and that in some cases bids were not even asked. Much publicity was given to these findings and the supervisors requested the conference for determining future practice in regard to the county's road building.

Intercoastal lumber shipping rates will not be lower than a rate of \$11 on contract lumber and \$13 for non-contract lumber is announced by the U. S. Intercoastal Lumber Conference for February on shipments of lumber from the Pacific northwest to the Atlantic coast.

OAK FLOORING GRADE NAMES ARE CHANGED JANUARY 1

A change in the grade names of oak flooring is announced by the Oak Flooring Manufacturers' Association of the United States, from the executive offices in Memphis, to go into effect on January 1, 1931.

The new grade names will be known as follows:

Quarter sawed (three grades), Clear, Sap Clear, Select.

Plain sawed (four grades), Clear Select, No. 1 Common, No. 2 Common.

The change in names was decided recently by the entire oak flooring industry in view of the trend toward designations that will be more fully descriptive of the special qualities and particular uses of various grades of lumber. The tendency, it is stated, is to specify grades which are especially adapted for a given purpose, irrespective of a former formal position as "higher" or "lower" grade. The grade names of Oak flooring now follow this new trend toward simplification of practice.

The Association announces that there has been no change in the wording of the present grading rules otherwise. A new edition of "Oak Flooring Grading Rules" is now ready for distribution to the trade and to architects.

CONFERENCE ACTION EXPECTED IN JANUARY

Deferment of the launching of activities by the National Conference on Construction till some time in January 1931 is announced by Julius H. Barnes, chairman of its executive committee and chairman of the Board of Directors of the U. S. Chamber of Commerce. The National Conference on Construction was formed in Chicago July 30 under the auspices of the U. S. Chamber of Commerce and appointed its executive committee late in October.

The November and December dates contemplated for the first meeting of the executive committee of the conference of representatives of all major branches of the industry have been postponed. It has appeared to Chairman Lamont, Secretary of Commerce, and to Mr. Barnes advisable to avoid any confusion which a meeting of the executive committee might have as to the relation of the work of the National Conference on Construction to the emergency work which is being given renewed impetus through the President's Emergency Committee for Employment.

The field of usefulness of the National Conference on Construction is seen to lie primarily in activities of a continuing character on some of the long-time problems of the construction industry. A date has been tentatively suggested for holding the first meeting of the executive committee during the week of January 12.

POWDER COMPANY EXPANDS

An enlarged field for the Giant Powder Company near Richmond was announced by Manager Richard Stratton upon his return from Seattle, where he went to take over the plant of the Puget Sound & Alaska Powder Company just purchased by the Atlas Powder Company, the parent company of the Giant corporation.

Under the new plan the plant at Everett will be dismantled and the northwestern country, formerly served by the products of the Everett mill, will be supplied from the Richmond plant of the Atlas-Giant Company.

1930 BUILDING IN LOS ANGELES NEAR \$75,000,000

Indications are that Los Angeles' building total for the year 1930 will be close to \$74,000,000 as compared with \$93,016,160 for 1929.

During the first 17 days of December, 1930, the city building department issued 1396 permits with an estimated valuation of \$2,781,101. For the corresponding period in December a year ago the number of permits issued was 1420 with an estimated valuation of \$2,457,707, while for the first 17 days of November, 1930, the number of permits issued was 1284 with an estimated valuation of \$2,792,248. For the current year up to and including December 17, Los Angeles' building total was \$71,586,591 as compared with \$91,483,408 for the corresponding period in 1929. Permits for two important building projects will probably be issued before the close of the year and with a fair average of minor operations the total for the year should be close to \$74,000,000.

TIME TO GET UP! SIX O'CLOCK

(By Tony Smith)

I have stood it for a year. I don't want to hear or see any more creaking, whinnying and cowardly gloom spreading salesmen reminiscing about the "good old times." I have been through three or four "panics", as they call the mania for company, and one gets bored with "old stuff." If you are a salesman beating the sleepy field to it, I want to see you. I am fed up on last night's night-mares. It's time to wake up to realities. So come in if you are doing business, but stay out if you are lecturing on what's wrong with business, life and the universe, especially as your judgment is not worth a damn.

Next to the gloom spreading, migrating salesman, I am sick of the timid and play safe buyer, the wisacre buyer who clutches the dollar as his last and looks for fools to give him more. Damned streams turn no wheels until the water flows. Spend bravely and wisely and it will come back to you; save foolishly and in fear and you will soon get nothing to save. I don't want any man's money in business who buys fearfully. I don't like to take candy from the baby nor do I trust such a man in credit. Saving in fear is miserly, selfish and cowardly. Saving a percentage is wise and thrifty; the greatest savings can be done during prosperity, the least during deflation. The best time to buy is at or near the bottom.

It's about six o'clock in the morning now and time to get up. The salesman who gets busy now beats the field to it. The buyer now gets in on the ground floor. No man should buy just to make prosperity, he should buy now if he expects to buy later. Buying keeps up the exchange of goods and makes work. Last night you slept well or had bad dreams but it is six o'clock now, time to get up and time to snap out of the fear complex.

J. J. Mahony, city clerk of St. Johns Newfoundland, has requested the Pacific Coast Building Officials' Conference for a copy of the Uniform Building Code. The city, of about 40,000 population, contemplates a new building code and it is possible the Pacific Coast code will be adopted.

BUILDING HEIGHT LIMIT IS PLAN OF LOS ANGELES CO.

Terminating a series of public hearings on the question of limiting the height of buildings in unincorporated territory of Los Angeles county, the Regional Planning Commission at a meeting December 17 adopted the following regulations which will be submitted to the board of supervisors in an ordinance to be drafted by the commission:

"No building shall be erected in the unincorporated territory of the county of Los Angeles which exceeds a height of 150 feet from the curb level or contains more than thirteen floors, or the cubical content of which exceeds 125 times the area of the site upon which the building is to be erected.

"Provided:

"(1) That if the owner shall dedicate for light and air purposes a setback on all sides of the site upon which the building is to be erected of not less than twenty feet, a building of greater height may be erected.

"(2) That any portion of such building erected to a height of greater than 100 feet shall be setback on all sides of the site upon which a building to be erected of not less than thirty-five feet.

"(3) That where a dedicated alley exists the twenty-foot setback may be measured from the center of the alley and that no further setback above 160 feet on that side of the building facing such alley shall be required.

"That no portion of any building site included in the calculations of the volume of a building erected under the provisions of this ordinance and upon which a dedication for light and air has been accepted in accordance with this ordinance may be included as a portion of any other building site for the purpose of determining the maximum cubical content thereof."

WAGE VIOLATOR IS FOUND GUILTY

Roy E. Andrus, operator of the Lorraine Lumber Company, was found guilty last week at Tahoe City on three counts of violations of the state labor laws. On the first count, failure to maintain semi-monthly paydays, Andrus was sentenced to pay a \$50 fine or serve a twenty-day jail sentence.

If Andrus meets the terms the sentence on the second and third counts will be suspended. The second count, his failure to post notice of semi-monthly paydays, brought a fine of \$50 or twenty days. Suspension was ordered if Andrus abides by the law in the future.

The third count was his failure to pay R. Schurman, an employe, his wages. He paid the wages, \$145, in the court. Andrus was given ten days in which to pay his fine on the first count.

It has been estimated by the Travelers Insurance Company that industrial accidents cost five billion dollars annually and constitutes a tax of 11 percent on the income of the salaried worker.

INCORPORATES

C. S. Maltby Magneste Co., Ltd., capitalized for \$2000 has been incorporated with the principal place of business in San Francisco. Directors are Mabel P. Maltby, Katherine Percy and H. W. Erskine.

SETTLEMENT OF JURISDICTIONAL DISPUTES BY BOARD IS RATIFIED

Procedure for the Joint settlement of Jurisdictional disputes by organized building crafts and the National Association of Building Trades Employers was agreed upon and ratified in Boston at the meeting of the Building Trades Department of the American Federation of Labor, says The Constructor. This procedure involves the formation of a Board of Trade Claims organized on a basis which, it is believed by its proponents, will aid in the settlement of jurisdictional disputes on both a local and national scale.

Unlike the National Board for Jurisdictional Awards, the Board of Trade Claims is to represent only the National Association of Building Trades Employers and such international unions as subscribe to the new board. The contract between these bodies which provides for the Board of Trade Claims will run until December 31, 1932.

Among the outstanding features of the procedure which has been agreed upon are the following:

Jurisdictional disputes originating in a community may be settled by the existing local joint arbitration boards that function by agreement between local associations of contractors affiliated with the National Association of Building Trades Employers and the local building trades council. Settlements reached by such local arbitration boards will be binding as concerns any particular disputes in that

community.

If a dispute is not settled locally the case may be carried to the Board of Trade Claims which will select a special arbitration committee to pass on the case and provide a ruling to apply to the dispute originating in that particular community.

The new agreement, it is understood likewise provides that if a local union refuses to abide by a decision, the international union shall furnish skilled men within 48 hours to do the work. If the international fails to do this the employer is at liberty to fill the places of such men as have been called on jurisdictional strike with members of other unions who, in the employer's opinion, can perform the work.

While the formation of this board is seen by general contractors to be an important step toward the eventual solution of jurisdictional problems, its immediate effect is somewhat limited. Two important international unions, namely, the bricklayers and the carpenters, are not now affiliated with the Building Trades Department and therefore may not at once be particularly affected by the procedure. In addition, the International Brotherhood of Electrical Workers expressed doubts as to the plan for settling jurisdictional matters but expects to maintain its affiliation with the Building Trades Department and postpone judgment on the plan until it has had a fair trial.

BRIDGE FRANCHISE PEDDLING IS CONDEMNED BY ENGINEERS

Adoption by Congress of a new bridge law "so framed as to prevent the nefarious practice known as bridge franchise peddling" urged by the American Engineering Council, acting upon recommendations in a report of its Committee on Bridge Legislation, of which Herbert S. Crocker of Denver, Colo., is chairman. Hundreds of millions of dollars are invested in toll bridges, and it is now no longer uncommon for a bridge to cost from \$1,000,000 to \$50,000,000, the Council points out.

"The present system of granting bridge franchises is the outgrowth of a haphazard evolution of methods applicable before the advent of motor transportation and various improved highways," the report declared. "It involves a great waste of time and does not in many ways protect either the interest of the public or the investments of those who build the bridges."

"There are in existence abuses of the present system, notably the obtaining from Congress of franchises for the sole purpose of their exploitation and sale at inflated values. The processes and restrictions upon recapture should be thoroughly aired and reduced to a working basis fair to all concerned."

There should be a greater and more definite measure of cooperation than now exists between the various agencies of administration. The existing bridge laws can be very much simplified and made more easily workable."

The Engineering Council opposes all pending legislation, which unless radically altered, it asserts, would be positively injurious. Its opposition centers on the Denison bill, introduced in Congress by the chairman of the subcommittee on Bridges of the House Interstate and Foreign Commerce Committee.

This measure, the engineers feel, confers too much authority on the State departments and contains a recapture clause which is unusually severe and which in operation would undoubtedly prevent the financing of privately owned toll bridges.

Private capital should be encouraged to construct toll bridges, says the Council in a statement of principles to be considered in framing new legislation. A toll bridge, it holds, should be permitted only where the local authorities are on record as not willing to construct a free bridge.

A clause permitting recapture not sooner than twenty years after the completion of the bridge is favored, and unreasonable limitations upon financing, design, construction and maintenance are opposed.

"It is becoming increasingly difficult for states to find ways of financing such structures," it is added. "Hence privately owned toll bridges are meeting a great need. However, such structures may be considered public utilities, and as such ought to be under public regulation like other public utilities. This is not now generally the case."

"Tolls charged may become a burden to interstate commerce. Therefore the construction of toll bridges must be subject to at least some supervisory and regulation of the Federal Government."

"Under Congressional authorization, the owner of a toll bridge is given no protection against unfair competition. There are examples where competing bridges have been constructed which were unnecessary and economically unjustified. There is something wrong with a system which permits toll charges based upon inflated valuation. Toll bridge companies have in recapture demanded prices far in ex-

cess of the cost of the bridges built by them.

"State highway authorities and toll bridge companies have come to cross purposes in respect to the location of roads and possible competing free bridges. At present, the Engineer Corps, U. S. A., cannot ascertain the cost of toll bridges until many days after the completion of the bridge. It is then frequently too late to discover any discrepancies in cost figures."

"There are in the United States today in operation approximately 300 toll bridges. There are now under construction about 58 toll bridges and approximately 350 proposed; of these latter a very small percentage will materialize. This is largely due to the present economic conditions and to the difficulties of financing in the face of adverse legislation threatened by Congress."

"The American public does not like to pay a direct toll for the use of such a public convenience as a bridge and there are a number of Congressmen who try to prevent the authority for toll bridges. This attitude is assumed in spite of the fact that although our roads appear to be free, almost every state levies a gasoline tax which is used for construction and maintenance of roads so that every road user in a sense pays about one-half cent per mile for the use of the roads."

"Furthermore, were it not for the use of toll bridges in many cases, the old inefficient, unsafe and slow ferries would still be in use for which a toll was always charged. In this connection it may be noted that the advocates of free bridges are strangely silent in regard to these ferries."

There are cases on record of the exploitation of permits to build toll bridges. The cost of construction and financing of such bridges has been in some cases watered or inflated. This has made the cost excessive to the public when it has desired to purchase such bridges. These circumstances have led to discontent and dissatisfaction with the present toll bridge situation. This must be corrected."

Other members of the Engineering Council Committee on Bridge Legislation are: V. H. Cochrane, Tulsa; Prof. A. H. Fuller, Iowa State College; A. P. Greenfelder, St. Louis; Frank M. Gunby, Boston; John Lyle Harrington, Kansas City, Mo.; David B. Steinman, New York City.

GROUND WATER IN THE MOKELUMNE AREA

The ground-water supply of the Mokelumne area, California, has been under investigation since 1926 by the Geological Survey, United States Department of the Interior. Lodi is the principal town in the area, is said to be the Tokay grape center of the world. The broad vineyards and orchards of this productive agricultural area are supplied chiefly by water pumped from wells. A report on this investigation was made available to the public in September, 1929, by filing a manuscript copy in the Lodi Public Library. This report was published by the United States Government in March, 1930, as Water-Supply Paper 619 of the Geological Survey. On account of the great value of the ground-water supply for this area, the investigation is being continued, and the results are released to the public from time to time in the form of progress reports that are filed in the Lodi Public Library. In accordance with this practice, a summary statement supplementary to Water-Supply Paper 619 is being filed in that library for public consultation. Additional data, largely statistical, and similarly filed at frequent intervals, as they become available and can be prepared for release.

METHODS OF ENGINEERING TEACHING TO BE CHANGED TO FIT THIS "MACHINE AGE"

A project to increase the standard of engineering education to enable it to meet better the tremendous demands which the modern machine age is making upon it has been announced by H. Hobert Porter, chairman of the Engineering Foundation, writes David Dietz, Science Editor for Scripps-Howard newspapers.

The new project unites the engineering profession, educational institutions and industrial organizations.

Porter has appointed a research committee on education, headed by Dr. Harvey N. Davis, president of Stevens Institute of Technology. The objective of this committee, according to Porter, will be to frame a program to meet the demand of industry and public service for professional education of high quality.

As a first step, the Engineering Foundation has sought the view of engineers, industrialists and educators upon the subject.

One of the first things which this committee has sought to bring to light is that technical schools were being handicapped by the fact that industries are luring away the best men from their faculties.

This was pointed out by Gen. R. I. Rees, assistant vice-president of the American Telephone & Telegraph Co., and former president of the Society for the Promotion of Engineering Education.

Right Selection

Gen. Rees points out other difficulties facing the engineering field, among them the selection of the right material for the future engineers of America.

"The mortality rate during first years in college seems to indicate that we are faced with a major problem in the right selection of candidates for the engineering student body," Gen. Rees says.

"In general, the quality of students entering the freshman year is good on the basis of scholastic achievement in secondary schools. On the other

hand, those interested in employment of engineering graduates find large numbers surviving the four strenuous years of the engineering curriculum poorly fitted to become efficient engineers.

Continual Complaint.

"There is continual complaint by deans of the lack of good engineering teachers, and responsibility is placed largely at the door of industry. Cannot we engineer societies, societies upon business and industry that it is short-sighted to attract good men away from engineering facilities and that it might be better to co-operate in encouraging good men in industry to accept positions on engineering faculties?"

F. L. Bishop, secretary of the Society for Promotion of Engineering Education, says that engineers are trained in an old system which they naturally pass on. It is highly important, he urges, to break this chain and introduce new types of training methods and new methods of teaching.

Two Facts Learned

Dr. A. B. Crawford, director of the department of personal study at Yale University, says that at Yale two facts have been learned. First, it is possible to determine by aptitude tests what students' possibilities are; second, many freshmen are debarred from courses they would like to pursue after the first year because not soon enough started in that direction, due to lack of early information.

"Engineering educators," Dr. Crawford says, "are now giving thought to the question whom they should educate and to the impartial effectiveness of objective tests.

"The fact also is being recognized that youths of 16 to 19 years, when confronted with selection of a college to follow the freshman year, have not ordinarily discovered their aptitudes in time to prepare as now required for an engineering education."

PROPOSED LEGISLATION AIMS TO BETTER BUILDING INTERESTS

By Geo. W. Israel, Secretary-Manager, Builders' Exchange of Pasadena

The Southern Conference meeting in connection with the following members of the State Legislative Committee, T. M. Robinson, Charles Pettifer, Dan Wagner, Wm. T. Loesch (W. H. George absent), together with Glen Behymer and J. W. Morin, held December 13th at the Pasadena Athletic Club, was undoubtedly one of the most important meetings the Exchanges have ever held.

At this meeting were representatives of most of the divisions of the building industry, and when the following resolution was unanimously passed, it means an unprecedented get-together of the building industry of California, and it means—

The industry as a whole will go before the next Legislature with bills which are directly in the interest of the building public as well as every division of the industry itself, for the plans as set forth are backed by only clean men and every thought profounded is strictly in the general

benefit of a better condition for the much neglected industry and its duty of the building public and buyer of building paper.

BE IT RESOLVED

That the Southern California Conference of Builders' Exchanges this day assembled at Pasadena, California, hereby endorses the program of legislation upon the subject of the principle of the proposed amendments to the Mechanic's Lien Law as drafted by Glen Behymer; the principle of the proposed amendments to the Contractors' License Law of 1929 and the principle of the proposed new statute for the Legal requirements of building finance as suggested by J. W. Morin.

Those referred to as proposed by Glen Behymer are as follows:

1. Giving concurrent jurisdiction in the Mechanic's Lien actions under \$2000 to the Superior and Municipal Courts and clearing up doubts as to necessary parties defendant where

they are holders of mortgages or deeds of trust.

2. An obligatory requirement for the withholding of building funds after the service of the stop notice, unless a bond for the protection of the laborers and material men has been furnished in response thereto.

3. The provision that bonds executed by money lenders for faithful completion should be required to inure to the laborers and material men as well.

4. The enactment of a statute permitting the financing of the property either before or after beginning construction, by the filing of a bond running to the laborers and material men in an amount equal to one-half of the face principal amount of any mortgage or deed of trust which is to be a building loan upon the property.

5. The enactment of legislation establishing, so far as possible, the principle that a building loan is a trust fund applicable to the completion of the building and the payment of laborers and material men involved therein, and all building loans to maintain priority shall be accompanied by a recorded bond inuring to laborers and material men for an amount equal to one-half of the face of said loan.

With reference to the proposed amendments of the Contractors' License Law of 1929, by J. W. Morin.

1. The elimination of the \$200 exemption clause.

2. The regulation of speculative builders by requiring a license as builders.

3. Increasing the license fee to \$10.

4. Providing for the retention of the funds on hand at the end of the fiscal year in the department.

5. Defining "contractor" as one who bids as well as one who contracts.

6. Giving authority to the registrar to make available the list of licenses at regular intervals for the information of officials and the public.

7. Placing under Civil Service regulations the employees of the department.

8. Providing for due process of law in the hearing of causes by issuance of suitable notice to the accused and for authority of the registrar to subpoena witnesses.

9. Providing penalty for advertising or claiming to be a contractor with a license.

10. Providing for the keeping of true books of account.

11. Providing for bringing within the terms of the statute, those who aid and abet a contractor in violation of the law, under the head of conspiracy.

12. Giving the authority to the registrar to accumulate statistical information as a preliminary to the issuance of licenses.

13. The enactment of the "Notice of Intention to Build" Law, requiring owners before the beginning of construction to record a verified statement of the ownership and encumbrances and a statement of proposed disposition of the proceeds of the encumbrances.

That this conference go on record as endorsing the work of the State Builders' Exchange Legislative Committee, and recommend that they be given full power to carry on, in connection with J. W. Morin and Glen Behymer and such other parties in connection as may be determined by said J. W. Morin and Glen Behymer in bringing the many diversified divisions of the building industry into a unified legislative program for the next Legislature.

RESULTS AND BENEFITS OF APPLYING SIMPLIFIED PRACTICE TO SOFTWOOD LUMBER INDUSTRY

The application of the simplified practice recommendation on softwood lumber is resulting in a reduction of manufacturing costs, and in inventories, and less warehousing and storage space is required. Also it makes for more uniform lumber which minimizes the number of errors made in ordering and shipping. Deliveries are also expedited. All of which leads to more satisfactory business relations and to a greater stability of the industry, according to an article entitled "Benefits From Simplified Practices of Softwood Lumber," by J. F. McNeil of the Division of Simplified Practice of the Bureau of Standards, Department of Commerce, appearing in the November, 1929 issue of the Commercial Standards Monthly. This article is based on the findings of a survey recently conducted among the accepters of this recommendation.

"The manufacture of lumber was one of the earliest, if not the first industry, to be started in this country. The colonists were obliged to erect cabins for shelter and stockades for protection against onslaughts of wild marauders. It was also necessary for them to fell timber before they could cultivate the land. Spars, masts, and other ship timbers were exported even before many of the early agricultural products.

"During the era of colonization and on through the formative stage of the union, the manufacture of lumber was comparatively simple. Trees were felled as needed, sawed and hewn by hand into rough logs, and the local sawmills began to make their appearance in the year 1625 when one was erected in Virginia. These mills, however, were an unimportant factor until the advent of steam, early in the 19th century.

"As the industry grew not unlike many other industries, it became hampered by the accumulation of an enormous number of sizes, grades and classifications which varied with each producing locality. The confusion was corrected locally by regional associations which drafted rules governing manufacture within specific areas. While the work of these associations, in this respect, was commendable and of much use in its limited sphere, nationally, the conflict of the sizes, grades and classifications became more and more vexatious, mainly because of the disadvertisements encountered in using lumber which was manufactured in various sections of the country.

"The present national lumber standardization movement had its inception at the first American Lumber Congress, held in April, 1919, where a resolution was passed favoring the unification of sizes of all softwood lumber. In June of that year, and in September, 1920, other meetings of representatives of the industry were held and much discussion was had on the subject of standard sizes, grades, forms and nomenclature. Plans for future work were also outlined.

"In May, 1922 one hundred and ten representatives of organizations of all interests met in general conference at Washington, D. C., under the auspices of the division of simplified practice of the National Bureau of Standards. The principal action of this meeting was the appointment of sub-committees whose duty it was to formulate the necessary standards in sizes and grades, and the methods of interpreting, applying and enforcing them.

"A second general conference was held in Chicago, Ill., in July, 1922. Here, the Central Committee on Lumber Standards was created, its membership being composed of representatives of lumber manufacturers, wholesalers and retailers associations, the railway associations, the American Institute of Architects, and the Association of Wood Using Industries. A consulting committee, to handle the technical phases of lumber standardization, was in turn formed by the central committee.

"The third general conference, in December, 1923, received the report of the central committee, and the meeting resulted in the approval of a simplification and standardization program which was instrumental in reducing the actual finished yard lumber items approximately 60 per cent.

"In accordance with the usual procedure of the National Bureau of Standards, simplified practice recommendations are subjected to review procedure tends to sustain continued periodically, either by the standing committee of the industry or by subsequent general conferences. This interest and adherence to the program, and to keep it abreast with current practice. Four such general conferences have been held since the original simplification program on lumber was approved and accepted, the last taking place on May 3, 1928.

"The work of the committee at this conference marked the completion of their original plan concerning the simplification and standardization of softwood lumber. It now remains to keep these recommendations current by means of the aforesaid procedure of the Bureau.

"Simplified Practice Recommendation No. R16—Lumber (Fourth Edition), including recommendations for recognized classifications, nomenclature, basic grades, seasoning standards, sizes, uniform workings, description, measurement, tally, tally cards, shipping provisions, grade marking, and inspection.

"At the time of the last conference, it was estimated by the industry that 80 per cent of the softwood lumber in the United States was being manufactured in accordance with the American Lumber Standards. In 1925, it was estimated by responsible members of the industry that the waste eliminated by this simplification and standardization program exceeded \$200,000,000 per year.

"To ascertain the practical effect of the application of these recommendations, letters of inquiry, recently were addressed to all acceptors and to several hundred mills located in all parts of the country. The following are excerpts from the replies:

"We have made an appreciable saving through grade marking our stock," wrote one midwestern manufacturer, "and this has saved us somewhere between \$4,000.00 and \$5,000.00 per year on claims."

"Another manufacturer in the same locality said: 'It increases the productive capacity of employees and reduces warehousing and storage space requirements.'

"The sales manager of a mill on the west coast replied: 'As American Lumber Standards, as provided in (Simplified Practice Recommendation) R16's have effected economies both to the manufacturer and to the distributor, without working any hardship on the consumer, it is highly logical to assume that they will soon be accepted one hundred per cent.

This has shown a saving to us, perhaps, of \$4,000.00 in our operations last year.'

"We note a steady increase in the demand for standard items, which enables us to reduce our manufacturing costs, inventories, etc., considerably," stated the general manager of another plant.

"Our saving has been chiefly in decreasing the amount of degrade formerly secured on account of stock being too thin or dress to the former standard thickness, and also the increased underweights resulting from the thinner net thickness," said another manufacturer. He further states: 'We would estimate such savings as being about \$5,000.00 per year. We might add that all such saving has been passed on to the consumer in the way of lower prices.'

"As to the benefits which accrue to consumers, the secretary of a water users association replied: 'We have found that standard grading rules make for more uniform lumber; standard nomenclature avoids mistakes in ordering and shipping; simplified practice gives the buyer knowledge of what he can expect to find in stock for immediate shipment; it tends to lower prices by requiring a smaller amount of equipment to manufacture and by having stock in fewer sizes. We are engaged in cataloging all of the material which we use, and simplified practice recommendations certainly simplify cataloging.'

"A roof contractor engaged in business in the City of New York was: 'We derived the following benefits: Better value for the money, and a greater protection against unscrupulous traders.'

"A member of a firm of engineers and architects said: 'We believe that this work has been of definite benefit through reduction in cost of materials and greater speed in deliveries.'

"The interest shown in the foregoing replies indicates that much benefit, tangible in its nature, is being derived alike by the manufacturer, distributor and consumer."

San Jose's \$1,000,000 school building program, now well under way, is providing employment for a large body of local mechanics and laborers. It is estimated that perhaps 300 to 400 men are being given employment now when jobs are scarce. A survey of the jobs under way indicate that almost without exception the work on every school job is being done by local workers. In fact, on some of the school jobs there is a standing order that none but local men shall be employed, the preference being given married men with families.

Silver Lake Blvd., in Los Angeles, will be paved on a 44-foot roadway where there is no existing pavement, between Glendale Blvd. and Virgil Ave. at no cost to the property owners, according to a condition imposed by the city council in ordering proceedings for the improvement. This project has long been the subject of controversy. Opening and widening proceedings for this important traffic artery, a cost of \$21,111 to the property owners are now nearing conclusion. Cost of the paving is estimated at \$207,000, of which amount \$100,000 will be paid by the county and the balance by the city of Los Angeles.

This life is nothing more or less Than little acts of kindness; A good word here, a service there, To lift from mankind some great care. So let us daily, thoughtfully Pursue our way rejoicingly; For I'll help you and you'll help me And this a happy world will be. Begin it now and carry on, So when the year is past and gone In Meditation you can smile, For Living's really been worth while.

NEW FORM OF CONSTRUCTION FOR APARTMENT HOUSE WALLS

A radical departure from standard construction for apartment partition walls, involving a more effective use of lumber, has been developed in the offices of Schack and Young, architects and engineers of Seattle, and is being used for the first time in the apartment under construction in Seattle, according to the West Coast Lumbermen's Association.

The interesting departure from standard practice lies in the fact that the partition lumber is cut to length and first used as forms for concrete construction. It therefore never leaves the location in which it is first carried as an auxiliary construction material and is finally set up for permanent construction.

The construction involves the use of 2x6 tongued and grooved Douglas fir lumber, first using it as shoring, bracing, stringers and soffit boards for reinforced concrete construction and later taken down and built into a mill construction partition. The great bulk of this material is pre-cut to required finished lengths.

The typical partition consists of the 2x6 set up vertically, making a solid 2-inch wall. For sound resistant partitions, this wall is covered with sound resisting material on each side and plastered. For minor partitions, it may be lathed with wood lath. Where wood lath is used it is furled out by lath strips set vertically at about 16-inch centers, and the whole nailed through to the 2x6-inch core.

This construction is extremely fire resistant, there being no hollow spaces except those occasionally encountered for housing pipes or ducts and these are cut off by the fireproof floor at each floor level.

The partition is extremely resistant to sound transmission. This type of wall is thinner than standard hollow walls and effects a material saving in space.

The economic feature of this construction practice is that all of the floor formwork is used in the partitions. A single 2x6, well braced, supports an area of about 15 sq. ft. Stiffening the entire construction a row of 2x6's, doubled, is carried down the center of the span.

A great saving is found in the ease of erecting forms and taking them down with the almost total absence of waste and elimination of the labor of removing and destroying large quantities of form lumber. Labor costs are very materially reduced.

In regions where freight rates on lumber become a considerable item, it would be found economical to use the 2x6-inch material for wall forms, later using it up in the same type of partition. In the average apartment construction it will be found that with the extensive use of 2x6's in formwork, there still will remain a small deficiency in the amount of lumber required for partitions.

This form of construction is very simple. Workmen are able to go thru with the various steps in using lumber with great speed. As shoring, the 2x6's are first cut to length, then set up and braced, each upright resting on wedges for adjustment which approximate the thickness the plate to be used. The soffit boards largely consist in the main part of 2x6's cut to partition lengths and put together with temporary cleats.

When the forms are removed, the lumber is piled in positions convenient for installation in the partition walls. It has been found that forms so constructed are stiff and unyielding and that the finished soffits and ceilings are straight. Records on this building show no concrete loss usually present at the result of some deflection.

The only waste consists of the cleats and possible odd lengths, most of which are used up in the partitions over doorways and the like. When taken apart 2x6's are substantially free of nails, making the reconditioning easy and inexpensive.

When set flush in the wall position, the wall is almost air tight even before lath and plaster are applied. Space for electrical outlets and conduit are cut as required.

This type of building, which involves concrete floors with all vertical openings fireproof, and openings protected by fire doors, in conjunction with mill partitions, appears to offer a great range of usefulness. The solid partitions are incombustible and a fire would be confined to any apartment in which it started.

James H. Schack and A. M. Young, of the above firm, are members of the American Institute of Architects and Mr. Young is also a member of the American Society of Civil Engineers. Both members of the firm have a substantial record in constructive work in connection with the Building Code of the City of Seattle. Mr. Schack is at present a member of the Board of Appeals of the Building Department.

fectiveness of the sprinklers in these specific instances in bringing the fire under control without material damage to the hangar.

The findings of the Committee, eleven in number, read:

1. Slow-burning fires in well ventilated buildings with high ceilings may continue without opening automatic sprinklers.
2. Extremely fast fires in single planes may burn themselves out without opening automatic sprinklers.
3. Fires in readily ignitable and highly combustible materials spread over wide areas, such as gasoline on the floor or highly inflammable wing surfaces, may proceed at first faster than the opening of sprinklers and thus throw over for a time the application of water to the fire.
4. Water from overhead sprinklers may on some occasions keep the top surfaces of an airplane wetted, thus preserving a further utility which may spread to various parts of the machine. Under this condition, supplemental equipment, such as hand extinguishers or hose streams, could be brought to bear. In addition, use of floor sprinklers might reduce the spread of fire. None of these should be permitted to deprive overhead sprinklers of the water necessary for their effective operation.
5. Each sprinkler installation should be equipped with suitable alarm devices in order that additional fire-fighting appliances may be on hand as promptly as possible.
6. Fires involving large quantities of gasoline or similar fuel may not be entirely quenched by sprinklers alone, but would be kept, usually, in a subdued condition, making possible close approach thereto with other means for their subjugation. Suitable additional extinguishing devices should be provided to supplement sprinkler systems for quenching these or similarly persistent fires.
7. Fires in which several airplanes are ignited simultaneously will usually result in the burning of surface fabrics and the ruin or destruction of some of the structural members of all involved, and may damage airplanes closely adjacent.
8. Fire igniting a single airplane, even under highly favorable conditions for quick spread throughout the machine, is usually controlled by sprinklers. The cause of little or no damage to other airplanes stored close to the one first ignited.
9. The automatic application of water by sprinklers will generally give good protection to airplane hangars and contents except such of the contents as are involved in the outbreak of the fire.
10. The advantages of a heat-actuated system of open sprinklers, such as the one tested, are apparent (a) in small or slowly spreading fires (b) in buildings having high ceilings or conditions of ventilation causing horizontal drafts, or (c) in those instances where the time required for the opening of automatic sprinklers permits the fire to burn out or to get beyond the range of discharging sprinklers.

These tests have indicated that sprinkler systems installed and maintained in accordance with recognized good practice for the protection of this class of property, and having an adequate water supply, can control most of the fires likely to occur in airplane hangars; therefore serious thought, including thorough economic consideration should be given to the subject of such installations whenever commercial air transport or other aerial activities are carried on.

The tests were naturally of a highly spectacular character. In one instance more than three hundred gallons of gasoline was at risk including gasoline spilled on the floor and wings of four planes and in fuel tanks. In

FINDINGS PUBLISHED ON AIRPLANE HANGAR FIRE TESTS

A wooden hangar has successfully weathered a series of seven fire tests made by a special Fact-Finding Committee organized by the Aeronautics Branch of the U. S. Department of Commerce, to determine the effectiveness of automatic application of water in controlling airplane hangar fires. The report of the committee covers the circumstances and gives the results and conclusions of the tests which were conducted in Washington last Spring with obsolete airplanes in a regulation-size lumber hangar. It is amply illustrated with photographs and drawings and gives comprehensive details for the information of aeronautical engineers and other interested persons.

While these tests were not considered exhaustive, they covered a wide range of likely fire origins, a

variety of risks respecting plans storage and inflammable material present. Four types of sprinkler installations were used for applying water, viz: dry-pipe; wet-pipe; open overhead sprinklers of the same type and floor spray nozzles with heat-actuated water supply valve releasing mechanisms. Every effort was made to set up conditions that would make up in intensity for any limitations in variety in character of fire origin or hazard increasing circumstances.

The Committee's conclusions are carefully worded, avoid assuming more than could be reasonably deduced from the specific tests. Graphic illustrations of the report, on the other hand, showing several instances in which the interior of the hangar was filled with a bank of intense flame, give vivid testimony of the ef-

HIGH-POWERED FINANCING IS CONDEMNED BY BANKER

(By R. W. Watson, Vice-President of the Bank of America of California, in the California Constructor)

some of the tests the wings were saturated with gasoline, gasoline was spilled on the floors or allowed to leak from tanks, gasoline and oil saturated rags were used to convey flames, and a highly inflammable treating "dope" was spread over the wings. In one instance flames leaped through the front door of the hangar to a height of approximately 50 feet. Several times the hangar was filled with what seemed a solid bank of flames and the roof and caisson flames licked at the roof and a roof truss member for a considerable period of time.

The hangar was of wood construction approximately 80 feet by 66 feet by 28 feet high. It was donated by the National Committee on Wood Utilization of the Department of Commerce. The National Automatic Sprinkler Association furnished a both inside and ground sprinkler installations and an elevated water supply tank. The Bureau of Standards furnished technicians and observers for conduct of the tests and scientific instruments for recording data during the course of the fires.

The report, which is available from the Public Printer, at Washington, at a nominal charge of fifteen cents per copy, covers each test in detail, giving conditions precedent, data tables, time log of the test and a statement of results. It also explains the character of sprinkler systems used and illustrates their installation. In addition, it contains reports on volumetric capacity tests made on the dry-pipe systems subsequent to the fire tests.

Harry H. Elee, Director of Aeronautical Development, a department of Commerce, served as Chairman of the Fact-Finding Committee. Included in its membership were representatives of the Army and Navy air services, the U. S. Bureau of Standards, the National Advisory Committee for Aeronautics, the Aeronautical Chamber of Commerce, the National Automatic Sprinkler Association, the National Board of Fire Underwriters, and the Underwriters Laboratories.

SKYSCRAPERS NOT CAUSE OF N. Y. TRAFFIC CONGESTION

Separate skyscrapers and small groups of skyscrapers are exonerated as causes of traffic congestion in a report made public recently by the Regional Plan of New York and Its Environs under the heading "Building Bulks and Uses in Relation to Traffic," says Engineering News-Record. Blame for New York's traffic congestion is placed on the excessive bulks of buildings over large areas permitted by the present zoning laws.

It is pointed out that in midtown Manhattan, between 34th and 59th Sts., the average story height per unit of building plot is seven stories, which is likely to rise to between eight and nine stories by 1945—a height greatly in excess of what can be borne by the existing street system.

Property owners and merchants are declared to be the chief sufferers from the traffic congestion which they themselves cause by overbuilding. The difficulties in the way of automobile traffic in the midtown area are driving tenants and customers to other areas.

The Regional Plan urges as remedial measures that property owners should be compelled to provide space within their property for parking and for loading and unloading merchandise; the construction of bypass highways to eliminate through traffic from the streets; and requirement of setbacks on the street by stores which are responsible for an excessive amount of pedestrian traffic.

As the construction industry and allied lines represent one of the major industries of this country, the banks are of vital assistance in helping the various units that go to make up this industry.

Banks are called upon to finance almost every angle of building; are called upon to assist contractors in carrying on their jobs; to assist subcontractors, and also to assist material men. In fact they are back of the financing of almost every angle of business. In many cases the owners of buildings being erected borrow temporarily to complete the construction thereof, and banks also assist materially in the building construction by granting of building and real estate loans. Banks with ample savings funds, loan to a very large extent on real estate, for the purpose of improving the property.

The better handling of loan problems in the construction industry can be materially helped by proper understanding of credit fundamentals by all concerned. Contractors should have a thorough understanding of the financing of the jobs they are bidding on, especially in this day of high-powered promotion and high finance, where the building industry has suffered along with other lines through under-financing. Contractors should investigate the details of financing of each project, and this investigation should go beyond the first and second money encumbrances of record. Where securities are to be relied upon at a later date—these securities should be placed in escrow. Commitments for loans should also be checked carefully, verified and ascertained whether or not they are still in effect. Numerous losses have been suffered through the failure to check commitments of this type, material being furnished under the assumption that a commitment for loan was in effect, when as a matter of fact the time limit had expired, and when request was made for the advances this fact developed.

Contractors' Loans Problem

Loans to contractors present a problem to a banker somewhat different from regular commercial lines, especially in California—where volume has been developed by some contractors at a very rapid rate.

The preparation and submission of a financial statement, which reflects the correct position of the contractor, is one of the difficult things to do. Accounting practices for contractors vary to a great degree, and it is exceedingly difficult for some contractors to submit a proper statement of their actual financial position. A contractor's questionnaire and financial statement form has been prepared by the Associated General Contractors of America, which when properly filled out sets forth the exact position of the applicant. The contractor should know exactly where he stands on each job under way every day. Estimated profits on work in process should not be anticipated, nor set up on the contractor's books until the actual completion of the job. Contingencies often arise that absorb all of the estimated profits, and often occasion a loss rather than a profit.

Contractors should have a definite consciousness, and should endeavor

to live up to their terms of purchase strictly, and not impose upon the material men in the granting of extra time or extra discounts. Abuse of credit practice has resulted in many cases from this type of unjust treatment. There is a tendency in some localities to settle past due accounts for material by giving trade allowances, and as a result of the standing of the material men with their banks these have been discounted without question, and the abuse has grown to a quite substantial proportion. In case of additional time being necessary, creditors should be notified of all of the angles, and proper request for additional time submitted.

In the financing of material men, banks are also of great assistance, and again a proper accounting system is necessary. There are numerous cases where material men have been submitting financial statements showing a rather easy liquid position, when, as a matter of fact, accounts receivable are being carried that should have long ago been charged to losses. Material men should furnish a segregation of these notes and accounts receivable by maturities—perhaps those of thirty days and under, sixty days and under, and ninety days and over. In the proper preparation of financial statements to be furnished by contractors or material men—to banks, credit rating agencies, and others, a correct accounting procedure, as above outlined, will materially assist all concerned in arriving at a proper understanding. Contractors' statements should show a segregation of the jobs, with an accurate estimate of the material and labor necessary to complete the job at all times.

Large Losses' Blame Fixed

Large losses have been sustained by the granting of credit promiscuously to irresponsible contractors by material houses, who have depended to some extent on the possible collection of the items through the mechanic's lien law. These irresponsible contractors frequently underbid the legitimate contractor, who is endeavoring to operate and handle work with a reasonable profit. The irresponsible contractor has nothing to lose, and is endeavoring to get by, by not living up to the strict terms of the contract, cutting the material or labor on the job, and trying to make a profit thereby. The result of this type of practice, as above stated, has resulted in heavy losses to all concerned. Credit should be granted only to those justly entitled to it, and who have a reputation for square dealing. The illegitimate and irresponsible contractor has no place in the building game.

As above outlined, the banks of the state have been of great help in the financing of construction—in the granting of real estate loans. The larger banks through their stock and bond affiliations have been instrumental in underwriting some of our large building issues, and in that way have been helpful to the industry as a whole. Likewise through the Trust Department the financing of subdivisions has accomplished a lot toward the development of the residential sections of the larger cities in California.

Banks, through analysis of credit problems presented, can be helpful to the material men and contractors as a whole, by assisting in the elimination of high-powered financing, and credit losses to all concerned will be curtailed. The banks are willing at all times to check matters of this kind, through their well organized

Building News Section

APARTMENTS

Sub-Bids Being Taken.
APARTMENTS Cost, \$30,000
SAN FRANCISCO, Marina District.
 Three-story and basement frame and
 stucco apartments (six four-room
 apts.)
 Owner—Builder—Ren. Liebman,
 1555 Francisco St.
 Architect—Irvine & Ebbeys, Call Bldg.

Planned.
APARTMENTS Cost, \$100,000
LOS ANGELES, Cal. Flores St. near
 Fountain Ave.
 Four-story and basement brick apart-
 ments (31 apts.)
 Owner—Nathan Kolkey, 150 N. Soto
 St., Los Angeles.
 Architect—Max Maltzman, Los An-
 geles.

Sub-Bids Being Taken.
APARTMENTS Cost, \$40,000
SAN FRANCISCO, NW Broderick St.
 and North Point St.
 Three-story and basement frame and
 stucco apartments (15 apts.)
 Owner—Robinson & Johnson, 371 31st
 Ave., San Francisco.
 Architect—Irvine & Ebbeys, 72 New
 Montgomery St., San Francisco.

Owner Taking Sub-Bids.
APARTMENTS Cost, \$25,000
BURLINGAME, San Mateo Co., Cal.
 Two-story and basement frame and
 stucco apartments (17 2- and 3-
 room apts.)
 Owner—E. Cobo, 378 N Delaware, San
 Mateo.
 Plans by Grimes & Schoening, Bal-
 vich Bldg., San Mateo.

Owner Taking Bids.
APARTMENTS Cost, \$15,000
BURLINGAME, San Mateo Co., Cal.
 Broadway near California Drive.
 One-story and mezzanine floor rein-
 forced concrete apartments and
 stores.
 Owner—Peter Lemperopolus, 1212 El
 Camino, Burlingame.
 Architect—Russell Coleman, 1404
 Broadway, Burlingame.

Segregated Bids Being Taken.
APARTMENTS Cost, \$250,000
SAN MATEO, San Mateo Co., Cal.
 Third and Dartmouth Sts.
 Six-story and basement Class C steel
 frame, brick and concrete apart-
 ments (21 2, 3, 4, 5, 6, 7 and 8-
 room apts.)
 Owner—Irma Downing, 212 S. El
 Camino, San Mateo.
 Architect—Willis Lowe, 354 Hobart
 St., Oakland.

BONDS

SAUSALITO, Marin Co., Cal.—On
 January 19 an election will be held to
 vote bonds of \$24,000 for the develop-
 ment of playgrounds.

SANTA CRUZ, Santa Cruz Co., Cal.
 —An election will be held in the early
 part of the year to vote bonds to the
 extent of \$56,000 by Sequel Capital
 Sanitary District for the construction
 of pumping and screening plant and
 a main trunk line to serve the dis-
 trict. Wm. H. Oliver, engineer of Sequel,
 prepared plans and specifica-
 tions.

SAN MATEO, San Mateo Co., Cal.—
 City council contemplates election in
 April to vote bonds of \$30,000 for a
 new sub-fire station.

CHURCHES

Completing Plans.
CHURCH Cost, \$75,000
PASADENA, Los Angeles Co., Cal.
 Lake Avenue.
 Reinforced concrete church.
 Owner—Lake Avenue Congregational
 Church (Rev. James Henry Hut-
 chins, Pastor)
 Architect—Marston & Maybury, 25 S.
 Euclid Ave., Pasadena.

Plans Being Prepared.
CHURCH Cost, \$75,000
SANTA MONICA, Los Angeles Co.,
 Cal. California and Tenth Sts.
 Two-story and basement frame and
 stucco church and Sunday school.
 Owner—Trinity Baptist Church (Rev.
 Frederick W. Hatch, Pastor).
 Architect—Robert W. Orr, Corporation
 Bldg., Los Angeles.

Plans Complete.
CHURCH Cost, \$12,000
TAFT, Kern Co., Calif.
 One-story frame and stucco church
 (70x50-ft.) auditorium to seat 250.
 Owner—First Christian Church of Taft
 Architect—Robert H. Orr, Corporation
 Bldg., Los Angeles.

H. J. Kirscheim is chairman of the
 building committee.
 Composition shingle roof, steel sash,
 gas tension radiators, wood trusses,
 etc. Plans have been completed and
 forwarded to owners for approval.

SAN FRANCISCO.—Brass & Kuhn,
 1917 Bryant St., submitted lowest bid
 to Architect Arnold Constable, 550
 Market St., for furnishing oak choir
 stalls and screens and church furni-
 ture. They are to be installed in St.
 Dominic Church, Bush and Steiner
 Streets, for the Roman Catholic Arch-
 bishop of San Francisco.

Plans Being Figured.
CHURCH Cost, \$65,000
ALHAMBRA, Los Angeles Co., Cal.
 Third and Jefferson Aves.
 Frame and stucco church (86x124 ft.)
 (to seat 600).
 Owner—St. Paul's Presbyterian Church
 (Dr. A. Breglielb, Pastor).
 Architect—Scott Quintin, Medical
 Bldg., Alhambra.

SKILSAW Portable Electric Hand
 Saws (4 models).

SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attach-
 ments.

SYNTRON Portable Electric Ham-
 mers (4 models, motor-
 less).

MALL Flexible Shaft Machines (50
 models).

Electric Drills, Grinders, Buffers,
 Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric
 Tools.

1248 Mission St. **UNDArhlll**
 San Francisco **7662**
SALES . SERVICE . RENTALS

Prospective Bidders.
CHURCH Cost, \$70,000
OAKLAND, Alameda Co., Cal. Emer-
 son and Excelsior Avenues.
 Reinforced concrete church.

Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.,
 San Francisco.
 Architect—W. E. Schirmer, 700 21st
 St., Oakland.
 Following is a list of contractors
 who will figure the plans:
 Barrett & Hlilp, 918 Harrison St.,
 San Francisco.
 Thomas Furlong, 460 Jerome Ave.,
 Oakland.

Chas. Heyer, Mills 1'ldg., San Fran-
 cisco.
 W. C. Keating, 354 Hobart St.,
 Oakland.
 R. W. Littlefield, 337 17th St., Oak-
 land.

Leibert & Trobeck, Rialto Bldg., San
 Francisco.
 E. S. McIntyre, 468 Crescent St.,
 Oakland.
 J. L. McLaughlin Co., 251 Kearny
 St., San Francisco.
 S. Rasori, 74 New Montgomery St.,
 San Francisco.
 David Paganini, 519 California St.,
 San Francisco.
 J. P. Brennan, 354 Hobart St., Oak-
 land.

FACTORIES AND WARE- HOUSES

Contract Awarded.
BUILDING Cost, \$5500
SAN FRANCISCO, N Folsom Street
 W Rausch St.
 One-story and mezzanine floor class C
 concrete light industrial building.
 Owner—J. Harband, 1658 Howard St.
 Engineer—A. C. Griewank, 208 Mis-
 sion Street.
 Contractor—Schultz Const. Co., 1 Hill-
 crest Blvd., Millbrae Highlands.

OAKLAND, Cal.—Until Jan. 5, 4:15
 P. M., bids will be received by G. B.
 Hegardt, Secretary, City Port Com-
 mission, 424 Oakland Bank Building,
 for constructing lean-to addition to
 Hangar No. 2, at the Oakland Muni-
 cipal Airport.

Sub-Contracts Awarded.
ADDITION Cost, \$11,800
SAN FRANCISCO, Eighteenth and
 Carolina Streets.
 Wood and structural steel addition to
 factory.

Owner—Kaiser Paving Co., 74 New
 Montgomery St., San Francisco.
 Engineer—L. H. Nishitani, 525 Mar-
 ket St., San Francisco.
 Contractor—Barrett & Hlilp, 918 Har-
 rison St., San Francisco.
Miscellaneous Iron—Fair Mfg. Co., 617
 Bryant St., San Francisco.
Lumber—Christensen Lumber Co., 5th
 and Hooper Sts., San Francisco.

Plans Prepared.
REFINERY Cost, \$2,000,000
STOCKTON, San Joaquin Co., Calif.
 Six miles northwest of Stockton.
 Sugar refinery.

Owner—Holly Sugar Co., West Chan-
 nel, Stockton.
 Architect—Not Given.
 More definite information will be
 given at a later date.

TRACY, San Joaquin Co., Cal.—Fire completely destroyed the warehouse of the Holly Sugar Company, three miles north of Tracy. The loss is valued at \$1,900,000 which is covered by insurance.

Plans Being Figured—Bids Close Jan. 12th.
SERVICE BLDG. Cost, \$60,000
SAN MATEO, San Mateo Co., Cal.
 Group of service buildings (concrete construction).
 Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.
 Plans by Eng. Dept. of Owner.

Contract Awarded.
WAREHOUSE Cost, \$560,000
LOS ANGELES, Los Angeles Co., Cal. No. 1809 E-Ninth Street.
 Six-story and basement Class A reinforced concrete warehouse (100x 613 feet).
 Owner—Overland Terminal Warehouse Company.

Architect—Samuel H. Dunford, 5550 Avalon Blvd., Los Angeles.
 Contractor—J. V. McNeil Co., 5350 Avalon Blvd., Los Angeles.
 Several other units will be erected and construction on the second, which will cost about \$1,000,000, will probably be started during 1931.

Contract Awarded—Sub-Bids Being Taken.
WAREHOUSE Cont. price, \$89,000
SAN FRANCISCO, Samsone and Vallejo Streets.
 Three-story reinforced concrete warehouse.

Owner—Poultry Producers of Central California, 700 Front St.
 Architect—H. C. Faumann, 251 Kearny Street.
 Contractor—Sommarstrom Bros., 2921 San Pablo Ave., Oakland.
 Sub-bids are wanted on all portions of the work.

Planned.
WAREHOUSE Cost, \$—
TRACY, San Joaquin Co., Calif.
 New sugar warehouse (height and type of structure not determined).
 Owner—Holly Sugar Co., West Channel, Stockton.
 Architect—Not Selected.

Plans Being Figured—Bids Close Jan. 10th.
FACTORY Cost, \$200,000
OAKLAND, Alameda Co., Cal. 102nd Avenue.
 One-story class C concrete factory (to cover area of 12,000 sq. ft.).
 Owner—Hammer Bray Co., 26th Ave. and E 12th St., Oakland.
 Architect—Clay N. Burrell, American Bank Bldg., Oakland.
 Consulting Engineer—W. W. Hanscom, 26th Ave. and E 12th St., Oakland.
 Bids are being taken for a general contract.

FLATS

Sub-Figures Being Taken.
FLATS Cost, \$7500
SAN FRANCISCO, E 25th Avenue N Taraval St.
 Two-story and basement frame and stucco flats (2 flats).
 Owner—P. Yukicevich, 1442 Taraval Street.
 Engineer—J. G. Little and Co., 251 Kearny St.

To Be Done By Day's Work.
FLATS Cost, \$10,000
SAN FRANCISCO, E 21st Avenue N Balboa St.
 Two-story and basement frame and stucco flats (2 flats).
 Owner and Builder—S. Blaustein, 233 21st Avenue.
 Plans by P. C. Fisher, 1122 Noe St.

GARAGES AND SERVICE STATIONS

Preparing Working Drawings.
SALIS BLDG. Cost, \$25,000
SAN FRANCISCO, 17th Avenue and Irving St.
 One-story reinforced concrete auto sales and service building.
 Owner—Berry Motor Co., 733 Douglas Street.
 Architect—James Arnott, 417 Market Street.
 Bids will be taken in one week.

Plans Being Revised.
SERVICE STATION Cost, \$10,000
SAN FRANCISCO, Masonic Ave. and Turk Street.
 One-story class C steel frame service station.
 Owner—Associated Oil Co., 70 New Montgomery St.
 New bids will be called for at a later date.

Contract Awarded.
STATION Cost, \$5500
BERKELEY, Alameda Co., Cal. No. 1950 Oxford Street.
 One-story Class C service station and garage.
 Owner—Richfield Oil Co.
 Architect—W. H. Ratcliff Jr., Mercantile Trust Bldg., Berkeley.
 Contractor—Barrett & Hulp, 913 Harrison St., San Francisco.

Contract Awarded.
SERVICE STATION Cost, \$8000
COLMA, San Mateo Co., Cal.
 One-story concrete service station.
 Owner—Standard Oil Co., 225 Bush St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Contractor—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.

To Be Done By Day's Work By Owner.
SERVICE STATION, ETC. Cost, \$5500
OAKLAND, Alameda Co., Cal. SW Park Blvd. and Hampel St.
 One-story brick service station, shop and comfort station.
 Owner and Builder—G. E. Thompson, 1201 Norwood Ave., Oakland.
 Architect—Not Given.

Permit Applied For.
STATION Cost, \$3500
SACRAMENTO, Sacramento Co., Cal. No. 1216 Fifteenth Street.
 Service station.
 Owner—L. D. Ehret, 1050 38th St., Sacramento.
 Architect—Not Given.

Contract Awarded.
SERVICE STATION Cost, \$5000
SAN FRANCISCO, SW Cole & Fredrick Sts.
 One-story steel frame service station and 1-story steel frame shelter.
 Owner—General Petroleum Corp., 310 Sansome St.
 Plans by Eng. Dept. of Owner.
 Contractor—Reavey & Spivock, Ltd., Shell Bldg.

Plans Being Completed.
SERVICE STATION Cost, \$7500
SAN FRANCISCO, SW Pacific and Larkin Sts.
 Reinforced concrete service station.
 Owner—E. Dodge, % D. E. Jaekle, Call Bldg.
 Architect—Not Given.
 General bids will be taken about January 3.

GOVERNMENT WORK AND SUPPLIES

SACRAMENTO, Cal.—Until January 8, 3 P. M., under Order No. 2823-1750 bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver, Rio Vista, Solano County:

Three Butchers Steels, 14-in., No. 102 page 1135, Thomson-Diggs Cat. No. 26 or equal.

Two Blued Steel Roasters, 14x19 1/4 x 10-in., No. 400, page 710 Thomson-Diggs Cat. No. 26, or equal.

Twenty-four Bakers, double thick hotel ware, trade size 9-in., No. 613, page 13, Levenson Cat. No. 6, or equal.

Twenty-four Bakers, double thick hotel ware, trade size 7-in., No. 611, page 13, Levenson Cat. No. 6, or equal.
 120 Saucers, double thick hotel ware, No. 6453 page 13, Levenson Cat. No. 6, or equal.

Fifteen Platters, double thick hotel ware, trade size 12-in., No. 635, page 13, Levenson Cat. No. 6, or equal.

120 Cups, unhandled, double thick hotel ware, No. 642C, page 13, Levenson Cat. No. 6, or equal.

Sixty Table Spoons, Windsor Pattern Lashar Ware, or equal.

SACRAMENTO, Cal.—Until January 8, 3 P. M., under Order No. 2822-1750, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver, Rio Vista, Solano County:

Twelve Blankets, gray, double, 66x 80-in. when doubled, 65% wool, 35% cotton brand.

120 Pillow Cases, white, 36x42-in., firm, solid weave, quality equal to "Pequot" brand in number of threads in warp, filler and weight or size of thread.

120 Towels, face, 18x36-in., must be extra firm, heavy solid weave, best quality.

120 Towels, bath, 22x44-in., extra firm, heavy, solid weave, best quality, heavy.

HAWTHORNE, Nevada—Until January 6, 10 A. M., bids will be received by Bureau of Supplies and Accounts, Navy Department, Washington, D. C., for furnishing greenhouse unit to Naval Ammunition Depot at Hawthorne. Plans on file in Navy Purchasing Office, 100 Harrison St., Sacramento.

MARE ISLAND, Cal.—General Elec. Co., Schenectady, N. Y., at \$45,523, submitted lowest bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., for Turbo-alternator, consisting of 2,000-k.w., erected on structural steel supports, provided by government, changes to existing switchboard panel and electrical apparatus and the services of a supervising electrician.

Allis Chalmers, Milwaukee, at \$46,000 submitted second low bid, and Westinghouse Elec. & Mfg. Co., Washington, submitted third lowest bid. Complete list of bids will be published shortly.

BOULDER CITY, Nevada—Reclamations commissioner Mead announces that work will be started in the near future on the construction of Boulder City, the new town to be established in connection with the Boulder Dam project. The estimated cost of improvements is \$1,978,000 and work will consist of the construction of streets, sewers, water system, street lighting system, about eighty dwellings, town hall, school building, garage, auditorium, and administration building. A construction camp will also be constructed near the new city at a cost of \$1,095,000. Bids for the work will be advertised, all matters pertaining to the project to be handled by the U. S. Bureau of Reclamation, S. O. Harper, acting chief engineer, 1441 Welton St., Denver. Walter Young is construction engineer on the site. Business buildings and other structures will be built by the various contractors and by those given concessions.

Bids Opened.
CHAPEL \$40,000 appropriated
SAN FRANCISCO. Presidio Reserva-
tion.

Two-story reinforced concrete chapel,
(70x47-feet, seating 200; Mission
style; Sunday school in basement)
Owner—United States Government.
Architect—Constructing Quartermas-
ter, Fort Mason.

Tile roof, cast artificial stone and
terra cotta front, artificial tile floors,
hot air fan system, oil burners, oil
tanks, motor and outlet for organ, 3
lavatories, acoustic plaster interior,
Spanish Mission texture. Organ not
included in general contract.

Following is a complete list of bids:
Alt. No. 1, general contract; Alt. No.
2, plumbing; Alt. No. 3, heating; Alt.
No. 4, electrical work; Alt. No. 5,
changing thickness of concrete walls;
Alt. No. 6, deduct or omit stucco; Alt.
No. 7, add for cast stone; Alt. No. 8,
deduct for omitting pews; Alt. No. 9,
add for installing kneelers.

John Bjorkman (1) \$21,918; (5) \$275;
(6) \$600; (7) \$620; (8) \$1100; (9) \$75.
Wm. Spivock (1) \$23,640; (5) \$530;
(6) \$330; (7) \$1008; (8) \$1000; (9) \$70.
Frank J. Reilly (1) \$24,783; (5) \$500;
(6) \$150; (7) \$1050; (8) \$600; (9) \$100.
H. L. Petersen (1) \$25,337; (5) \$625;
(6) \$350; (7) \$325; (8) \$510; (9) \$125.
Sullivan & Sullivan (1) \$25,955; (5)
\$529; (7) \$751; (8) \$30,240; \$200.
Young & Horstmeier (1) \$26,425; (5)
\$570; (6) \$526; (7) \$300; (8) \$1170; (9)
\$70.

O. H. Johanns (1) \$26,445; (2) \$1169;
(5) \$600; (6) 700; (7) \$500; (8) \$650;
(9) \$150.

Wm. Martin (1) \$26,543; (5) \$500;
(6) \$271; (7) \$586; (8) \$570; (9) \$213.
J. H. Johnson (1) \$26,563; (5) \$400;
(7) \$940; (8) \$1000; (9) \$240.

F. H. Fields (1) \$26,762; (7) \$3300.
Monson Bros. (1) \$26,890; (5) \$512;
(6) \$112; (7) \$500; (8) \$900; (9) \$85.
Jacks & Irvine (1) \$27,423; (5) \$465;
(6) \$442; (7) \$498; (8) \$1300; (9) \$75.
Albert Nelson (1) \$27,492; (5) \$885;
(3) \$1750; (5) \$670; (6) \$575; (7) \$1-
020; (8) \$850; (9) \$100.

F. C. Amoroso & Son (1) \$28,842.
E. K. Nelson (1) \$29,500; (2) \$1100;
(3) \$1750; (4) \$900; (5) \$700; (6) \$600;
(7) \$600; (8) \$895; (9) \$130.

P. F. Speidel (1) \$29,975; (5) \$600;
(6) \$640; (7) \$800; (8) \$1100; (9) \$100.
N. H. Sjoberg & Sons (1) \$30,886;
(5) \$600; (6) \$344; (7) \$300; (8) \$1309;
(9) \$200.

S. Rasori (1) \$30,963; (5) \$640; (6)
\$840; (7) \$762; (8) \$900; (9) \$127.

Gauley & Yount (1) \$32,329; (5) \$609
(6) \$515; (7) \$938; (8) \$1315; (9) \$240.
Oliver S. Almlie (1) \$32,992; (5) \$684;
(6) \$700; (7) \$850; (8) \$900; (9) \$130.

Plumbing, Heating & Electric Work
Skelly & Kohler, 1344 9th Ave., (2)
\$1,030.

Frank Davison (2) \$1,050.
Chas. A. Langlais (4) \$1,083.
William Wara (2) \$1,090.
Fence Morf Elec. Co. (3) \$1,198; (4)
\$1,274.

Montague Range & Furnace Co. (3)
\$1,476.85.

Aladdin Heating Co., \$1,550.
Henry Ernst & Sons (2) \$1,790; (2)
\$1,881.

Electrical Work Only	
Atlas Elec. & Eng. Corp., 343 4th	
Street	\$ 460
Johnson Electric Co.	759
Aetna Electric Co.	853
C. H. Armstrong	940
Wedel Electric Co.	1,040
Apex Electric Co.	1,165
Bids held under advisement.	

BOULDER CITY, Nev.—Until 2 P.
M., Jan. 10, bids will be received by
the U. S. Bureau of Reclamation,
Wilda Bldg., 1441 Welton St., Denver,
for the fabrication and erection of 2
arc-welded or riveted plate steel
tanks for water supply, Boulder City,
Nevada, Boulder Canyon project. One
tank will be 100 ft. in diameter and
34 ft. high, with No. 10 gauge sheet
steel roof of 2,000,000 gallons capacity,

to be erected in Boulder City. The
other tank will be 40 ft. in diameter
and 25 ft. high, without roof, of 235-
000 gallon capacity, to be erected at
the site of the filter plant about 4
miles east of Boulder City. The tanks
will be erected on oiled sand founda-
tions constructed in advance by the
government. Specifications may be
obtained from the Bureau of Reclama-
tion, Las Vegas, Nevada, or Den-
ver, Colorado. Bids received Decem-
ber 12th rejected.

SAN LUIS OBISPO, Cal.—R. E. Mit-
telstaedt, retiring adjutant general of
California, announces that the U. S.
War Department will probably start
work early next year on additional
improvements at the National Guard
training camp here. Program in-
cludes the construction of 27 new mess
halls and kitchens, eight bath houses
and 288 new tent floors; also exten-
sions to the sewer, water, light and
heating systems. Cost \$150,000. Con-
tracts will be let for the various parts
of the work.

MARE ISLAND, Cal.—Judson Pacific
Co., 609 Mission St., San Francisco,
awarded contract by Bureau of Yards
and Docks at \$73,685 for furnishing
and installing an electric gantry crane
at the Mare Island navy yard.

REDWOOD CITY, San Mateo Co.,
Cal.—Until January 6, 3 P. M., bids
will be received by U. S. Engineer Of-
fice, Customhouse, San Francisco, for
dredging in Redwood Creek. Specifi-
cations obtainable from above office.

COCO SOLO, C. Z.—Following is a
partial list of prospective bidders and
elevator to be installed at Coco Solo
under Specification No. 6356, bids for
which will be opened by the Bureau
of Yards and Docks, January 7:
Warner Elevator Co., Spring Grove
Ave., Cincinnati.
Moffatt Machinery Mfg. Co., Char-
lotte, N. C.

Kimball Bros. Co., Council Bluffs,
Iowa.
S. Heller Elevator Co., Milwaukee,
Wis.

New Era Elevator & Machine Co.,
611 C St., N. W., Washington.
Otis Elevator Co., Washington.

HAWTHORNE, Nev.—C. F. Din-
smore, Ogden, Utah, at \$23,800 sub-
mitted lowest bid to Bureau of Yards
and Docks, Washington, D. C., for a
mine filling plant to be erected at the
naval ammunition depot at Hawthorne,
Nevada. The work will include two

bulk TNT storage buildings, two box
opening buildings, two filling houses,
two buildings designated as cooling
shed and temporary storage buildings,
crating and painting building, three
drilling buildings, 39 dugouts with bar-
ricades, empty mine storage building,
concrete and earth barricades about
buildings, standard gauge railroad
tracks, driveways, roads, walks, etc.
Following are three lowest bidders:
C. F. Dinsmore, Ogden.....\$33,500
Robt. E. McKee, Los Angeles.....369,000
Thomas Haverty, Los Angeles.....380,000
Complete list of bids will be pub-
lished shortly.

SANTA ANA, Orange Co., Cal.—In
addition to those previously reported,
following are prospective bidders for
Santa Ana Postoffice building, bids for
which will be opened January 12 by
Supervising Architect, Treasury De-
partment, Washington, D. C.:
Schuck Const. Co., 1932 W 62nd St.,
Los Angeles, Calif.
Sarver & Zoss, 727 W 7th St., Los
Angeles, Calif.

Robert E. McKee, 1128 Central Bldg.,
Los Angeles, Calif.

Wurster Const. Co., Architects
Bldg., Los Angeles, Calif.

R. E. Campbell, 108 W 6th St., Los
Angeles, Calif.

W. J. Shirley, 1351 W Washington
St., Los Angeles, Calif.

Harvey A. Nickols, 936 E Slauson
Ave., Los Angeles, Calif.

Wm. MacDonald Const. Co., Saint
Louis, Mo.

Hallbauer-LaBahn, Inc., Chicago.
Herbert M. Baruch Corp., Ltd., 1015
Lincoln Bldg., Los Angeles, Calif.

W. D. Lovell, Minneapolis, Minn.
Aigernon Blair, Montgomery, Ala.

Anton Johnson Co., 517 E Centro
St., Los Angeles, Calif.

Louis A. Geisler, 6212 S Middleton
Ave., Los Angeles, Calif.

Henry V. Schlueter, 2421 N Com-
mercivath Ave., Los Angeles, Calif.

Adolph G. Schmid, 412 W Santa
Clara, Santa Ana, Calif.

J. W. Jean, 6778 Hollywood Blvd.,
Los Angeles, Calif.

SAN LUIS OBISPO, San Luis Obis-
po Co., Cal.—Adjutant General of
California, R. E. Mittelstaedt, an-
nounces a \$150,000 building program
for the National Guard Camp at San
Luis Obispo for the year 1931. Con-
struction will include 27 new mess
halls and kitchens, eight bathhouses
and 288 new tent floors. Extensions
will be made to the sewer, water,
light and heating facilities.

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SAN DIEGO, Cal.—As previously reported, Fred F. Greenfield Co., 1508 W. 14th St., Los Angeles, submitted low bid of \$103,000 to Bureau of Yards and Docks, Navy Department, Washington, D. C., Dec. 17, for the construction of a shop building at the Naval Operating Base (Air Station), San Diego. Specification No. 5275. The work includes concrete, brick and hollow tile work, structural steel, metal doors, metal and wire mesh partitions, steel windows, dumb waiters, roofing and sheet metal work, wood block flooring, mastic floor, plastering, gas and air piping and heating, plumbing and electrical work. Following is a complete list of bids received:

Item 1, work complete; 2, add for salt water lines as per alt. A:
 Fred F. Greenfield Co., 1508 W. 14th St., Los Angeles, item 1, \$103,000; 2, \$720.
 Wurster Constr. Co., San Diego, item 1, \$105,000; 2, \$775.
 Lynch Construction Co., Los Angeles, item 1, \$106,705; 2, \$350.
 Anton Johnson Co., Inc., South Pasadena, item 1, \$106,790; 2, \$738.
 Jarboe Constr. Co., San Diego, item 1, \$106,857; 2, \$1000.
 M. H. Golden, San Diego, item 1, \$107,100; 2, \$795.
 Robert E. McKee, Central Bldg., Los Angeles, item 1, \$107,600; 2, \$1400.
 Bannister-Field Co., Ltd., Los Angeles, item 1, \$108,350; 2, \$1000.
 Modern Constr. Co., San Diego, item 1, \$108,153; 2, \$720.
 Andy Sorcal, 722 Magnolia St., Long Beach, item 1, \$108,908; 2, \$1000.
 Ova F. Eckles, 711 Sunset Court, Mission Beach, item 1, \$109,455; 2, \$720.
 G. F. Campbell Building Co., San Diego, item 1, \$109,500; 2, \$792.
 Van Rensselaer & Isham, 4243 Los Nietas Drive, Los Angeles, item 1, \$109,970; 2, \$800.
 H. O. Larsen, 1340 E St., San Diego, item 1, \$110,400; 2, \$800.
 Los Angeles Contracting Co., 4816 W. Pico St., Los Angeles, item 1, \$112,250; 2, \$850.
 Union Engineering Co., Ltd., 5905 Pacific Blvd., Huntington Park, item 1, \$113,000; 2, \$720.
 Wm. MacDonald Construction Co., St. Louis, item 1, \$113,484; 2, \$1200.
 W. E. Kier Construction Co., First National Bank Bldg., San Diego, item 1, \$115,520; 2, \$1050.
 Pettifer-Hunt Co., 4123 44th St., San Diego, item 1, \$116,400; 2, \$800.
 W. P. Thurston, Richmond, Va., item 1, \$129,800; 2, \$1800.

SAN DIEGO, Cal.—Until 11 A. M., January 15, bids will be received by Public Works Department of Eleventh Naval District, San Diego, for replacing elevator enclosure doors and new retiring cam mechanisms at the Naval Operating Base Naval Hospital, San Diego. Specification No. 6378. The work includes (a) the removal of six existing elevator enclosure doors and the furnishing and installing of six new metal covered elevator enclosure doors, with necessary appurtenances, and (b) the complete retiring cam mechanisms and torque motor on four existing elevators, one each in buildings Nos. 2, 5, 9 and 10. Information obtainable from Commandant, Eleventh Naval District, San Diego, upon deposit of \$10. Captain DeWitt C. Webb, public works officer.

HALLS AND SOCIETY BUILDINGS

Contract To Be Awarded.
 COMMUNITY CENTER Cost, \$6500
 MODESTO, Stanislaus Co., Cal.
 One-story and basement frame and

stucco Jewish community center.
 Owner—Jewish Community Center.
 Architect—G. N. Hilburn, 1312 I St., Modesto.
 Contractor—Harvey Reberman, 915 6th St., Modesto.

Work Started.
 CLUB BLDG. Cost, \$5000
 ALBANY, Alameda Co., Cal. Solano and Kaines Streets.
 Two-story frame club building (gymnasium, offices, etc.)
 Owner—Y. M. C. A. (John W. Berger, Secretary), 2001 Allston Way, Berkeley.
 Architect—W. H. Ratcliff Jr., Chamber of Commerce Bldg., Berkeley.
 Manager of Constr.—F. E. Sherwood, Premises.

Plans Being Completed.
 MEMORIAL BLDG. Cost, \$95,000
 HAYWARD, Alameda Co., Cal. (Kolze property) Main St.
 One-story reinforced concrete Veterans' Memorial Building (Spanish type).
 Owner—County of Alameda.
 Architect—H. H. Meyers, Kohl Bldg., San Francisco.
 Bids will be taken in about thirty days.

Low Bidder.
 LODGE BLDG. Cost, \$90,000
 LAS VEGAS, Nevada. Third and Fremont Streets.
 Two-story Class C brick store and lodge building (100x130 feet).
 Owner—Las Vegas Masonic Lodge.
 Architect—Gilbert Stanley Underwood, 730 S. Los Angeles St., Los Angeles.
 Low Bidder—Los Angeles Contracting Co., 4816 W. Pico Blvd., Los Angeles.

Preparing Sketches.
 MEMORIAL BLDG. Cost, \$—
 ALTURAS, Modoc Co., Cal.
 Veterans' Memorial Building.
 Owner—County of Modoc.
 Architect—Ralph Taylor, Alturas.

Sub-Contracts Awarded.
 CLUB HOUSE Cost, \$15,000
 STOCKTON, San Joaquin Co., Cal.
 Park St. bet. Madison and Commerce Streets.
 One-story brick club house with tile roof (68x91 feet).
 Owner—Knights of Pythias, Charter Oak Lodge No. 20.
 Architect—Victor Galbraith, Elks Bldg., Stockton.
 Contractor—T. E. Williamson, 1859 W. Park Ave., Stockton.
 Masonry—J. A. Silver, Johnson Ferry Road, Stockton.
 Heating and Plumbing—W. T. Gibson Co., 123 S-Grant St., Stockton.
 Electric Wiring—Collins Electric Co., 708 E-Market St., Stockton.

Reinforcing Steel—F. A. Klingler, 1269 N. Filgrin St., Stockton.
 Roofing—N. Clark & Son, 116 Natoma St., San Francisco.
 Painting—Marcelin & Carrol, 729 N. Yosemite St., Stockton.
 Plastering—J. Hodge, Country Club Blvd., Stockton.
 Tile—H. P. Fischer Tile Co., 744 E. Weber St., Stockton.
 Concrete has been poured. Steam heating plant, oil burning system, maple flooring, steel sash.

COLUSA, Colusa Co., Cal.—Colusa County Board of Supervisors discussed the plan to remodel the high school in Colusa for a Veterans' Memorial building or remodel the opera hall for a memorial building. No definite action has been taken at this time. Arch. Davison is chairman of the building committee. More definite information will be given at a later date.

Commissioned To Prepare Plans.
 MEMORIAL Cost, Approx. \$20,000
 VACAVILLE, Solano Co., Cal.
 One-story and basement Veterans' Memorial Building.
 Owner—County of Solano.
 Architect—Kent & Hass, 525 Market St., San Francisco.

WILLOWS, Glenn Co., Cal.—Until January 12, 11 A. M., bids will be received by W. B. Sale, county clerk, to furnish and install furniture, draperies and equipment to Orland Memorial Building at Orland. Certified check of 10% required with bid. Specifications and further information obtainable from above.

HOSPITALS

OAKLAND, Cal.—Until January 13, 10:30 A. M., bids will be received by Geo. Gross, County Clerk, for hospital equipment for use at Tuberculosis Hospital building. Specifications obtainable from John M. Sabin, purchasing agent, Hall of Records, Oakland. Certified check of 10% required payable to Geo. Gross, Clerk of Board.

AGNEW, Santa Clara Co., Calif.—Until Jan. 9, 2 P. M. informal bids will be received by State Department of Architecture, Public Works Bldg., Sacramento, for reconstruction of two elevators in the Agnew State Hospital.

SAN FRANCISCO—Until Jan. 12, 3 P. M., bids will be received by Leonard S. Leavy, city purchasing agent, to furnish hospital equipment for San Francisco Hospital. Specifications and further information obtainable from above.

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Sub-Bids Being Taken.
HOSPITAL Cont. price, \$69,223
STOCKTON, San Joaquin Co., Calif.
 State Hospital (under construction).
 Two-story and part basement reinforced concrete hospital and two-story reinforced concrete industrial building.

Owner—State of California.
 Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Building, Sacramento.

Contractor—Sensen and Haggmark, 3632 Harrison St., San Francisco.
 Hospital building will be of reinforced concrete with tile and solid plaster partitions, wood roof construction and tile roof and a total floor area of 14,500 square feet.

The industrial building will be of concrete construction, wood and concrete second floor construction, steel roof construction and a total floor area of approximately 61,500 sq. ft.

As previously reported plumbing and heating awarded to J. C. Plack, 721 W Elm St., Stockton, at \$14,800; electrical work to Collins Electric Co., 708 E Market St., Stockton, at \$3881.

EUREKA, Humboldt Co., Cal.—Until January 13, 2 P. M., bids will be received by F. M. Kay, clerk of Board of Supervisors, to furnish miscellaneous items for County hospital for the quarter ending March 31, 1931. Specifications and further information obtainable from above.

WILLOWS, Glenn Co., Cal.—County Grand Jury, in annual report, recommends a \$3000 expenditure on the county hospital for "painting and general renovations."

RIVERSIDE COUNTY, Calif.—State Director of Institutions, Earl E. Jensen, announces the purchase of a 1060 acre site in Riverside County on which will be erected a new state hospital for the insane. The land, known as the Arlington site, was purchased from J. W. Hole of Los Angeles at \$328,600 or \$310 per acre.

The 1929 Legislature appropriated \$1,000,000 for the site and buildings at the new institution, and from the sum remaining after paying for the land the following construction is planned: Unit to house 400 patients, \$360,000; laundry building and equipment, \$50,000; bakery, commissary and refrigeration unit, \$80,000; sewage treatment plant and collection system, including storm drains, \$32,000; administration building, \$50,000; domestic water development, \$15,000; fire protection, \$7500; electrical service, \$10,000; gas service, \$2000.

The unit for patients will be started immediately. Funds already have been delivered to the State Division of Architecture and it will be completed by next summer. There will also be started immediately temporary wooden buildings to house 50 patients and 20 employees, who will be used to start farming activities and aid in the construction program.

With the completion of the first unit for patients, relief can be afforded other hospitals in the south by transferring patients. The construction program for the next biennium will provide another unit for 400 patients as well as employees' quarters and minor construction items.

HOTELS

Plans Being Completed.
HOTEL Cost, \$175,000
OAKLAND, Alameda Co., Cal. San Pablo Ave. near Fortieth St.
 Six-story steel frame and concrete hotel.

Owner—Withheld.
 Plans by Clay N. Burrell, American Bank Bldg., Oakland.

Contractor—Dyer Constr. Co., Ray Bldg., Oakland.
 Structural steel bids will be taken about January 15.

POWER PLANTS

GRIDLEY, Butte Co., Cal.—Until January 12, 8 P. M., bids will be received by J. L. Lewis, city clerk, to furnish one Diesel engine generating unit with auxiliary pumps, motors, equipment and materials. Certified check or surety bond 10% required with bid. Specifications on file in the office of clerk.

SANTA ANA, Orange Co., Cal.—Construction of a \$1,500,000 sub-station at Stanton in Orange County, has been announced by R. E. Bacon, manager of the Santa Ana district for the Southern California Edison Co. A 15-mile transmission line will connect the Stanton and Light-hipe sub-stations. This line will involve an additional \$1,500,000. According to Mr. Bacon, transformers and switching equipment of large capacity will be installed at Stanton. The initial installation will be 33,523 horse power. All will be oil insulated, air-cooled self cooling and each will weigh 288,000 lbs., containing 16,123 gallons of oil. Each transformer will be 37 ft. in height and approximately 21 ft. in diameter. There will be 24 oil switches weighing 875,000 lbs., each containing 5400 gallons of oil. The project will require approximately 11,752 ft. copper tubing.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

SAN FRANCISCO—Until Jan. 9, 2 P. M., informal bids will be received by State Department of Architecture, Public Works Bldg., Sacramento, for partition work in the State Building, San Francisco.

Bids Opened.
AUDITORIUM Cost, \$3—
PASADENA, Los Angeles Co., Cal.
 Class A reinforced concrete municipal auditorium (tile and composition roofing, steel and wood sash) (seating capacity 3000).

Owner—City of Pasadena.
 Architects—Edwin Bergstrom, 1129 Citizens National Bank Bldg., Los Angeles, and Bennett & Haskell, 311 First Trust Bldg., Pasadena.

Following is a complete list of low bids received:

Wm. C. Crowell, 495 S-Broadway, Pasadena, general contract, \$752,000.
 Coony & Winterbottom, 2425 Hunter St., Los Angeles, heating and ventilating, at \$44,855.

R. R. Jones Electric Co., 1124 Fair Daks, South Pasadena, electric wiring at \$46,445.

F. B. Jones, 521 N. Holliston, Pasadena, plumbing, at \$25,564.

Pearbody Seating Co., 631 S. Spring St., Los Angeles, seats at \$22,302.08.

Beckwith Elevators, Ltd., 1339 Santa Fe, Los Angeles, elevators, at \$7029.
 D. Zelinsky & Sons, Inc., 687 Antonio St., Los Angeles, painting at \$2000.

EL CERRITO, Contra Costa Co., Cal.—J. E. Scott at \$35 awarded contract by city trustees to paint cells at city jail and to M. Dar at \$126.50 to install bunks in same quarters.

Bids Opened.
FIRE HOUSE Cost, \$7200
CORTE MADERA, Marin Co., Calif.
 NE First and Willows Sts.
 One-story frame and stucco fire house with tile roof (47x61-ft.) Spanish type (heating plant).
 Owner—Corte Madera Fire Dept., Inc. Corte Madera.

Plans by J. C. Oglesby, Freitas Bldg., San Rafael.

Low Bidder—Wm. Wagner, Larkspur.
 Following is a complete list of bids:
 Wm. Wagner, Larkspur, \$6,952
 A. W. Wheeler, 6370
 L. Miller, 7500
 E. W. Ruhl, 7500
 M. Kahl, 7429
 L. M. Bryan, 8,900
 Bids held under advisement.

Sub-Contracts Awarded.
ADDITION Cont. Price, \$6286
SALINAS, Monterey Co., Cal.

Addition to city jail and certain alterations in present jail cells.
 Owner—City of Salinas, M. R. Keef, City Clerk.

Architect—Butner & Stranahan, Glikbarg Bldg., Salinas.

Contractor—W. E. Green, Salinas.

Concrete Aggregates—Central Supply Co., Salinas.

Lumber, Cement, Etc.—Tynan Lumber Co., Salinas.

Plumbing and Sheet Metal Work—B. E. Underwood, Salinas.

Electrical Work—Rodeo Electric Co., Salinas.

Ornamental Iron and Cell Work—Helliwig Iron Works, 470 Vine St., San Jose.

Reinforcements—W. S. Wetenhall Co., 17th and Wisconsin Sts., S. F.

Mill Work—Salinas Planning Mill, Salinas.

WILLOWS, Glenn Co., Cal.—County Grand Jury, in annual report, recommended \$10,000 expenditure on county courthouse for "badly needed repairs."

RESIDENCE

Sub-Bids Being Taken.
RESIDENCE Cost, \$5000
REDWOOD CITY, San Mateo Co., Cal.
 No. 535 Jeter St.

One-story and basement frame and stucco residence.
 Owner and Builder—Leonard A. Monroe, 4th Ave., Redwood City.

Plans by Owner.

Sub-Bids Being Taken.
RESIDENCE Cost, \$7500
REDWOOD CITY, San Mateo Co., Cal.
 No. 41 Hudson St.

One-story and basement frame and stucco residence.

Owner and Builder—James S. Forster, 1215 Jefferson St., Redwood City.

Plans by Owner.

Contract Awarded.
RESIDENCE Cost, \$6000
REDWOOD CITY, San Mateo Co., Cal.
 No. 64 Hillview Ave.

One-story and basement frame and stucco residence.

Owner—J. L. Chiapellone, 718 Roosevelt Ave., Redwood City.

Plans by Owner.

Contractor—C. S. Baker, 611 9th Ave., San Mateo.

Completing Plans.
RESIDENCE Cost approx. \$20,000
SAN JOSE, Santa Clara Co., Cal.

Two-story and basement frame and stucco residence (10 rooms).

Owner—Dr. E. P. Cook, St. Claire Bldg., San Jose.

Architect—Ralph Wyckoff, San Jose National Bank Bldg., San Jose.

To Be Done By Day's Work by Owner
RESIDENCE Cost each, \$5000
SAN FRANCISCO, S Seneca E Delano St.

Two 1-story and basement frame and stucco residences.

Owner—Stonson Bros. & Thorinson, 279 Yerba Buena Ave.

Plans by Owners.

Elevator Contract Awarded.
ALTERATIONS Cost, \$8000
PIEDMONT, Alameda Co., Cal.
 Alter two-story frame residence (in-
 stall elevator, etc.)
 Owner—Anna Miller.
 Architect—Clarence Tantau, 210 Post
 St., San Francisco.
 Contractor—Charles Stockholm, Russ
 Bldg., San Francisco.
Elevator—Ods Elevator Co., 1 Beach
 St., San Francisco.

Preparing Working Drawings.
RESIDENCE Cost, \$7000
BERKELEY, Alameda Co., Cal.
 Two-story frame and stucco residence
 (6 rooms).
 Owner—H. Kingman.
 Architect—W. Williams & Wastell, 374
 17th St., Oakland.

Contract Awarded.
GATE LODGE Cost, \$—
LOS ALTOS, Santa Clara Co., Cal.
 Gate Lodge.
 Owner—Milton Hans.
 Architect—Farr & Ward, 68 Post St.,
 San Francisco.
 Contractor—Wm. Martin, 666 Mission
 St., San Francisco.
 Bids will be taken from a selected
 list of contractors in about 3 weeks
 for a two-story and basement frame
 and stucco residence (12 rooms and 3
 baths), swimming pool, dressing
 rooms, tennis courts and separate gas-
 rage building. Electric and warm air
 heating system.

Plans Being Completed.
RESIDENCE Cost, \$15,000
MODESTO, Stanislaus Co., Cal.
 Two-story frame and stucco residence
 (9 rooms).
 Owner—D. P. Boothe, 114 11th Street,
 Modesto.
 Architect—Warren Perry, 260 California
 St., San Francisco.
 Bids will be taken in one week.

Contract Awarded.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. 21st and Sanchez
 Streets.
 1½-story frame and stucco residence.
 Owner—Burlingame Bldg. Corp.
 Plans by Russell Coleman, 1404 Broad-
 way, Burlingame.
 Contractor—G. W. Williams Co., 1404
 Broadway, Burlingame.

To Be Done By Day's Work By Owner
RESIDENCES Cost each, \$6900
SAN FRANCISCO. S Kirkham St., W
 31st Ave.
 Two 1-story and basement frame and
 stucco residences.
 Owner and Builder—H. Doelger, 300
 Judah St.
 Plans by Owner.

To Be Done By Day's Work.
RESIDENCE Cost, \$5500
SAN FRANCISCO. S Ulloa St. E 15th
 Avenue.
 One-story and basement frame and
 stucco residence.
 Owner and Builder—A. Sergio, 2233
 26th Avenue.
 Architect—Not Given.

Contract Awarded.
RESIDENCE Cost, \$5000
SAN FRANCISCO. E 21st Avenue S
 Moraga St.
 One-story and basement frame and
 stucco residence.
 Owner—J. Fonti, 33 Prentice St.
 Plans by Owner.
 Contractor—H. H. Isaac, 151 Farragut
 Avenue.

Contract Awarded.
ALTERATIONS Cost, \$8000
PIEDMONT, Alameda Co., Cal.
 Alterations to two-story frame resi-
 dence.
 Owner—Anna Miller.
 Architect—Clarence Tantau, 210 Post
 St., San Francisco.

Contractor—Charles Stockholm, Russ
 Bldg., San Francisco.
 Owner Taking Sub-Bids.
RESIDENCE Cost, \$7500
STOCKTON, San Joaquin Co., Cal.
 One-story and basement brick veneer
 residence (7 rooms).
 Owner and Builder—Anton Larson, 123
 W Maple St., Stockton.
 Architect—Glenn Allen, Union Bldg.,
 Stockton.

Bids Opened.
RESIDENCE Cost, \$16,000
SAN JOSE, Santa Clara Co., Cal.
 Two-story and basement frame and
 stucco residence (8 rooms and 3
 baths).

Owner—D. E. E. Porter, Security
 Bank Bldg., San Jose.
 Architect—Wolfe & Higgins, Realty
 Bldg., San Jose.
 Following is a list of the general
 contract bids received:
 S. Fiore, San Jose.....\$11,250
 M. Reese, San Jose.....11,497
 Calvelli & Cliff, San Jose.....11,857
 J. M. Nelson, San Jose.....12,163
 C. Brown, San Jose.....12,163
 Paul Anderson, San Jose.....12,185
 Henry Bolvin, San Jose.....12,200
 Guy M. Latta, San Jose.....12,700
 Bids held under advisement. Bids
 for painting and mechanical work
 have been opened and are also held
 under advisement.

Sub-Contracts Awarded.
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Cal. 1509
 La Loma Avenue.
 Two-story and basement frame and
 stucco residence.
 Owner—E. J. Krowell, 1923 Los An-
 geles Ave., Berkeley.
 Architect—Master & Hurd, 210 Post
 St., San Francisco.

Contractor—H. Papenhausen, 595 Vic-
 toria St., San Francisco.
Glass and Mill Work—National Mill &
 Lumber Co., 400 High St., Oak-
 land.
Concrete Work—P. Barale & Co., 123
 E 15th St., Oakland.
Lumber—E. K. Wood Lumber Co.,
 Frederick and Kings Sts., Oak-
 land.

Sub-bids are wanted on electric
 work, plumbing, plastering, sheet met-
 al, tile work and heating.
 Owner Taking Sub-Bids.
RESIDENCE Cost, \$6000
HOPLAND, Mendocino Co., Calif.
 One-story and basement frame resi-
 dence (7 rooms; Colonial type).
 Owner—T. J. Geary, Post Office Bldg.,
 Hopland.
 Architect—Irvine & Ebbets, Call Bldg.,
 San Francisco.

Contract Awarded.
RESIDENCE Cost, \$30,000
OAKLAND, Alameda Co., Cal. 10924
 Foothill Bldg.
 Two-story and basement frame and
 stucco residence (11 rooms).
 Owner—Lloyd Dinkelspiel, 2800 Broad-
 way, San Francisco.
 Architect—J. H. Mitchell, 369 Pine St.,
 San Francisco.
 Contractor—A. F. & C. W. Mattock,
 212 Clara St., San Francisco.

Contract Awarded.
BERKELEY, Alameda Co., Cal. No.
 4 Mosswood Lane.
 One-story frame and stucco residence
 (4 rooms).
 Owner—Mrs. Ferguson, 1 Orchard
 Lane, Berkeley.
 Architect—W. T. Steilberg, 1 Orchard
 Lane, Berkeley.
 Contractor—C. O. Bradhoff, 911 56th
 St., Oakland.

To Be Done By Day's Work.
RESIDENCE Cost, \$6500
STOCKTON, San Joaquin Co., Cal.
 No. 436 N. Central Avenue.

One-story and basement frame and
 stucco residence.
 Owner and Builder—J. M. Hiltnerbrand,
 2644 E Main St., Stockton.
 Architect—Not Given.

Sub-Figures Being Taken.
RESIDENCE Cost, \$6500
SAN FRANCISCO. S Benton W Gene-
 hurn Street.

One-story and basement frame and
 stucco residence.
 Owner—St. Mary's Park. 3901 Mis-
 sion St., San Francisco.
 Architect—Not Given.
 Contractor—A. R. Johnson, 3901 Mis-
 sion St., San Francisco.

Plans Being Completed.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. Pineslake Park
 (Sloat Blvd.)

Two-story and basement frame and
 stucco residence (8 rooms, 3 baths)
 Owner and Builder—H. W. Petersen,
 1 South Hill Blvd., San Francisco.
 Architect—Not Given.
 Sub-Bids will be taken Jan. 29th.

Sub-Bids BMEing Taken.
RESIDENCE Cost, \$5500
MILLBRAE HIGHLANDS, San Ma-
 teo Co., Cal.

One-story and basement frame and
 stucco residence (5 rooms).
 Owner and Builder—Castle Bldg. Co.,
 830 Market St., San Francisco.
 Architect—Not Given.

Contracts Awarded.
RESIDENCE Cost, \$7900
SAN JOSE, Santa Clara Co., Cal. Mc-
 Kendrie Ave.

Two-story and basement frame and
 stucco residence (2 baths).
 Owner—Chas. McKenzie, Twoby Bldg.
 San Jose.

Plans by Owner.
Carpentry Labor—T. Thomas Hersh-
 back, Twoby Bldg., San Jose.
Concrete and Cement Work—Jos. Alva
 117 S 3rd St., San Jose.

Sub-Figures Being Taken.
RESIDENCE Cost, \$—
SAN MATEO PARK, San Mateo Co.
 One-story and basement frame and
 stucco residence (10 rooms).
 Owner & Builder—H. H. Randles, 249
 Hillcrest Blvd., Burlingame.
 Architect—Ed. M. Mason Sharpe, 525
 Market St., San Francisco.

Construction Postponed Thirty Days.
RESIDENCE Cost approx. \$15,000
REDWOOD CITY, San Mateo Co., Cal.
 Edgewood Park.

Two-story and basement frame and
 stucco residence (9 rooms and 3
 baths).
 Owner—H. E. Bourquin, 2710 Broad-
 way, Redwood City.
 Plans by J. P. Reinoh, 218 Cowper
 St., Palo Alto.

Plans Being Figure—Bids Close Jan.
 5, 9 P. M.
RESIDENCE Cost, \$16,500
SAN JOSE, Santa Clara Co., Cal.
 Margaret Street.
 Two-story and basement brick resi-
 dence with tile roof (9 rooms, 2
 baths).

Owner—Chas. Gladding, 1215 Yosemite
 St., San Jose.
 Architect—Chas. McKenzie, Twoby
 Bldg., San Jose.
 Hot air heating system.

Contract Awarded.
RESIDENCE Cost, \$6000
SAN LEANDRO, Alameda Co., Cal.
 No. 929 Glen Drive.
 Two-story frame and stucco residence
 (6 rooms).
 Owner—Dr. Fox.
 Architect—Not Given.
 Contractor—Nylander Bros., 633 Mont-
 clair St., San Leandro.

Contract Awarded.
ESTATE Cost, \$—
LOS ALTOS, Santa Clara Co., Cal.
Owner—Milton Haas.
Architect—Farr & Ward, 68 Post St., San Francisco.
Contractor—Wm. Martin, 666 Mission St., San Francisco.
Bids will be taken from a selected list of contractors in about 3 weeks for a two-story and basement frame and stucco residence (12 rooms, 3 baths), swimming pool, dressing rooms, tennis courts, and separate garage building. Electric and warm air heating system.

Sub-Bids Being Taken.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. Pinalake Park (Sloat Blvd.)
Two-story and basement frame and stucco residence (8 rooms, 3 baths)
Owner and Builder—H. W. Petersen, 1 South Hill Blvd., San Francisco.
Architect—Not Given.

Plans Being Figured.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. Fourteenth Ave. near Taraval St.
Two-story and basement frame and stucco residence (7 rooms).
Owner—J. H. Johnson, % Architect.
Architect—Chas Strothoff, 2274 15th St., San Francisco.

Plans Being Figured.
RESIDENCE Cost, \$7500
MILBRAE HIGHLANDS, San Mateo Co., Cal.
One-story and basement frame and stucco residence (5 rooms)
Owner—A. N. Arneson, 195 Lowell St., San Francisco.
Architect—Chas. Strothoff, 2274 15th St., San Francisco.

Plans Being Prepared.
ALTERATIONS Cost approx. \$15,000
SAN FRANCISCO. Pacific Ave. bet. Presidio Ave. and Walnut St.
Alterations to residence.
Owner—Ralph Lyon.
Architect—Warren Perry, 260 California Street.
Bids will be taken in about 30 days.

SCHOOLS

Plans Being Prepared.
SCHOOL Cost, \$200,000
RENTON, Washington.
Concrete and brick school (20 classrooms, assembly hall, seating 900; 2 gymnasiums).
Owner—Renton City School District.
Architect—William Mallis, Lyon Bldg., Seattle, Wash.

Preparing Preliminary Plans.
SCHOOL Cost, \$80,000
YUBA CITY, Sonoma Co., Cal.
Two-story Class C brick elementary school.
Owner—Yuba City Elementary School District.
Architect—Davis-Pearce Co., Grant and Weber Sts., Stockton.
Bond election will be called at a later date.

Preparing Working Drawings.
SCHOOL Est. Cost, \$180,000
SAN FRANCISCO. Claremont Blvd. and Taraval Street.
Two-story Class B reinforced concrete school.
Owner—City and County of San Francisco.
Architect—Dodge Reidy, Pacific Bldg., San Francisco.
Plans will be ready for bids in about sixty days.

OAKLAND, Cal.—George McMullin, 3223 E 10th St., Oakland, at \$9,419 submitted lowest bid to Board of Education, 104 Administration Bldg., 1025 Second Ave., to construct Maxwell Park School retaining wall, steps and grading at NE corner of Fleming and Monticello Aves.
Framing is a complete list of bids:
George McMullin, Oakland, \$9,419; (1) ded. \$2,269.
J. H. Fitzmaurice, Oakland, \$9,535; (1) \$3,150.
L. J. Immel, Oakland, \$9,665; (1) \$4,917.
Geo. Swanstrom, Oakland, \$10,273; (1) \$2,856.
T. D. Courtright, Oakland, \$11,197; (1) \$3,100.
John Kimble, Oakland, \$14,878; (1) \$5,150.
Bodenhammer Const. Co., \$24,800; (1) \$7,500.
Contract will be awarded Jan. 6.

Bond Election Planned.
SCHOOL Cost, \$20,000
CASTROVILLE, Monterey Co., Cal.
Reinforced concrete addition to grammar school.
Owner—Castroville Grammar School District.
Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Sub-Contracts Awarded.
GYMNASIUM Cont. Price, \$97,995
SAN JOSE, Santa Clara Co., Cal.
State Teachers' College grounds. Reinforced concrete men's gymnasium
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

Contractor—J. J. Grodem & Co., 1023 San Antonio Ave., Alameda.
Structural Steel—Schrader Iron Works 1247 Harrison St., San Francisco.
Cement—Pacific Portland Cement Co., Sutter St., San Francisco.
Mill Work and Lumber—Pacific Mfg Co., Monadnock Bldg., San Francisco.

Reinforcing Steel—Concrete Engineering Co., 1280 Indiana St., S. F.
As previously reported, plumbing and heating awarded to W. F. Serpa, 497 N-13th St., San Jose at \$15,525; electric work to Guilbert Bros. Elec. Co., 286 W-Santa Clara St., San Jose, at \$6355.

Preparing Preliminary Plans.
SCHOOL Cost, \$85,000
LOS ANGELES, Cal. Uno Drive School Site.
Two-story Class B school.
Owner—Los Angeles City School Dist. Plans by Owner.
Heating Engineer—Martin T. Hooper, Los Angeles.

Plans Completed.
SCHOOL Cost, \$300,000
ALTADENA, Los Angeles Co., Cal.
Lake Ave. near Mendocino St.
Reinforced concrete Junior High School.
Owner—City of Pasadena School Dist.
Architect—Marston & Mayburn, 25 S. Euclid Ave., Pasadena.

Plans Being Completed.
DORMITORY Cost, \$300,000
WEST LOS ANGELES, Cal. Hilgard Avenue.
Three-story and basement Class A reinforced concrete dormitory (160x 216 feet) (accommodate 35 girls).
Owner—University of Southern California, Los Angeles.
Architect—Douglas H. McEllan, Architects Bldg., Los Angeles.
Supervising Architect—Geo. Kelham, 315 Montgomery St., San Francisco
Bids will be taken about January 15, 1931.

Contracts Awarded.
SCHOOL Cost, \$70,000
CALISTOGA, Napa Co., Cal.
One-story Class C brick school (eight classrooms, assembly room, and shop).
Owner—California Grammar School District.

Architect—Davis-Pearce Co., Inc., Grant and Weber Sts., Stockton.
Tile roof, oil burning system, etc.
General Work
H. H. Henning, 1751 Berkeley Ave., Berkeley, at \$47,978
Plumbing and Heating
Ukiah Plumbing & Heating Co., Ukiah, at \$8541.

Electrical Work
Con Franke, 748 E. Weber St., Stockton, at \$3031.

Plans Being Figured—Bids Close Jan. 4 4:15 P. M.
SCHOOL Cost approx. \$400,000
OAKLAND, Alameda Co., Calif. 45th Ave. and Foothill Blvd. (Fremont High School Site).
Three-story and basement steel frame and concrete high school with tile roof.
Owner—City of Oakland School Dist.
Architect—Charles W. McCall, 1404 Franklin St., Oakland.

Plans Being Completed.
LIBRARY Cost, \$100,000
SANTA CLARA, Santa Clara Co., Cal.
University of Santa Clara.
Two-story reinforced library.
Owner—University of Santa Clara, Santa Clara.
Architect—J. J. Donovan, 1916 Broadway, Oakland.
Contractor—H. C. Miller, Santa Clara.
Sub-bids will be taken in three or four weeks.

Plans Being Figured—Bids Close Jan. 15, 8 P. M.
GYMNASIUM Cost, \$50,000
KENTFIELD, Marin Co., Cal.
Gymnasium (wood frame, roof trusses over gymnasium proper carried on steel columns) planting lawns and shrubbery, etc., at college grounds
Owner—Marin Junior College District.
Architect—A. A. Cantin, 544 Market St., San Francisco.

SAN FRANCISCO.—American Studios, Inc., 1060 Folsom St. at \$3,748 submitted lowest bid to city purchasing agent, 270 City Hall, to furnish and install stage fittings and draperies for the Presidio Jr. High School.
Following is a complete list of bids:
American Studios, Inc. \$3,748
J. L. Stuart Mfg. Co. 3,750
Armstrong Studios 4,500
Henceman Scenic Studio 4,850
Western Scenic Studio 4,908
Bids held under advisement.

Preparing Preliminary Plans.
SCHOOL Cost, \$250,000
SEBASTOPOL, Sonoma Co., Cal.
Two-story Class C brick high school.
Owner—Analy Union High School District.
Architect—Davis-Pearce Co., Grant and Weber Sts., Stockton.
Bond election will be called shortly.

BANKS, STORES & OFFICES

Preparing Plans.
OFFICES Cost, \$25,000
BURLINGAME, San Mateo Co., Cal.
Two-story steel frame and concrete office and store building.
Owner—Leo Escobes, 5486 Mission St., San Francisco.
Plans by Russell Coleman, 1404 Broadway, Burlingame.

To Be Done By Day's Work.
ALTERATIONS Cost, \$7500
OAKLAND, Alameda Co., Calif. 459
 12th Street.
 Alterations to building.
 Owner—Levy Estate Co., % Architect.
 Architect—F. F. Amundsen, 1128 Hearst
 Bldg., San Francisco.

Wracking Started.
ADDITION Cost, \$10,000
SAN FRANCISCO, 1637 Fillmore St.
 One-story brick addition to store.
 Owner—National Dollar Stores, premises.
 Architect—Bernard Joseph, 71 New
 Montgomery St.
 Owners will act as managers of
 construction and actual work will be
 started about Jan. 2.

Contract Awarded.
ALTERATIONS Cost, \$6500
SAN FRANCISCO, 533 Sutter St.
 Alterations to store (New front and
 interior work).
 Owner—L. E. Graham, 441 Post St.
 Plans by W. Lamb, 441 Post St.
 Contractor—Bras & Kuhn Co., 1919
 Bryant St.

To Be Done By Day's Work By Owner
RESTAURANT Cost, \$4000
OAKLAND, Alameda Co., Cal. NW
 East 12th St. and 3rd Ave.
 One-story frame restaurant.
 Owner—K. E. Bemis, 1962 San Pablo
 Ave., Oakland.
 Architect—Hardman & Russ, Berkeley
 Bank Bldg., Berkeley.

Plumbing and Heating Contracts
 Awarded.
OFFICES Cost, \$30,000
SAN FRANCISCO, NE Army and
 Missouri Streets.
 Two-story basement frame and
 stucco offices.
 Owner—Soule Steel Co., 1750 Army St.,
 San Francisco.
 Plans by Eng. Dept. of Owner.
 Contractor—Chas. Stockholm & Sons,
 Rusa Bldg., San Francisco.
Plumbing and Heating—James H.
 Pinkerton Co., 927 Howard St.,
 San Francisco.
 As previously reported, grading
 awarded to Sibley Grading & Teaming
 Co., 165 Landers St., S. F.

Bids To Be Taken About Jan. 24
BANK Cost, \$—
MONTEREY, Monterey Co., Cal. Loca-
 tion not selected.
 One-story and mezzanine steel frame
 and concrete bank.
 Owner—Monterey County Trust &
 Savings Bank.
 Architect—H. H. Winner Co., 580
 Market St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$8590
SAN FRANCISCO, N Bush St. bet.
 Kearny St. and Grant Ave.
 Alterations to offices.
 Owner—Pacific Telephone and Tele-
 graph Co., 140 New Montgomery.
 Plans by Eng. Dept. of Owner.
 Contractor—McDonald & Kahn, Fi-
 nancial Center Bldg.

Plans Being Prepared.
ALTERATIONS Cost, \$7500
SAN FRANCISCO, Second Street near
 Brannan
 Alterations and additions to present
 building.
 Owner—C. F. Weber & Co., 650 Sec-
 ond Street.
 Architect—John E. Norberg, 580 Mar-
 ket St.

Preliminary Plans Being Prepared.
STORE & OFFICES Cost, \$50,000
BERKELEY, Alameda Co., Cal.
 Two-story frame and stucco store and
 offices (brick exterior walls).
 Owner—Withheld.
 Architect—E. R. Snyder, 2101 Shat-
 tuck Ave., Berkeley.

Plans To Be Prepared.
REMODELING Cost, \$—
SANTA ROSA, Sonoma Co., Cal. 4th
 Street.
 Remodel present store building.
 Owner—Investment Properties Corp.,
 Alexander Bldg., San Francisco.
 Plans by Eng. Dept. of Lessee.
 Lessee—J. C. Penny Co.
 Work will not be started until 1932.

Preparing Working Drawings
NEWSPAPER BLDG. Cost, \$15,000
SOUTH SAN FRANCISCO, San Mateo
 Co., Cal. Grand Ave. near Maple
 Street.
 One-story reinforced concrete news-
 paper building (25x140 feet; com-
 position roof).
 Owner—Peninsula Newspapers, Inc.,
 Palo Alto.
 Architect—John McCool, 381 Bush St.,
 San Francisco.
 Will be known as "The Enterprise."

Plans Being Prepared.
BANK Cost, \$25,000
HOLLISTER, San Benito Co., Cal.
 One-story reinforced concrete bank.
 Owner—Bank of America.
 Architect—H. A. Minton, 525 Market
 St., San Francisco.

Contract Awarded.
STUDIO Cost, \$7500
OAKLAND, Alameda Co., Cal. 28th
 St. near Broadway.
 One-story brick and concrete studio.
 Owner—Waters & Hainlin Studios, 372
 11th St., Oakland.
 Architect—Frederick H. Reimers, 233
 Post St., San Francisco.
 Contractor—J. F. Altermatt 1000 Crag-
 mont, Berkeley.

Preparing Plans—Contract Awarded.
ALTERATIONS Cost, Approx. \$25,000
STOCKTON, San Joaquin Co., Cal.
 Main and San Joaquin Sts.
 Alterations to two-story Class C
 store.
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of Italy
 Bldg., Eddy and Powell Sts., San
 Francisco.
 Contractor—Lewis & Green, Bank of
 Italy Bldg., Stockton.

Plans Being Prepared.
STORE Cost, \$10,000
SAN JOSE, Santa Clara Co., Calif.
 Two-story frame and stucco store and
 residence.
 Owner—Della Magglore.
 Architect—Wolfe and Higgins, Realty
 Bldg., San Jose.

To Be Done By Day's Work.
ALTERATIONS Cost, \$4000
SAN FRANCISCO, 746 Folsom St.
 Alterations to offices.
 Owner—Thly Mfg. Co., Inc., 746 Fol-
 som Street.
 Architect—Not Given.

Plans Being Figured.
STORES Cost approx. \$75,000
OAKLAND, Alameda Co., Calif. SW
 19th and Broadway.
 Group of one - story steel frame and
 terra cotta shops and stores.
 Owner—Twentieth & Broadway Realty
 Co., Oakland.
 Architect—A. J. Evers, 525 Market St.,
 San Francisco.

Preparing Plans.
STORE BLDG. Cost, \$—
BAKERSFIELD, Kern Co., Cal. 1 and
 N. Nineteenth Sts.
 One-story and basement Class C brick
 store.
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of Italy
 Bldg., Eddy and Powell Sts., San
 Francisco.
 Lessee—J. J. Newberry Co.

THEATRES

Work Under Way.
REDECORATIONS Cost, \$—
SAN FRANCISCO, No. 1125 Market
 St. (Embassy Theatre)
 Redecorate theatre (new marquis,
 signs, etc.)
 Owner—Warner Bros., Inc., 243
 Golden Gate Ave., San Francisco.
 Plans by Eng. Dept. of Owner.
 Mgr. of Constr.—J. Agnew, Premises.
Carpentry—Ralph McIerlan and Co.,
 Hearst Bldg., at \$7000.
Painting and Decorating—Cliff Helms-
 berger Decorating Co., 7413 Bev-
 erly Blvd., Los Angeles, at ap-
 proximately \$15,000.

Sub-Contracts Awarded.
THEATRE Cost Approx. \$1,000,000
OAKLAND, Alameda Co., Cal. Broad-
 way near Hobart Street.
 Class A theatre building.
 Owner—Publix Theatres, Inc.
 Architect—Miller & Plueger, 580 Mar-
 ket St., San Francisco.
 Contractor—Geo. Wagner, 161 South
 Park, San Francisco.
Plumbing—Scott Co., 113 10th St.,
 Oakland.

Electrical Work—Radefinger Bros.,
 231 Fourth St., San Francisco.
Lumber—E. K. Wood Lumber Co.,
 Frederick & Reed Sts., Oakland
Cement, Sand and Gravel—Powell
 Bros., Harrison and Pearl Sts.,
 Alameda.

As previously reported, concrete
 piling awarded to Raymond Concrete
 File Co., Hunter-Dulin Bldg., S. F.;
 excavation to E. Catno, 1212 13th
 Ave., Oakland; reinforcing steel to
 Soule Steel Co., Rialto Bldg., S. F.;
 structural steel to Moore Drydock, Ft.
 of Adeline St., Oakland; sprinkler
 system to James Pinkerton, 927 How-
 ard St., S. F.; heating and ventilating
 to E. J. Corp., Ltd., 743 E.
 Washington St., Los Angeles.

Sub-Bids To Be Taken In Two Weeks.
THEATRE Cost, \$100,000
SAN MATEO, San Mateo Co., Cal.
 Two-story Class C concrete and steel
 theatre and store (to seat 1000;
 contain 4 stores).
 Owner—W. S. Leadley, 207 2nd St.,
 San Mateo
 Architect—S. Charles Lee, 2404 W.
 Seventh St., Los Angeles.
 Contractor—Leadley & Wiseman, 207
 2nd St., San Mateo.

Excavation and Foundation Bids To Be
 Taken Jan. 5.
OPERA HOUSE Cost, \$2,500,000
SAN FRANCISCO. Block bounded by
 Van Ness Ave., Franklin, Grove
 and Fulton Sts.
 Six-story Class A opera house, seating
 capacity 4000, standing room 500.
 Owner—City and County of San Fran-
 cisco (S. F. War Memorial).
 Architect—G. A. Lansburgh, 140 Mont-
 gomery St. and Arthur Brown, 251
 Kearny St., San Francisco.
 Manager of Constr.—Lindgren &
 Swinerton, 225 Bush St., S. F.

Excavation and Foundation Bids To Be
 Taken January 5.
LEGION BLDG. Cost, \$2,500,000
SAN FRANCISCO Civic Center.
 Four-story and basement concrete
 Class A Legion Building.
 Owner—City and County of San Fran-
 cisco (S. F. War Memorial).
 Architect—G. A. Lansburgh, 140 Mont-
 gomery St. and Arthur Brown, 251
 Kearny St., San Francisco.
 A. Wagstaff, 451 Montgomery St.,
 is in charge of the memorial drafting
 rooms.

WHARVES AND DOCKS

STOCKTON, San Joaquin Co., Cal.—Fire destroyed Union Oil Company and Associated Oil Company's loading docks at Harrison and Lindsey Sts. They plan to rebuild immediately.

MISCELLANEOUS CONSTRUCTION

SACRAMENTO, Cal.—J. R. Reeves, 12th and American River, Sacramento at \$5,713.34 awarded contract by H. G. Denton, city clerk, for grading and leveling off roadway, parking area and hangar area at the Municipal Airport.

Following is a complete list of bids:

J. R. Reeves, Sacramento, \$3,997; (add for culvert), \$1,716.

M. J. Treaster, Sacramento, \$4,404; (add for culvert), \$1,760.

A. Teichert & Son, Sacramento, \$4,743.

Low Bidder.

UNDERTAKING PARLORS \$40,000 SAN FRANCISCO. Sacramento Street bet. Van Ness Ave. and Polk St. Three-story frame and stucco undertaking establishment and apartments.

Owner—Jos. Hagan, 178 Sacramento. Architect—Henry C. Smith and A. R. Williams, Humboldt Bank Bldg. Low Bidder—Reavey & Spivock, Shell Oil Bldg.

Mechanical bids are held under advisement.

FRESNO AND KINGS COUNTIES

—State Railroad Commission authorized San Joaquin Light & Power Company, the Great Western Power Company, and the Pacific Gas & Electric Co. to proceed with a \$7,500,000 installation program of additional gas and electric facilities. The construction will include a new steam and electric power plant at Herndon, 50 miles of natural gas transmission conduit from Kettleman hills to Herndon, 65 miles of gas transmission line from Fresno to Merced, and a new electric substation at Merced.

EUREKA, Humboldt Co., Cal.—Until January 13, 2 P. M., bids will be received by F. M. Kay, clerk of Board of Supervisors, for moving certain buildings in town of Garberville. Certified check of 5% required with bid. Specifications obtainable from Frank Kelly, county surveyor.

ALAMEDA, Alameda Co., Cal.—Until Jan. 3, 9:30 A. M., bids will be received by W. Varcoe, City Purchasing agent, for painting and spraying fences at Lincoln Park Nursery on Fernside Blvd., pump house at Jackson Park, fence at McKinley Park and pump house, etc., at Washington Park. Plans and specifications obtainable at the office of the purchasing agent.

MISCELLANEOUS SUPPLIES AND MATERIALS

SACRAMENTO, Cal.—Following bids received by H. G. Denton, city clerk, for furnishing three trucks:

Ellsworth Harrold, Sacramento, (Ford)	\$2,388
Moeller Auto Sales Co., Sacto., (Ford)	2,432
Universal Motor Co., Sacto.	2,653
Morrison Chevrolet Co., Sacto., ..	2,247
Emich Winchel Co., Sacramento (International)	3,966
General Motors Truck Co.	3,386

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1664).

R-3444-S ENGINEERS and draftsmen, experienced in industrial and power plant work, particularly piping; also electrical draftsmen experienced in power and lighting installations. Salary \$225-250 per mo. Apply by letter. Location, Southern California.

R-3424-S CHEMIST, technical graduate, preferably with advanced degree, to review French and German technical literature in connection with patent causes. Permanent. Salary open. Location, Bay Region.

R-3446-S PERSONNEL EXECUTIVE 20-50 years, to have charge of and assist in the administration of division of personnel and organization. Must be thoroughly trained and experienced in this type of work and possessed with tact, good judgment and integrity. Will be responsible to Chief of Division. Salary \$500 a month. Apply by wire if outside of Bay Region as applications must be on file by December 26.

K-333-W-2071-C-S ASPHALT ENGINEER, graduate civil engineer, single, not over 32, with experience on hot mixed type sheet asphalt, asphaltum concrete, penetration preventing by the grouting method, asphalt emulsions, ability to decide proper percentages of various grades of stone, sand, cement and asphalt to secure a road of maximum density, etc. Must be familiar with asphalt literature. Salary \$3600-4000 a year. Apply only by letter. Location, India.

R-3429-S ENGINEER, 35-45 years old, with forceful personality and ability to deal with plant executives, for production manager of company operating several scattered plants in

California. Must have operating experience. Salary \$5000-6000 per year. Apply by letter. Headquarters, San Francisco.

N. Y. CITY AUTHORIZED TO BUILD TOLL STRUCTURES

The Appellate Division, in a decision rendered Nov. 21, sustained the validity of the action of the board of estimate and apportionment of New York City in starting plans for the construction of the Triborough bridge, the Brooklyn - Staten Island vehicular tunnel, and the midtown tunnel in Manhattan and upheld to city's right to charge tolls for the use of these traffic outlets.

The majority opinion said: "Not only had the city the toll-fixing power to provide for the construction of revenue-producing public improvements, such as bridges and tunnels, but the exercise of such power in the present instance has been ratified and confirmed by the legislature."

HANGARS BUILT OF LAMELLA STEEL TYPE SECTIONS

Short steel sections of the lamella type, which can readily be assembled by unskilled labor, are now being distributed by the Lamella Roof Syndicate, Inc., 45 West 45th St., New York City, for use in many types of buildings and for the construction of airplane hangars. For the latter purpose the lamella truss, when assembled, is covered with galvanized metal or any of a number of other types of surfacing. Advantages claimed for this type of hangar include easy transportation to the site, simple foundations, quick assembly and dismantling, and a form which minimizes the effect of wind pressure. The hangar is designed for dead load plus a snow load of 15 lb. per square foot and a wind load of 25 lb. per square foot. In addition, a monorail crane can be hung from the center of the truss.

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DAILY PACIFIC BUILDER

The only daily construction newspaper affording complete coverage of the construction activities in Central and Northern California—featuring work contemplated, bids wanted, bids opened, contracts awarded, sub-bids wanted and sub-contracts let on all types of building construction; bridges, dams and harbor works, irrigation projects; machinery and equipment; water works and supplies; business opportunities; building permits; building contracts, mechanics' liens; acceptances, etc., etc.

Keep informed on construction developments in Central and Northern California, and the major projects in Southern California, the states of Oregon, Washington, Nevada and Arizona.

Engineering News Section

BRIDGES

SAN JOSE, Santa Clara Co., Cal.—San Jose Paving Co., awarded contract by Southern Pacific Railroad, 65 Market St., San Francisco, to construct Park Avenue Subway, to have overhead clearance of 15 feet, with roadway width of 30 ft., 6 ft. sidewalk on each side; length of barrel between approaches to be 100 feet. Project involves:

- 15,500 cu. yds. excavation;
- 514 cu. yds. 1-2-4 reinf. concrete;
- 130 cu. yds. 1½-1½-1½ do.;
- 42 cu. yds. reinf. conc. precast;
- 2,327 cu. yds. unreinf. concrete;
- 450 cu. yds. conc. paving, 1-½-3-18,000 lbs. reinforcing steel.

The amount of the bid as yet has not been disclosed, though the railroad previously announced its estimate of the cost of the structure was \$148,900. There was seventeen other bidders.

OROVILLE, Butte Co., Cal.—Board of Supervisors deferred action for authority to build a private bridge over Big Chico Creek, on request of R. W. Wilver, pending a formal decision from the state attorney's office.

SANTA CRUZ, Santa Cruz Co., Cal.—Until January 7, 2:30 P. M., bids will be received by H. E. Miller, County Clerk, to construct either a timber bridge with reinforced concrete floor or steel bridge with reinforced concrete floor near Felton Railroad station across the S. P. tracks, Zayante Creek and Zayante Road in San Lorenzo road district. Plans and specifications obtainable from L. Bowman, County Surveyor, on deposit of \$3.00. Certified check 10% required with bid. See call for bids under official pro-

SANTA ROSA, Sonoma Co., Cal.—Reca and Coletti, San Rafael, at \$173,255 awarded contract by Joint Highway District No. 16 to construct steel bridge over the Russian River, 1½ miles above Jenner, involving two 145 ft. steel deck truss spans and nine 60 ft. steel girder spans with concrete deck and steel H beam piling and two concrete abutments, one 40 ft. and another 30 ft. Project involves:

- 58,000 cu. yds. roadway excav., 32c.
- 27,000 sta. yds. overhead 2c.
- 6,000 ft. property fence, 10c.
- 10 gate, \$18.
- 116 ft. 12-in. corr. pipe, 2c.
- 70 ft. 24-in. do., \$3.75.
- 180 ft. 30-in. do., 8c.
- 17 cu. yds. "A" concrete (culverts) \$16.10.
- tremie, \$10.
- bridge complete, fencing, etc., \$173,255.

SAN JOSE, Santa Clara Co., Cal.—City Manager C. B. Goodwin announces construction of a bridge over Guadalupe Creek linking West Virginia and Home Sts. will be undertaken during 1931.

DREDGING, HARBOR WORKS & EXCAVATIONS

REDWOOD CITY, San Mateo Co., Cal.—Until January 6, 3 P. M., bids will be received by U. S. Engineer Office, Customhouse, San Francisco, for

dredging in Redwood Creek. Specifications obtainable from above office.

SAN FRANCISCO.—Until January 16 bids will be received by U. S. Engineer's Office, Custom House, for removing existing Jetty and constructing new jetties and dredging in Noyo River. Further information obtainable from above.

SACRAMENTO, Sacramento Co., Cal.—Until January 5, 3 P. M., bids will be received by U. S. Engineer's Office, California Fruit Bldg., Sacramento, to dredge channel, 9 feet deep and approximately 100 feet wide thru the shoal in Middle River, near Millard Island. Further information obtainable from above.

SAN DIEGO, Cal.—Until 3 P. M., Jan 5, bids will be received by the U. S. Engineer, 751 S. Figueroa St., Los Angeles, for dredging approximately 825,000 cu. yds. material in San Diego Harbor in an area around the municipal wharf, covering about 185 acres. Plans and specifications may be obtained from the U. S. Engineer, Major W. H. Lanagan, at above address, Los Angeles.

LONG BEACH, Cal.—Until 3 P. M., Jan. 7, bids will be received by the U. S. Engineer, 751 S. Figueroa St., Los Angeles, for dredging approximately 1,540,000 cu. yds. material in Long Beach Harbor and in the Gertrites Channel turning basin, in accordance with plans and specifications which may be obtained at the above address. Major W. H. Lanagan is the United States Engineer.

LOS ANGELES, Cal.—Until 3 P. M., Jan. 6, bids will be received by the U. S. Engineer, 751 S. Figueroa St., Los Angeles, for dredging approximately 1,400,000 cu. yds. material in the east basin channel, Los Angeles Harbor, and in Cerritos Channel to hook up with similar work to be done in Long Beach Harbor. Plans and specifications may be obtained from the office of the engineer, Major W. H. Lanagan, at above address.

SAN FRANCISCO.—Following is a complete list of the bids received by U. S. Engineer's Office, Custom House, to dredge Oakland harbor:

Longview Dredging Co.	2625
United Dredging Co. (per cu. yard)	\$2629
San Francisco Bridge Co.	21
Hydraulic Dredging Co.	21

Estimate of \$272 submitted by Government, using government plant and hired labor; 691,075 cu. yds. involved.

IRRIGATION PROJECTS

CHELAN, Wash.—Until 1:30 P. M., Jan. 9, bids will be received by the Howard Flat Irrigation District, Chelan, Wash., for irrigation construction as follows:

- Construction of a concrete pump house with pumping equipment, including two 700 h. p. centrifugal pumps.
- 6,200 lin. ft. 30-in. steel pipe, ¼-in. thick;
- 22,530 lin. ft. 30-in. steel pipe, 3/16-in. thick;

- 1,322 lin. ft. 24-in. steel pipe, 3/16-in. thick;
- 1,325 lin. ft. 20-in. steel pipe 3/16-in. thick;
- 9,510 lin. ft. 16-in. steel pipe, 3/16-in. thick;
- 15,765 lin. ft. 12-in. 8-gauge (B.W.G.) pipe;
- 6,154 lin. ft. 8-in., 8-gauge (B.W.G.) pipe;
- 2,083 lin. ft. 6-in., 8-gauge (B.W.G.) pipe;
- 39 lin. ft. 4-in., 8-gauge (B.W.G.) pipe;
- complete with valves, fittings, hydrant, air valves, blow-off valves and appurtenances.

Bids may be obtained from Willis T. Batcheler, Inc., consulting engineer, 1903 Exchange Bldg., Seattle, Wash., upon deposit of \$10.00. Chas. R. Sargent is secretary. The date above has been changed from Dec. 19 as originally set.

MACHINERY AND EQUIPMENT

VENTURA, Ventura Co., Cal.—Following is list of bids opened by city council to furnish one vertical dry pit sewage pump and motor. The bids were:

- Evren-Jackson Co.—Pump completely installed, \$1765; pump only, \$1615.
 - DeLaval Steam Turbine Co.—\$2750 installed; \$2350, pump only.
 - Buffalo Steam Pump Co.—\$2299, pump installed; \$1613, pump only.
 - Samuel A. Bray, Ventura—\$1600, pump installed; \$1400, pump only (Fairbanks type equipment).
 - A. T. Mead—(1) \$2746, (2) \$2525, (3) \$2492 (American Well Works equipment). This bid was not submitted on the basis of the others. The items are for his own alternate figures.
- Bids held under advisement.

GRIDLEY, Butte Co., Cal.—Until January 12, 9 P. M., bids will be received by J. P. Lewis, City Clerk, to furnish a Diesel engine generating unit with auxiliary pumps, motors and equipment and materials. Plans and specifications obtainable from city clerk. Certified check of 10% required with bid.

BRAWLEY, Imperial Co., Cal.—Until 7:30 P. M., Jan. 5, bids will be received by the city council for furnishing one truck of rated capacity of from one and one-half to two and one-half tons, equipped with dual tires on rear, Wood hydraulic hoist, and tight body of lawful width and maximum length to properly fit truck. Depth of body to be four feet. Rear end of body to be properly equipped for dumping load. On each side of the body, at the center, the upper two feet is to be provided with a gate for loading. If standard frame and wheel base is such that a sixteen foot body cannot be properly installed thereon, alternate bids may be submitted with frame and wheel base altered for sixteen foot body. O. May Juvenal, city clerk.

COMPTON, Los Angeles Co., Cal.—Until 7 P. M., Jan. 6, bids will be received by the city manager, A. B. Gridley, for furnishing one 1½-ton truck with cab, flat body with stakes and full equipment.

DENVER, Colo.—Until 2 P. M., Jan. 8, bids will be received by the Chief Engineer, Bureau of Reclamation, Denver, Colo., for one dragline excavator, capacity $\frac{3}{4}$ -cu. yd., gasoline-engine driven, 35 ft. boom with 10-ft extension, 24-in. caterpillar treads, with one $\frac{3}{4}$ -cu. yd. bucket, complete. The bidder shall state the number of calendar days within which he agrees to deliver excavator and accessories f. o. b. cars at factory shipping point specified. Further information may be obtained from the office of S. O. Harper, Acting Chief Engineer, 1441 W. 10th St., Denver, by applying for Specifications No. 498-D. Proposal guaranty, 10%.

RAILROADS

OAKLAND, Alameda Co., Cal.—City Council has entered into an agreement with the Southern Pacific Railway to construct underpass at the crossing of the S. P. tracks and Seventh St. Same to be handled jointly by the city and the railroad.

OAKLAND, Alameda Co., Cal.—The Southern Pacific Company have completed plans for the new \$205,000 Seventh Street Subway and bids will be called for immediately. The cost is to be borne equally by the city and the railroad.

FIRE EQUIPMENT

LAGUNA BEACH, Orange Co., Cal.—Until 5 P. M., Jan. 7, bids will be received by the city council for furnishing one 500-gallon triple combination pumping fire engine. Specifications may be obtained from the city clerk, G. W. Frier. Bidder must submit his own specifications, however, and bids will be received at the same time for the purchase of a used Reo triple combination pumping fire engine, which may be seen at the fire house, Laguna Beach.

RESERVOIRS AND DAMS

UKIAH, Mendocino Co., Cal.—Until January 7, 8 P. M., bids will be received by Fred Bosworth, City Clerk, to furnish 2 5000 cu. ft. Riveted Gas Tanks, 6" dia x 30' long, $\frac{3}{8}$ " shell, $\frac{1}{2}$ " and $\frac{5}{8}$ " heads. Equipped with 1 11x 15 manhole in head, 3" forged steel flanges, 1 $\frac{1}{2}$ " dial pressure gauge, designed for 90 lb. per sq. in. working pressure and built in accordance with A. S. M. E. Code for Unfired Pressure Vessels. F. o. b. cars, Ukiah, Calif.

Certified check of 10% required with bid. Specifications and further information obtainable from above.

HOOVER DAM—The Bureau of Reclamation has made further announcement of the specifications for the Hoover Dam for which bids are to be received by the department at Denver, March 4. According to the specifications, preference will be given domestic articles and materials. Unless otherwise stated in the bid it will be understood domestic articles or materials will be used and foreign articles or materials will not be permitted unless they are of better quality or being equal in quality furnished at lower cost to the government and unless domestic articles or materials are not available.

Among the materials to be furnished by the government to the contractor f. o. b. at the delivery yard near Boulder City are: cement, reinforcement bars and rails, anchor bars, rods and bolts, metal pipe and fittings, conduit castings, plate steel conduit linings, copper sheets, grades and

hoists, needle valves, traveling cranes, machinery, structural steel, bridges and other structures, sheet piling, all doors, windows, metal floor plates and stairways, steel partitions, paint, plumbing, hardware, hollow tile, roofing materials, corrugated metal pipe, thermometers, forms of concrete relief work and steel pipe forms for concrete bulkhead gate supports.

The materials to be furnished by the contractor include: sand, gravel, cobbles, oil, lumber, spikes, nails, liner plates for tunnels, wire, water, compound for cooling pipes and brazing and soldering materials.

The contractor must haul all his materials as well as those delivered by the government. The contractor will have to bear the cost of unloading, hauling, and furnishing his own materials. These costs are to be included in the bid. Sand, gravel and cobbles are to be obtained by the contractor from natural deposits on the Arizona side of the Colorado river about eight miles upstream from the damsite.

Twelve traveling cranes will be required for installation of machinery.

The two steel bulkhead stoney gates will be 30x30 ft. and will be installed at the downstream end of the inner diversion tunnels to provide access to the tunnels for inspection and repairs. Each gate will be 50 ft. high, 64 ft. $\frac{7}{8}$ -in. wide, and made up of structural steel plate circles 6 ft. deep. They must be mounted on caterpillar roller cranes with counterweight hangers. There will be 56 hydraulic gates.

There will be four intake concrete towers with a total height of 341 ft. One cylinder gate will be installed in each tower, the outside diameter being 31 ft. and the height of the gate 10 feet, $\frac{1}{2}$ in. made of steel casting. Twelve 8x10 ft. metal shutter gates will be provided for each tower and are to be used for closing the water passages for repairs. Plans now contemplate that 40 72-in. needle valves will be installed.

According to the specifications the contractor must maintain camps at Boulder City. Certain blocks will be set aside there for his use for office and headquarters buildings, warehouses, store, hospital, boarding houses and homes for employees.

There will be on charge for ground rental, but reasonable charge will be made for services and facilities furnished by the government for the benefit of the contractor, such as water and sewerage systems, electricity, and fire and police protection.

IRVINE, Orange Co., Cal.—H. W. Rohl Co., 4351 Alhambra Ave., Los Angeles, awarded contract by Irvine Co. at about \$55,000 for constructing an earth fill dam in Peters Canyon, about $\frac{1}{2}$ miles southwest of Irvine Park. Construction will start about Dec. 29. The reservoir created will

occupy the site of the old Orange county golf course, and will impound about 11,000 acre feet of water. Plans were prepared by Roy Browning, engineer for the Irvine Co. The work will involve steam shovel and truck work.

GLENDALE, Los Angeles Co., Cal.—The city council has adopted a resolution asking the county supervisors for financial aid in constructing the Gorietta reservoir in Verdugo Woodlands, estimated to cost \$350,000. The plea was made on the grounds that the reservoir is virtually a flood control measure.

LOS ANGELES, Cal.—E. C. Eaton, chief engineer of the Los Angeles County flood control district, to prepare plans and specifications for the three dams to be built in the San Gabriel Canyon, including check dams, spreading grounds and other appurtenant works in the project designed to supplant the San Gabriel High Dam which the state rejected. A resolution was also adopted directing the issuance of a block of bonds of the original \$25,000,000 issue, amounting to \$5,000,000. The flood control department attorneys will immediately institute a friendly suit to compel Chairman of the Board Henry Wright to sign the bonds. The plans will be prepared concurrently with the suit in order that no time may be lost. Vincent is attorney for the flood control department, with Roy Dowds of the County Commissioner's office, associated.

BOULDER CITY, Nev.—Contractors who have applied to the Chief Engineer of the Bureau of Reclamation at Denver, Colo., for plans and specifications of the Hoover Dam for which bids are to be opened at Denver on March 4 at 10 A. M., are:

Lynn S. Atkinson, Jr., Edwards & Wilder Bldg., Los Angeles, and 9135 Russett Ave., Oakland.

Fisher, Ross, McDonald & Kahn, 1204 Spring Arcade Bldg., Los Angeles. Meritt-Chapman & Scott Corp., P. O. Box 698, San Pedro, Calif.

Utah Const. Co., Phelan Bldg., San Francisco.

W. A. Bechtel Co., 155 Sansome St., San Francisco.

Kaiser Paving Co., Latham Square Bldg., Oakland.

Winston Bros., 520 Alaska Bldg., Seattle, and Minneapolis, Minn.

General Const. Co., 552 Colman Bldg., Seattle, Wash.

Bates, Rogers & Foley, St. Paul, Minn.

Drundel Corp., Baltimore, Md.

The Carleton Co., New York, N. Y.

The Foundation Co., New York, N. Y.

Hydraulic Engineering Co.

Plans will be available at the Denver office or at the Bureau of Reclamation at Washington, D. C., after January 10.

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.

Phone GARfield 4374

San Francisco

LOS ANGELES, Cal.—Calls for bids for the driving of 500 ft. of untimbered tunnel and 100 ft. of timbered tunnel at each of San Gabriel dams, No. 2 and No. 3, issued by the board of supervisors, have been withdrawn by the board and the chief engineer, E. C. Eaton, authorized to proceed with the work by force account.

BERKELEY, Alameda Co., Calif.—Robert Henney, 1654 Capistrano Ave., Oakland, at \$1,302.50 submitted low bid to the city council to construct a dam in Cragmont Slide Area and drill bores to release sub-surface water. Complete list of bids follows:
 Robert Henney..... \$1,302
 L. J. Immel..... 2,070
 T. D. Courtright..... 2,502
 Ely & Coar..... 2,750

SEWERS AND SEWAGE DISPOSAL PLANTS

OAKLAND, Cal.—As previously reported, bids will be received by Frank C. Merritt, city clerk, until December 31, 12 noon, to construct sewers in portion of Foothill Blvd., 84th Ave., Iris St., Dowling St. and Blanche St. Project involves:

- (a) 285 lin. ft. 24-inch pipe sewer;
- (b) 606 lin. ft. 8-inch pipe sewer;
- (c) 6 manholes.

Bond of one-fourth the amount of the contract price required of the successful bidder. Specifications on file in office of clerk. Walter N. Frickstad, city engineer.

LOS ANGELES, Cal.—The city council has before it the matter of ordering the \$6,000,000 sewer bond issue, defeated at the last election, placed on the primary ballot next spring. The health commission has proposed the issue as an urgent necessity.

APTOS, Santa Cruz Co., Cal.—An election will be held early next year to vote bonds of \$56,000 for the construction of a pumping and screening plant and main trunk line sewer to serve district. William H. Oliver, engineer Soquel, has already completed plans and specifications.

SAN JOSE, Santa Clara Co., Cal.—City Engineer Wm. Popp prepares plans for sanitary sewer in Delmas Ave., bet. Snyder Ave. and Willow St., property owners having petitioned for the work.

SAN MATEO, San Mateo Co., Cal.—City council contemplates election in April to vote bonds of \$50,000 to finance construction of an outfall sewer.

WATER WORKS

LOS ANGELES, Cal.—Engineering Board of Review of the Metropolitan Water District, composed of three internationally famous engineers, has endorsed the Parker route for the \$20,000,000 Colorado river aqueduct, which will bring enough domestic water to the Los Angeles metropolitan area from Boulder dam to supply the needs of 6,000,000 people.

HAWTHORNE, Los Angeles Co., Cal.—Bids for furnishing cast iron pipe received by city council follow:
 (1) 5000 ft. 2-in. cast iron pipe;
 (2) 5000 ft. 4-in. cast iron pipe;
 (3) 5000 ft. 6-in. cast iron pipe;
 The bids were:
 American Cast Iron Pipe Co.—(1) 17.7c, (2) 41.5c, (3) 61.5c.
 C. G. Clausen & Co.—(1) 20.75c, (2) 46.25c, (3) 65.75; alternate bid: (2) 39.5c, (3) 60.5c.

Crane Co.—6 ft. lengths—(1) \$16.95 per C ft.

National Cast Iron Pipe Co.—(1) 21c, (2) 45.5c, (3) 60.5c.
 Pacific Pipe Co.—(3) flange pipe, \$31 per C ft.
 Pacific States Cast Iron Pipe Co.—5-ft lengths—(1) 19c, (2) 35.5c, (3) 59c; 15-ft lengths—(1) 20.5c.
 U. S. Pipe & Foundry Co.—(1) 20c, (2) 45.5c; bidding on 15-ft lengths, B & S.—(1) 21.5c, (2) 13-ft. lengths, 41.6c, (3) no bid
 Bids taken under advisement.

EUREKA, Humboldt Co., Cal.—Until January 6th, 5 P. M., bids will be received by city council to construct wooden water tank to be located on Harris St., between E and F Sts. Plans and specifications on file in office of Superintendent of Public Works, 524 D St. Certified check of 10% required with bid.

LOS ANGELES, Cal.—Western Pipe & Steel Co., 5717 Santa Fe Ave., submitted low bid to city purchasing agent, Thomas Oughton, Dec. 26, at prices shown below, for welded steel pipe under Specifications No. 2286. Bids were taken on the following items:

- (1) 1560 ft. laying length, 51-in. welded steel pipe;
- (2) 1560 ft. laying length, 51-in. welded steel pipe, double dipped in McEverlast steel water pipe coating;
- (3) 1560 ft. laying length, 51-in. welded steel pipe with not more than two girth seams and only one longitudinal seam;
- (4) 1560 ft. laying length, 51-in. welded steel pipe identical with Proposal No. 3, except that the dipping shall comply with Proposal No. 2.

The bids were:
 Western Pipe & Steel Co.—Elec. welded—(1) \$6.55, (2) \$6.35, (3) \$7.05, (4) \$6.85; net. Delivery, start Feb. 2, complete Feb. 12.

Consolidated Steel Corp.—(1) \$7.75, (2) \$7.60, (3) and (4) no bids; net. Delivery, start 35 days, complete 45 days.
 Standard Boiler & Steel Works—Standard acetylene welded—(1) and (2) no bids, (3) \$8.30, (4) \$8; 1% 30 days after delivery trenchside; delivery to start Jan. 31 and be completed April 30.

L. A. Mfg. Co.—elec. welded—(1) and (2) no bids, (3) \$8.60, (4) \$8.41; net. Delivery to start Feb. 2 and be completed Feb. 28.

REDWOOD CITY, San Mateo Co., Cal.—United States Pipe & Foundry Company, Monadnock Bldg., San Francisco, awarded contract at \$6685 by city council to furnish 6000 feet 8-in and 3000 feet 6-in. cast iron water pipe.

STREETS AND HIGHWAYS

REDWOOD CITY, San Mateo Co., Cal.—W. O. Tyson, 42 Jefferson St., Redwood City, awarded contract at \$6531 by city council to improve Warwick street from Edgewood Road in Redwood City to Eaton Avenue in San Carlos. Western Paving Company, San Francisco, next low bidder at \$6827.

SANTA ANA, Orange Co., Cal.—Until January 5, 7:30 P. M., bids will be received by City Council to improve Washington Avenue between Baker and Artesia Street, involving grading and cement concrete walks. Approximate quantities are (1) 4873 sq. ft. 3 1/2-in. walk incl. grading; (2) 40 sq. ft. 5 1/2-in. walk including grading; 1911 Act. C. L Jenken, city engineer. Further information obtainable from above.

SAN BERNARDINO, San Bernardino Co., Cal.—The County Board of Supervisors has ordered the paving of Mt. Vernon Ave. to connect with the Riverside-Redlands Highway, being an extension of Mt. Vernon Ave. and I St., Colton, also known as the Cooley Rd. and the Redlands Rd. The pavement will be 6-in. asphaltic concrete, 22 ft. wide. James W. Cole, county highway commissioner, will supervise construction.

SANTA CLARA, Santa Clara Co., Cal.—City Council declares intention (22-D) to improve Harrison, Lewis, Scott, Reeve, Wistar, Monroe, Jackson Washington, Pierce, Benton Sts. and Railroad Ave. involving grading; asphaltic concrete pavement laid on a layer of quarry waste; Portland cement concrete curbs, drop curbs, gutters, sidewalks and driveways; vit. clay pipe, sanitary sewers and Wye branches; laterals; sanitary sewer manholes. Bond Act 1915, Imp Act 1911. Hearing January 5. A. J. Cronin, city clerk. George Sullivan, city engineer.

MODESTO, Stanislaus Co., Cal.—City Council passed an ordinance authorizing Frank J. Rossi, city engineer to start work on construction of new sewers in the industrial district to cost approximately \$16,000.

SAN FRANCISCO.—Bureau of Engineering, Department of Public Wks, 3rd floor, City Hall, completes specifications to improve Salinas Avenue from Wheat St. easterly, involving:
 (a) 70 lin. ft. armored conc. curb;
 (b) 20 lin. ft. 6-inch V. C. P. side sewer;
 (c) 1,400 sq. ft. asph. conc. pavement, consisting of 2-in. surface on 6-in. class F concrete base.
 Estimates cost \$550.

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SAN FRANCISCO.—Bureau of Engineering, Department of Public Wks, 3rd floor, City Hall, completes specifications to improve Santiago Street bet. 36th and 37th Aves., involving:

- (a) 254 lin. ft. armored conc. curb;
- (b) 105 lin. ft. 6-inch V.C.P. side sewer;
- (c) 4,705 sq. ft. asph. conc. pavement, consisting of 2-in. surface on 6-in. class F concrete base.

Est. cost \$2,300.

SANTA BARBARA, Cal.—Until January 2, 1:30 P. M., bids will be received by city council to improve Calle Poniente, between Valerio St. and its north terminus. Project involves:

- (1) 22,364 sq. ft. 4-in. asph. concr. paving, incl. grading;
- (2) 420 ft. 6-in. house sewers;
- (3) 548 ft. 6-in. vit. sewer.

Specifications obtainable from city engineer.

SANTA ANA, Orange Co., Cal.—Plans for a grade separation structure to be built under the tracks of the Southern Pacific Ry. and the Santa Fe Ry. at 4th St., have been completed by the office of C. L. Jenken, city engineer. The project is to be built under the Matton Act, the district having been designated as A. & E. D. No. 8. Heting has been commenced until Jan. 5. The proposed work will consist of a reinforced concrete grade separation structure with incidental curb, walk, paving, surfacing, and concrete storm drain. The estimated cost is \$150,000.

PLUMAS COUNTY, Calif.—Charles Harlowe, 378 Belmont, Oakland, submitted low bid to U. S. Bureau of Public Roads, San Francisco, to grade 7.29 miles of Section E, Route 25, Quincy-Beckwith National Forest Highway in Plumas County, involving 29 acres clearing, 73,180 cu. yds. unclass. excavation, 660 cu. yds. struct. excavation, 97,900 cu. yds. overhead, 7,942 miles finishing, 55 M.E.M. treated timber in place, 1600 lin. ft. treated timber piling in place, 100 cu. yds. concrete in place, 1250 lbs. reinf. steel in place, 2322 lin. ft. corr. metal pipe in place, 655 sq. yds. bit. wearing surface in place, 102 right of way monuments. Complete list of bids follows:

- (a) Untreated piling;
- (b) Treated piling.

Chas. Harlowe, Oakland.....	(a) \$64,938
	(b) 64,413
O. A. Lindberg, Stockton.....	(a) 67,599
	(b) 67,784
Isbell Const. Co., Carson City, Nevada.....	(a) 69,721
	(b) 70,971
C. R. Johnson, Portland.....	(a) 75,655
	(b) 75,955
Finnell Co., Inc., Sacto.....	(a) 73,688
	(b) 76,373

Taken under advisement.

KERN COUNTY, Calif.—Lilly, Willard & Biasotti, Stockton, at \$18,696 submitted low bid Dec. 30 to State Highway Commission to grade and surface portions of 3.0 miles between Harts Station and 3 miles east, involving 134 sta. grading existing shoulders; 25,500 cu. yds. imp. borrow; 735 sq. yds. subgrade; 1,600 tons broken stone (waterbound mac. base); 700 tons broken stone (bitum. mac. surface); 35 tons emulsified asphalt; 5.75 miles move and reset property fences; 213 lin. ft. laminated timber guard rail; 16 monuments; 156 sta. finishing roadway. Complete list of bids follows:

Lilly, Willard & Biasotti.....	\$18,696
Larkin Bros., Galt.....	19,176
Valley Paving & Const. Co., Visalia.....	21,329
A. Teichert & Sons, Sacto.....	22,327
Peter McHugh, San Francisco.....	23,030
Hartmann Const. Co., Bakersfield.....	25,131
F. W. Nighbert, Bakersfield.....	25,509

SAN FRANCISCO.—Bureau of Engineering, Department of Public Wks, 3rd floor, City Hall, completes specifications to improve 38th Avenue bet. Noriega and Ortega Sts., involving:

- (a) 533 lin. ft. armored conc. curb;
- (b) 400 lin. ft. 6-inch V.C.P. side sewer;
- (c) 11,860 sq. ft. asph. conc. pavement consisting of 2-in. surface with 6-inch class F base.

Estimated cost \$6,000.

SAN FRANCISCO.—Bureau of Engineering, Department of Public Wks, 3rd floor, City Hall, completes specifications to improve Broadway Street bet. Shields and Sargeant Aves., involving:

- (a) 175 lin. ft. armored conc. curb;
- (b) 45 lin. ft. 6-inch V.C.P. side sewer;
- (c) 2,925 sq. ft. 6-in. class E concrete pavement.

Estimated cost \$2,600.

SAN FRANCISCO.—Bureau of Engineering, Department of Public Wks, 3rd floor, City Hall, completes specifications to improve Santiago St. bet. 41st and 44th Avenues, involving:

- (a) 347 lin. ft. armored conc. curb;
- (b) 325 lin. ft. 6-inch V. C. P. side sewer;
- (c) 8,883 sq. ft. asph. conc. pavement, 3-in. surface on 6-in. class F concrete base.

Estimated cost, \$3560.

SAN FRANCISCO.—Bureau of Engineering, Department of Public Wks, 3rd floor, City Hall, completes specifications to improve Goettingen Street bet. Harkness and Wilde Aves. involving:

- (a) 20 lin. ft. V. C. P. side sewer;
- (b) 720 sq. ft. class F conc. pave.

Estimated cost \$250.

OAKLAND, Cal.—Heafey-Moore Co. 344 High St., Oakland, at \$34,972 awarded contract by city council to improve E 10th St. bet. High St. and 50th Ave., Russet St. bet. 50th and 54th Aves., etc. Project involves:

- (1) 156,749 sq. ft. grading 5.02;
- (2) 341 lin. ft. conc. curb with steel curb guard, \$80.
- (3) 2597 lin. ft. concrete curb with- out steel curb guard, \$40.
- (4) 15,390 sq. ft. conc. pave, \$135.
- (5) 93 lin. ft. 8-in. by 20-in. corr. iron and conc. culvert, \$4.
- (6) 14 lin. ft. 10-in. vit pipe conduit, \$150.
- (7) 34 lin. ft. 15-in. do, \$2.
- (8) 2 handholes, \$15.
- (9) 1 storm water inlet (21-in. opening), \$25.
- (10) 1 manhole top, \$60.
- (11) 1 manhole top, \$35.

1911 Act. City will pay 29% of cost from Treasury. Complete list of bids follows:

Heafey-Moore Co.....	\$34,972
N. M. Ball.....	36,642
A. J. Raichle.....	35,232
Central California Roads Co.....	38,957
M. J. Bevanda.....	41,319

Complete list of unit bids received on this project were published in our issue of December 26.

PALO ALTO, Santa Clara Co., Cal.—Until January 10, 7:30 P. M., bids will be received by E. L. Beach, City Clerk, (933) to improve High St., between Lytton Ave. and Addison St., involving vit. san. sewers, cem. concrete driveways, curbs and walks, catchbasins, conc. storm sewer pipe, electrolyser system, resurf. roadway with asphalt concrete.

Certified check of 10% required with bid. Plans and specifications obtainable from above. J. F. Byrbee, city engineer.

SANTA CLARA, Santa Clara Co., Cal.—City Council declares intention (21-D) to improve Santa Clara, Market, Poplar, Sherwood, Isabella and

Main Sts. and The Alameda involving grading, asphaltic concrete pavement on layer of quarry waste, Portland cement concrete curbs, drop curbs, gutters, sidewalks and driveways, vitrified clay pipe main sanitary sewers, vit. clay pipe Wye branches, vit. clay pipe sewer laterals, brick manholes, cast iron frames and covers. A. J. Cronin, city clerk. Geo. Sullivan, city engineer. Hearing January 5. Act 1911.

December 30, 1930
SANTA CLARA, Santa Clara Co., Cal.—City council declares intention (23-D) to improve Bellomy street and Campbell Ave., involving grading, asphaltic concrete pavement laid on layer of quarry waste, Portland cement concrete sidewalks, curbs and gutters. Act 1911. Imp. Act 1915. Hearing January 5. A. J. Cronin, city clerk. George Sullivan, city engineer.

LOS ANGELES, Cal.—Geo. H. Oswald, 366 E 58th St., submitted low bid to board of public works Dec. 24 at \$32,423.44 for improving streets in 120th St. and Broadway Improvement District (center line length 13,059 ft.) involving:

- (1) grading (24,578 cu. yds. cut, 6630 cu. yds. fill), special flooding (16,200 sq. ft.);
 - (2) 3994 sq. ft. 8-in. conc. paving;
 - (3) 524,037 sq. ft. 7-in. conc. paving;
 - (4) 1233 sq. ft. 6-in. do;
 - (5) 2087 sq. ft. 4-in. do;
 - (6) 6994 sq. ft. 6-in. asph. concrete paving;
 - (7) 14,075 sq. ft. 4-in. asph. concrete wearing surface;
 - (8) 68 sq. ft. 1½-in. do;
 - (9) 156 sq. ft. class 2 resurf.;
 - (10) 456 ft. sectional curb armor;
 - (11) 11,255 sq. ft. unplas. heavy curb;
 - (12) 757 ft. reinf. integral curb, type A
 - (13) 430 ft. do, type B;
 - (14) 200 ft. integral curb;
 - (15) 18,166 sq. ft. 1-course walk;
 - (16) 5179 sq. ft. 2-course walk;
 - (17) storm drain;
 - (18) sanitary sewer;
 - (19) 5093 ft. house sewers;
 - (20) 2250-ft. concrete reinf.;
 - (21) water system;
 - (22) 102 water services;
 - (23) 21 water service stubs;
 - (24) ornamented light system.
- Removals: 8-115 ft. fence, 5581 sq. ft. paving, 10,400 sq. ft. walk, 9256 ft. curb, 33 trees, 40 ft. 18-in. culvert and 2 concrete end walls; reset 14 manholes.

The unit prices were: (1) \$30,000; (2) 27.4c, (3) 23.75c, (4) 25c, (5) 17c, (6) 19.75c, (7) 13c, (8) 11c, (9) 32c, (10) \$1.00, (11) 60c, (12) 65c, (13) 60c, (14) 60c, (15) 14.5c, (16) 15.5c, (17) \$200, (18) \$200, (19) \$1.00, (20) \$5c, (21) \$8000, (22) \$22, (23) \$21, (24) \$6,500; total \$217,432.24.

SAN FRANCISCO.—Until January 7, 2:30 P. M., bids will be received by Board of Public Works to improve Campbell Avenue, between Alpha and Rutland streets, involving armored concrete curbs; two course concrete sidewalks; vit. clay pipe side sewers; asphaltic concrete pavement. Certified check of 10% required, payable to clerk of the Supervisors. Further information obtainable from above.

SAN FRANCISCO.—Until January 7, 2:30 P. M., bids will be received by Board of Public Works to improve Duncan St., between Douglass St. and Hoffman Ave., involving armored concrete curbs; vit. clay pipe side sewers; asphaltic concrete wearing surface and 6-in. Class F concrete base. Certified check of 10% required with bid payable to Clerk of the Supervisors. Further information obtainable from above.

LOS ANGELES, Cal.—Until 10 A. M., Jan. 7, new bids will be received by the Board of Public Works for improving Rhodes Ave., from Oxnard St. to Burbank Blvd., involving:

- (1) grading (4116 cu. yds. cut, 119 cu. yds. fill);
- (2) 54,478 sq. ft. concr. paving, 6-in. thick, dummy and expansion joints and thickened edges;
- (3) 46,657 sq. ft. waterbound decomposed granite roadway, 4-in. thick;
- (4) fire hydrants and appurtenances, complete.

Bids received December 17 were rejected December 24.

OAKLAND, Cal.—Bids were opened by city council to improve E Tenth St. bet. High St. and 50th Ave., Russian St. bet. 90th and 54th Aves., etc. Project involves:

- (1) 156,749 sq. ft. grading;
- (2) 341 lin. ft. conc. curb with steel curb guard;
- (3) 2587 lin. ft. concrete curb without steel curb guard;
- (4) 154,790 sq. ft. conc. pavement;
- (5) 93 lin. ft. 8-in. by 20-in. corr. iron and concrete culvert;
- (6) 14 lin. ft. 12-in. vit. pipe conduit;
- (7) 34 lin. ft. 15-in. vit. pipe conduit;
- (8) 2 handholes;
- (9) 1 storm water inlet (21-in. opening);
- (11) 1 manhole top;
- (12) 1 manhole top.

1911 Act. City will pay 25% of cost from Treasury.

Following is a complete list of unit bids received:

(A)	(B)	(C)	(D)	(E)
(1) \$.035	\$.05	\$.04	\$.025	\$.02
(2) ..... .60	.30	.55	.60	.80
(3) ..... .40	.50	.30	.35	.40
(4) ..... .20	.20	.20	.20	.193
(5) 3.00	5.00	4.50	4.00	4.00
(6) 1.30	2.00	1.60	1.50	1.50
(7) 2.00	2.50	2.15	2.00	2.00
(8) 15.00	75.00	13.00	20.00	15.00
(9) 40.00	50.00	55.00	30.00	25.00
(10) 50.00	60.00	50.00	35.00	40.00
(11) 50.00	100.00	65.00	60.00	60.00
(12) 10.00	25.00	16.00	20.00	35.00

SALINAS, Monterey Co., Cal.—W. A. Dontanville, Salinas, awarded contract by city council to improve Pajaro St., bet. Sausal and Lake Sts., involving grading, 3.65 sq. ft.; conc. pave, \$19 sq. ft.; cem. conc. sidewalks, \$14 sq. ft.; cem. conc. curbs, \$30 lin. ft.

SANTA BARBARA, Cal.—City council declares intention (1134) to improve Bath Street, bet. Quinte St. and Alamar Ave. involving grading, asphaltic concrete pavement, combined cement concrete curb and gutter, cement concrete cross gutter, cement concrete driveways, cement concrete sidewalk, removal of cement landing walk, etc. under 1911 Act. Hearing January 15.

IMPERIAL COUNTY, Cal.—Until January 21, 2 P. M., bids will be received by State Highway Commission to grade and pave with asphalt concrete, 6.3 miles between Trifolium Canal and Kane Springs.

See call for bids under official proposal section in this issue.

SOLANO COUNTY, Cal.—Approval by the state highway commission of plans to reroute the Sacramento-Oakland road through American canyon, Solano county, was announced by the department of public works at Sacramento Dec. 19. The project, to cost approximately \$1,500,000, would reduce the distance between the two cities by five miles. It must have the

approval of the state legislature. The canyon route calls for construction of 14 miles of new roadway terminating with the present highway at points about one mile west of Cordelia and east of Vallejo. The abandoned portion of the existing highway would be turned over to Solano county for inclusion in the latter's road system.

SAN FRANCISCO—Pay Imp. Co., 1'heban Bldg., at \$1872 awarded contract by State Harbor Commission, Ferry Bldg., for laying asphalt wearing surface on basalt block pavement in 16th St., involving:

(1) 270 tons Topoka wearing surface; (2) 100 tons asphaltic binder. Following is a complete list of bids: Pay Imp. Co., (1) \$5.20; (2) \$4.68; \$1,872. Estata & Smith, (1) \$5.65; (2) \$1.80; \$2,005. Union Paving Co., (1) \$6; (2) \$5; \$2,120. L. J. Cohn, (1) \$7.00; (2) \$6.50; \$2,540.

MARCH FIELD, Riverside Co., Cal.—Until January 14, 11 A. M. bids will be received by Constructing Quartermaster, March Field, to construct paved aprons in front of hangars at March Field. Plans obtainable from above. The work will consist principally of concrete paving, the appropriation being \$104,000.

See call for bids under official proposal section in this issue.

TAHOE NATIONAL FOREST, Sierra Nevada, Cal.—Until January 15, 2 P. M., bids will be received by C. H. Sweetser, district engineer, 461 Market St., San Francisco, for grading and surfacing about 4.14 miles in length with crushed rock, involving approximately 28 acres clearing; 72 cu. yds. concrete; 282 cu. yds. masonry; 280 cu. yds. rip-rap; 148,000 cu. yds. excavation; 6700 cu. yds. crushed rock surfacing; 3120 lbs. reinf. steel; 1492 lin. ft. C. M. pipe; 273,200 sq. ft. overhaul. Plans and specifications obtainable from above on deposit of \$10, returnable.

KING CITY, Monterey Co., Cal.—Until January 7, 8 P. M., bids will be received by City Council to improve portions of Mildred Avenue involving grading; hydraulic cement concrete curbs; 5-inch hydraulic cement concrete pavement. K. Z. Mansfield, city clerk, Howard Cozzens, Salinas, engineer. Further information obtainable from above.

SANTA CRUZ, Santa Cruz Co., Cal.—Petition has been placed before the Board of Supervisors to improve Skyland Section, which embraces Skyland, Laurel, Hester and Summit District. The roads now are regarded as unsafe.

BENICIA, Solano Co., Cal.—Construction of a new secondary highway to give Benicia direct and convenient access to the proposed new trunk highway through American-Carquinez bridge short cut is the plan of State Highway Engineer, C. H. Purcell.

SAN FRANCISCO—Until January 7, 2:30 P. M., bids will be received by Board of Public Works to improve Bradford St., between Cortland and Powhattan Avenues, involving side sewers; 6-in. concrete Class E pavement. Certified check of 10% required payable to Clerk of the Supervisors. Further information obtainable from above.

LOS ANGELES, Cal.—J. C. Hickey, 320 S. Palm Ave., Alhambra, submitted the low bid to the board of public works Dec. 24 at \$232,512.23 for

constructing sewers in 112th St. and Willowbrook Ave. Sewer Dist., involving:

- (1) sanitary sewer;
- (2) 697 ft. house sewers;
- (3) 60,650 sq. ft. class AA resurf.;
- (4) 10,841 sq. ft. class AA resurf.;
- (5) 15,815 sq. ft. class C resurf.;
- (6) 22,692 sq. ft. class I resurf.;
- (7) 10 sq. ft. conc. gutter resurf. The unit prices are: (1) \$215,000; (2) \$1.55; (3) 2c; (4) 20c; (5) 35c; (6) 30c; (7) 50c; total \$232,512.23.

IMPERIAL COUNTY—As previously reported bids will be received by State Highway Commission to grade and pave with asphalt concrete 6.3 miles between Trifolium Canal and Kane Springs; approximate quantities are:

- (1) 33,000 cu. yds. rdwy. excav. without class;
- (2) 43,000 sta. yds. overhaul;
- (3) 1,300 cu. yds. struc. excav.;
- (4) 14,500 sq. yds. subgrade for pavement;
- (5) 54,400 sq. yds. asph. paint binder;
- (6) 28,800 tons asphalt concrete;
- (7) 1,292 lin. ft. 24-in. corr. metal pipe;
- (8) 132 lin. ft. 36-in. corr. metal pipe;
- (9) 900 lin. ft. furnishing treated piles;
- (10) 36 each, driving piles;
- (11) 16 M. ft. b. m. redwood timber, dense select all-heart structural grade;
- (12) 10 M. ft. b. m. redwood timber, select all-heart structural grade;
- (13) 72 cu. yds. removing and disposing of Portland cement concrete in existing pavement and structures;
- (14) 322 stations finishing roadway;
- (15) 120 each, monuments, complete in place.

The state will furnish corrugated metal pipe.

CAREY ELASTIC RAIL FILLER PATENT LEGAL

In a decision recently handed down by Judge Cooper in the United States District Court in the Northern District of New York, patent No. 1,171,441, under which the Philip Carey Company Elastite rail filler is manufactured, was held to be valid.

The Philip Carey Manufacturing Co. brought suit against Henry Dumary, Albany contractor, and the Albany Milling Corporation, a dealer. The infringing mill filler was manufactured after the suit was brought by Serviced Products Corp., of which Mr. Albert C. Fischer is president.

Judge Cooper's decision stated that rail filler as manufactured under the patent in question "is a real success and a real benefit to the cities and street railway companies which have the problem ever before them of repairing, paving and repaving paved streets containing street railway tracks."

A decree was awarded in favor of the Philip Carey Co. for injunction and costs with accounting of profits sustaining the patent under which that Company manufactures and sells Carey Elastite Rail Filler.

After many years in Richmond, W. H. Verbisic has moved his roofing business to 2445 San Pablo Avenue, Berkeley. Verbisic applies all types of asphalt, shingle and roll roofs, felt, asphalt and gravel and now handles exclusively the paint and shingle products of the Paraffine Companies, Inc.

Contracts Awarded Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
1633	Liebman	Owner	20000
1634	Morales	Erickson	3800
1635	Peterson	Owner	3500
1636	S F Assn	Lindgren	5000
1637	Spector	Young	2000
1638	Ward	Standard	4500
1639	Mills Estate	Owner	6000
1640	Fred	Owner	1000
1641	St Mary's	Johnson	5000
1642	Warner	McLeran	5000
1643	Tilly	Owner	2000
1644	Vukicevich	Little	5500
1645	Pacific	McDonald	6000
1646	Doelger	Owner	8000
1647	Blaustein	Fisher	7500
1648	Sergo	Owner	3700
1649	Ponti	Isaac	3000

APARTMENTS

(1633) W FILLMORE ST. 100 North Beach; three-story and basement frame (6) apartments.
 Owner—B. Liebman, 1555 Francisco Street.
 Architect—R. R. Irvine, Call Bldg. \$20,000

DWELLING

(1634) E CAYUGA 25 S Lamartine; one-story and basement frame and stucco dwelling.
 Owner—Mr. and Mrs. S. Morales, 52 Santa Rosa Ave.
 Architect—Not Given.
 Contractor—H. Erickson, 972 Chensry \$3800

DWELLING

(1635) NW CAYUGA 25 NE Danton; one-story and basement frame dwelling.
 Owner—A. R. Peterson, 1435 Church Street.
 Plans by B. K. Dobkowitz. \$3500

TOWERS

(1638) NE 16th & BRYANT Streets; erect six steel towers.
 Owner—San Francisco Baseball Assn., 14th and Valencia Sts.
 Engineer—H. J. Brunner, Sharon Bldg.
 Contractor—Lindgren & Swinerton, Inc., 625 Standard Oil Bldg. \$5000

ALTERATIONS

(1637) SE LAKE and 28th Ave.; alterations and additions to residence.
 Owner—D. S. Spector.
 Architect—Bertz, Winter & Maury, 210 Post St.
 Contractor—Young & Horstmeyer, 461 Market St. \$2000

DWELLING

(1638) E VERNON 154 S Randolph; one-story and basement frame dwelling.
 Owner—T. F. Ward, % contractor.
 Plans by Builder.
 Contractor—Standard Bldg. Co., 218 Castaneda. \$4500

ALTERATIONS

(1639) BUSH AND MONTGOMERY Sts. Alter offices and basement garage.
 Owner—Mills Estate Inc., Mills Bldg., San Francisco.
 Engineer—A. Torigino and E. L. Cope, Mills Bldg., San Francisco. \$5000

ALTERATIONS

(1640) 52 MARKS ST.; alterations to front of dwelling.
 Owner—J. Fred, 52 Marks St.
 Architect—Not Given. \$1000

DWELLING

(1641) S PENTON 254 W Geneburn; one-story and basement frame dwelling.
 Owner—St. Mary's Park, 3901 Mission. Plans by D. E. Jaekle, Call Bldg.
 Contractor—A. R. Johnson, 3901 Mission St. \$5000

ALTERATIONS

(1642) 1125 MARKET ST.; alterations to theatre.
 Owner—Warner Eros, Hollywood Theatre Bldg., Los Angeles.
 Architect—Not Given.
 Contractor—R. McLeran & Co., 718 Hearst Bldg. \$5000

ALTERATIONS

(1643) 746 FOLSOM ST.; alterations for offices.
 Owner—Tilly Mfg. Co., Inc., 746 Folsom Street.
 Architect—Not Given. \$2000

FLATS

(1644) E 25th AVE. 120 N Taraval; two-story and basement frame (2) flats.
 Owner—P. Vukicevich, 1442 Taraval Street.
 Engineer—J. G. Little and Co., 251 Kearny St. \$5,500

ALTERATIONS

(1645) N BUSH ST. bet. Kearny and Grant Ave.; alterations to office.
 Owner—Pacific Telephone and Telegraph Co., 140 New Montgomery.
 Plans by Eng. Dept. of Owner.
 Contractor—McDonald & Kahn, Financial Center Bldg. \$6000

DWELLING

(1646) S KIRKHAM 90 W 31st Ave.; two 1-story and basement frame dwellings.
 Owner and Builder—H. Doelger, 300 Judah St.
 Plans by Owner. \$8000

FLATS

(1647) E 21st AVE. 150 N Balboa St.; two-story and basement frame (2) flats.
 Owner and Builder—S. Blaustein, 233 21st Avenue.
 Plans by P. C. Fisher, 1122 Noe St. \$7500

DWELLING

(1648) S ULLOA 107 E 18th Ave.; 1-story and basement frame dwelling.

Owner and Builder—A. Sergio, 2233 20th Avenue.
 Architect—Not Given. \$3700

DWELLING

(1649) E 21st AVENUE 125 S Moraga; 1-story and basement frame dwelling.
 Owner—J. Fonti, 93 Prentice St.
 Plans by Owner.
 Contractor—H. H. Isaac, 151 Farragut Avenue. \$3000

BUILDING CONTRACTS

San Francisco County

No.	Owner	Contractor	Amt.
257	Spector	Young	750
258	Golden State	Salih	10790

ALTERATIONS

(251) SE TWENTY-EIGHTH AVE. and Lake St. All work for alterations to residence.
 Owner—David S. Spector, Rialto Bldg., San Francisco.
 Architect—Bertz, Winter & Maury, 210 Post St., San Francisco.
 Contractor—Young & Hostmeyer, 461 Market St., San Francisco.
 Filed Dec. 23, '30. Dated Dec. 23, '30.
 On 5th of each month..... 75%
 Usual 35 days..... 25%
TOTAL COST, \$—
 Bond, \$4041. Surety, American Bonding Co of Baltimore. Limit, 50 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS

(258) NO. 644 BROADWAY. All work for remodeling and altering theatre.
 Owner—Golden State Theatre & Realty Co., 25 Taylor St., San Francisco (on contract) or North Beach Theatres, Inc (on bond).
 Architect—S. Chas. Lee, 2404 W-7th St., Los Angeles.
 Contractor—Salih Bros., 25 Taylor St., San Francisco.
 Filed Dec. 27, '30. Dated Dec. 2, '30.
TOTAL COST, \$10,790
 Bond, \$10,000. Surety, American Bonding Co. Limit, forfeit, plans and specifications, none.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
Dec 19, 1930—E STEINER 79-84 N California St, 2120 Steiner St. A L and Margaret M	December 19, 1930
Ericksen.....	December 17, 1930
Dec 19, 1930—S PALOU AVE 300 m or l E Newhall E 25 x S 100 m or l. Richard Godfrey to L H Stevenson.....	December 19, 1930
Dec 17, 1930—N MCALLISTER and E Laguna St N 100 x E 30. Skelly Estate Co to J J O'Connor.....	December 15, 1930
Dec 17, 1930—S ULLOA ST 32-6 W 14th Ave W 25x100. G O Stalin to whom it may concern.....	December 16, 1930
Dec 16, 1930—LOT 15 ELK 75 Railroad Ave Hd Assn. Wm F Bernell to whom it may concern.....	December 15, 1930
Dec 16, 1930—E 25th AVE 176 South Taraval S 25 x E 120. Meyer Bros to whom it may concern.....	December 10, 1930

CAPITAL CITY TILE COMPANY

J. C. PALEN
 Manager

914 Seventh Street

Sacramento - - - California

Dec 16, 1930—NE OAKDALE AVE
150 NW Phelps NW 25 x NE 19
blk 592, O'Neil & Haley Tract.
Robert and Agnes Hanton to Ernest
Lombardi..... December 11, 1930

Dec 16, 1930—730 IRVING ST, Mar-
tin Stelling Jr to J. P. Dennis.....
December 11, 1930

Dec 20, 1930—W STOCKTON 27 N
Jackson 37-6 x 68-9. George W
Mensor to De Luca & Son.....
December 11, 1930

Dec 20, 1930—MAGNOLIA AVE 55
E Webster 27-6x120. Ezio Petri
G Perroni & Sons..... Dec 20, 1930

Dec 20, 1930—BLOCK bounded by
18th, 19th, Folsom and Showwell
Streets Pacific City and Electric
Arto Painting Co, D N & E
Walter & Co, H Bosch, J W Ben-
der Roofing & Paving Co, Otis El-
evator Co, Gilley-Schmid Co, J
Mick and W A Pfeffer, S F
Bewser Co, F W Minkel, Jr and
W W Lucas, Wess Mfg Co, Mon-
son Bros, H H Larson Co, J O'-
Shea, Inc, United Commercial Co,
OH Mann & Co, Calif Steel Prod-
Co, Cyclops Iron Works, Fred W
Snook & Co, Ace Sheet Metal
Works..... December 10, 1930

Dec 19, 1930—LOT 25 BLK 2957A
map Sub No 3, Miraloma Park NW
33rd Ave N N Victoria N 25 x
W 120. Meyer Bros to whom it
may concern..... December 17, 1930

Dec 19, 1930—N McALLISTER 100
E Octavia E 50 x N 137-6. L
Hoffman to Spivack.....
December 19, 1930

Dec 19, 1930—LOT 16 BLK 22, map
Crocker Amazon Tract. John Dall
to whom it may concern.....
December 18, 1930

Dec 22, 1930—S VICENTE ST 57-6
and 82-6 W 16th Ave, 25x100. Carl
and Fred Gellert to whom it may
concern (two contracts).....
December 22, 1930

Dec 22, 1930—N FRANCE AVE 125
E Athens 25x100. Gus G Johnson
to whom it may concern.....
December 25, 1930

Dec 22, 1930—N NORTH POINT ST
83 E Broderick St N 52-6, 2370
North Point St. Robinson and
Johnston to whom it may concern
..... December 22, 1930

Dec 22, 1930—LOTS 1 and 2 BLK
232, map Mt Davidson. De Mann &
W Morris to whom it may concern
..... December 18, 1930

Dec 22, 1930—NE WESTGATE DR
and Darien Way 119 or Westgate
Drive x 70 S and 90 W to Darien
Way. S R Anderson to whom
it may concern..... December 20, 1930

Dec 20, 1930—E THIRD AVE 200 N
Clement St 25x120. A and R H
Branch to whom it may concern
..... December 20, 1930

Dec 22, 1930—SAN JOSE and Cir-
cular Aves. Southern Pacific Co
to A G Ralsch.....
December 13, 1930

Dec 26, 1930—SW LOT 241 and E
Cuga Ave NE 25 87-6 and SW
25 m or 1 NW 83.17 Ptn Lot 241
Spring Valley Hd. Lorenzo Besio
to whom it may concern.....
Dec. 26, 1930

Dec 26, 1930—SIXTEENTH AND
Illinois (4th St. plant of Asso-
ciated Oil Co). Associated Oil Co
to Jack Walton..... Dec. 17, 1930

Dec 26, 1930—N MORAGA 32-6 and
57-6 E 21st Ave E 25xN 100.
Castle Bldg Co to Henry Horn.....
Dec. 23, 1930

Dec 26, 1930—N MORAGA 82-6 E
21st Ave E 25xN 100. Castle Bldg
Co to Henry Horn..... Dec. 23, 1930

Dec 24, 1930—LOT 12 BLK 30 map
Crocker Estate Tract Sub No 1.
M Person to whom it may concern
..... December 24, 1930

Dec 23, 1930—W FUNSTON AVE
192 S Santiago Ave. Jos D Ken-
nedy to H Erickson.....
December 23, 1930

Dec 23, 1930—S PACIFIC 127-6 W

Sansone W 68-9 x S 137-6. Tea
Gardens Products Co to The Aus-
tin Co of Calif..... Dec 17, 1930

Dec 23, 1930—SW TARAVAL and
20th Ave W 60 x S 100 10L 1177.
Floyd H Steele to whom it may
concern..... December 23, 1930

Dec 23, 1930—N 20th 129-10 West
Guerrero 25x114. James and Cath-
erine Monaghan to whom it may
concern..... December 23, 1930

Dec 23, 1930—S HANCOCK 150 E
Sanchez, Fredricka Kolsberg to
Tracy Kolsberg..... December 23, 1930

Dec 23, 1930—E FRANKLIN 137-6
S Chestnut S 25 x E 114-9 W 100.
Giuseppe and Angela Llanua
to Tony D'Amico..... Dec 17, 1930

Dec 22, 1930—NW HOWTH 25 NE
Mt Vernon NE 25 x NW 99. A
Dockwell to whom it may concern
..... December 23, 1930

Dec 22, 1930—LOT 33 BLK 6065
Sub No 1 Geneva Terraces H
and H Stoneson to whom it may
concern..... December 15, 1930

Dec 22, 1930—S LOMARD 420 W
Fillmore S 120 x W 47-6. J and A
Poney to whom it may concern.....
December 22, 1930

Dec 22, 1930—860 HOWARD Street.
Associated Oil Co to Villadsen
Bros, Inc..... December 13, 1930

Dec 22, 1930—VICINITY BERNAL
and Diamond Sts. Southern Pa-
cific Co to whom it may concern.
..... December 13, 1930

Dec 22, 1930—TRUSCON STEEL CO
to Southern Pacific Co to
Granfield, Farrar & Carlin.....

LIENS FILED

San Francisco County

Dec. 15, 1930—S FILBERT 115 E
Taylor E 22-6x8 85 Fred How-
ard vs Emanuel V Maggio.....\$200

Dec 17, 1930—160 on OCEAN AVE
100 from Mission St SW to Ruth
St 136 NE th to S Ocean Avenue.
H De Vries vs E F Murphy and
G Lagomarsini.....\$31.67

Dec 19, 1930—W FIFTH AVE 355 N
Lake 30x120. A Cook vs M A
Birdsall and W Knickerbocker.....
\$327.90

Dec 19, 1930—625 MARKET Street.
Robt Fleenor, \$72; F Morse, \$100-
50; J Wallace, \$72, vs Crocker Es-
tate and J D Tucker.....\$244.50

Dec 19, 1930—W DE HARO 25 x
NW 20th and De Haro S
25 x W 100. Hanson Bros vs John
and Anna Rudomethin..... \$900

Dec 18, 1930—E NINTH AVE N
Noriga N 25 x E 120. S F Glass
Co, \$89.21; O G Windell, \$123;
California Concrete Co, \$185, vs H
S Klingspor.....

Dec 24, 1930—SW GREEN ST and
Leavenworth St W 60 x S 87-6,
easement S Green 60 W Leaven-
worth W 6 x S 87-6. Carjolee Wal-
Paper Co, \$764.44; D Zelinsky &
Sons, \$988.85; Art Tile & Mantel
Co, \$5174.85, vs Consolidated Prop-
erties, Ltd and Bellaire Bldg Ltd

Dec 24, 1930—SW GREEN ST and
Leavenworth St W 60 x S 87-6.
Chris Berg vs Consolidated Prop-
erties, Ltd and Bellaire Bldg Ltd
..... \$5621

Dec 24, 1930—W GREEN ST and
Leavenworth St W 60 x S 87-6.
easement S Green 60 W Leaven-
worth W 6 x S 87-6. L H Nish-
kian, \$3591.50; Walwath Calif,
\$3871.35; U S Metal Products Co,
\$600; V Fassio, \$169.25; Glass
Lighting Fixture & Supply Co,
\$4750, vs H C Baumann, Bellaire
Bldg Ltd, Consolidated Properties,
Ltd.....

Dec 23, 1930—SW GREEN ST and
Leavenworth W 60 x S 87-6, ease-
ment over S Green 60 W Leaven-
worth St W 6 x S 87-6. Royal
Floor Co Ltd vs Bellaire Bldg Ltd
..... \$585.47

Dec 23, 1930—S GREEN ST and W

Leavenworth St S 87-6 x W 60.
A J Ruhlman & Co vs Bellaire
Bldg Ltd and Consolidated Prop-
erties, Ltd\$474.65

Dec 23, 1930—N BERNARD ST 107
W Taylor St W 20 x N 80. G
Blanco vs R A Pucheu and T R
Pucheu \$50

Dec 20, 1930—S OCEAN AVE 160
from Mission St, 160 on S Ocean,
135 on Ruth St. American Bitum-
inul Co vs G Lagomarsini.....\$45.10

Dec 20, 1930—S OCEAN AVE 160
from Mission St, 160 on S Ocean,
135 on Ruth St. G M Goldberg vs
F Murphy & G Lagomarsini.....\$60.32

Dec 20, 1930—S FILBERT ST 63 E
Taylor St E 47-6 x S 72-6. P
Howard vs S and R Ludovici.....\$200

Dec 24, 1930—SW GREEN ST and
Leavenworth St W 60 x S 87-6,
easement mentioned in Art recd
in 1763 OR 418. Otis Elevator Co,
\$6683.25; W P Fuller & Co, \$983.25;
Sudden Lumber Co, \$5,466.89; J T
Conway and H M Seely, \$658.93;
W Wettenhall, \$2736.83; Max W
London, \$670; White & Gloor, \$37.10
Geo Frankel, \$7842.72; Judson Pacific
Co, \$8520; P D Wilson, \$5-
976.85; E M Hundley, \$3092.28;
A Harper, \$4667.50, vs Consolidated
Bldg Ltd, Bellaire Bldg, Ltd, V
Fassio vs Mission Concrete Co,
White Co.....

Dec 26, 1930—NW 22nd and Bartlett
Sts W 125 N 60-54 NE 125-2 S
68-16; W Bartlett St 68-134 N
22nd St N 60-7 SE 250-60; S 60-2
NE 250-5 (A Curtaz owner of 2nd
parcel; other defendants owners
of 1st). R P Davis, \$200; H S
Thompson, Inc, \$138.20; Commer-
cial Carpet Laying Co, \$279.20;
Daly City Lime & Cement Co,
\$669.39, vs J Currie, G Youngman,
Wm H Woodfield, Jr, E L Wood-
field, S and E Weinstein and A
Curtaz.....

Dec 26, 1930—LOT 3 BLK 26, map
St Francis Wood Extension No 2.
Readymix Concrete Co Ltd vs G
C Clark, H and J Wellnitz.....\$62.75

Dec 26, 1930—SW GREEN ST AND
Leavenworth St 87-6 x W 60
E 269. Albatross Steel Equip Co
vs Bellaire Eldg, Ltd, and Vin-
cenzo Fassio vs Mission Concrete
Company.....\$701.91

Dec 26, 1930—SW GREEN AND
Leavenworth W 60x8 67-60 W 6
E 269. Folsom St Iron Works, Inc
vs Bellaire Bldg Ltd and Consoli-
dated Properties Ltd and Mission
Concrete Co..... \$914.74

RELEASE OF LIENS

San Francisco County

Recorded Amount

Dec 19, 1930—E GILBERT 180 N
Brannan N 25 x E 80. Golden
Gate Atlas Materials Co to J M
Pichai.....

Dec 23, 1930—525 MARKET Street.
Robert Fleenor, F Morse and J
Wallace to Crocker Estate and
D Tucker.....\$244.50

Dec 20, 1930—W FIFTH AVE 355 N
Lake 30x120. A Cook to M A
Birdsall and W Knickerbocker.....

Dec 20, 1930—S FILBERT ST 115 E
Taylor E 22-6 x S 85. F Howard
to E V Maggio, also known as S
Cudareico.....

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1529	Capwell	Muller	1000
1540	Cross	Christensen	5000
1541	Oakland	Kulchar	6000
1542	Rogers	Wendt	1400
1543	Tulanian	Yerriek	2700
1544	Warren	Warren	3000
1545	Warren	Owner	6000
1546	Bradway	Wagner	7871.44

1547 Ferguson	Bradhoff	3000
1548 Richfield	Barrett	3600
1549 Steele	Owner	12500
1550 Breu	Sylvester	3000
1551 Dinkelspiel	Mattock	20000
1552 Fox	Nylander	3500
1553 Thompson	Owner	3000
1554 Perry	Owner	1800

ALTERATIONS

(1639) SE COR. HOBART ST and Telegraph Ave., OAKLAND; alterations.

Owner—Capwell Estate, % Robinson & Price.

Architect—Not Given.

Contractor—F. A. Muller, Syndicate Bldg., Oakland. \$1600

ALTERATIONS

(1540) NE COR. 26th and Broadway, OAKLAND; alterations.

Owner—R. H. Cross, Mills Bldg., San Francisco.

Architect—Albert Froberg, Ray Bldg., Oakland.

Contractor—H. J. Christensen, R a y Bldg., Oakland \$5000

ALTERATIONS

(1541) 518 14th STREET, OAKLAND; alterations.

Owner—Oakland Remedial Loan Assn. 514 17th St., Oakland.

Architect—Not Given.

Contractor—S. Kulchar, 731 E 10th St. Oakland. \$5000

DWELLING

(1542) S MANDANA BLVD. 188 W Ashmount Ave., OAKLAND; two-story 9-room dwelling and one-story garage.

Owner—Dr. Hobart Rogers, Summit Medical Bldg., Oakland.

Architect—W. E. Schirmer, 700 21st St., Oakland.

Contractor—G. H. Wendt, 2116 Aliston Way, Berkeley. \$17000

ALTERATIONS

(1543) 3721 GRAND AVENUE, OAKLAND; alterations.

Owner—A. Tulanian, 3721 Grand Ave., Oakland.

Architect—Not Given.

Contractor—A. J. Yerrick, 5263 College Ave., Oakland. \$2700

DWELLING

(1544) 2721 BELLAIRE Place, OAKLAND; one-story 6-room dwelling.

Owner—Minnie H. Warren, 3502 Foothill Blvd., Oakland.

Architect—Not Given.

Contractor—W. H. Warren, 3502 Foothill Blvd., Oakland. \$3000

HOSPITAL

(1545) 5542 TELEGRAPH AVENUE, OAKLAND; 1-story 10-room hospital.

Owner & Builder—J. G. Jacques, 6101 Chabot Road, Oakland.

Architect—Not Given. \$6000

THEATRE

(1546) W BROADWAY, 135 S Hobart St., OAKLAND; one-story concrete theatre.

Owner—Broadway & Twentieth Properties, Inc., Alexander Bldg., San Francisco.

Architect—Miller & Plueger, 540 Market St., San Francisco.

Contractor—Geo. Wagner, 181 S Park St., San Francisco. \$787,144

RESIDENCE

(1547) NO. 4 MOSSWOOD LANE, BERKELEY, One-story 4-room 1-family frame residence.

Owner—Mrs. Ferguson, 1 Orchard Lane, Berkeley.

Architect—W. T. Steelberg, 1 Orchard Lane, Berkeley.

Contractor—C. O. Bradhoff, 911 56th St., Oakland. \$3000

SERVICE STATION

(1548) NO. 1050 OXFORD ST., BERKELEY, Class C service station and garage.

Owner—Richfield Oil Co., Oakland.
Architect—W. H. Ratcliff, Mercantile Trust Co., Berkeley.
Contractor—Barrett & Hlip, 918 Harrison St., S. F. \$3600

BANK

(1549) NE COR. E 14th STREET and Fruitvale Ave., OAKLAND; one-story concrete bank building.
Owner and Builder—Floyd H. Steele, 130 St. Elma Way, San Francisco.
Architect—Not Given. \$12,500

DWELLING

(1550) S GUNN DRIVE, 50 W Moore Drive, OAKLAND; one-story four-room dwelling.

Owner—Anna E. Breu, 1510 Franklin St., Oakland.

Architect—Not Given.

Contractor—H. K. Sylvester, 1510 Franklin St. \$3000

DWELLING

(1551) 1924 FOOTHILL BLVD. OAKLAND; two-story 11-room dwelling.

Owner—Lloyd Dinkelspiel, 2800 Broadway, San Francisco.

Architect—J. H. Mitchell, 369 Pine St., San Francisco.

Contractor—A. F. & C. W. Mattock, 212 Clara St., San Francisco. \$20,000

DWELLING

(1552) No. 929 GLEN DRIVE, SAN LEANDRO. Two-story 6-room stucco dwelling.

Owner—Dr. Fox.

Architect—Not Given.

Contractor—Nylander Bros., 633 Montclair St., San Leandro. \$3500

SERVICE STATION

(1553) SW COR. PARK PLVD. and Hampel St., OAKLAND; one-story brick service station, 1-story brick shop and 1-story brick comfort station.

Owner and Builder—G. E. Thompson, 1201 Norwood Ave., Oakland.

Architect—Not Given. \$3000

DWELLING

(1554) NE TENTH ST. 125 East 9th Ave., OAKLAND; one-story four-room dwelling.

Owner and Builder—W. J. Perry, 1002 9th Ave., Oakland.

Architect—Not Given. \$1800

COMPLETION NOTICES

Alameda County

- Dec 19, 1930—LOT 20 and pin Lot 19 Blk 654, Boulevard Terrace, Oakland, Grand Webster Building Corp to Jacobs & Pattiani. December 18, 1930
- Dec 20, 1930—1635 BLAKE STREET Berkeley, Henry M and Barbara Takahashi to The Globe Corp. December 13, 1930
- Dec 20, 1930—LOT 17 BLK 4, Thousand Oaks Heights, Berkeley, Earle R and Fraye M Converse to whom it may concern. December 17, 1930
- Dec 20, 1930—PTN LOTS 3 and 4 Blk 2, Hayward Acres, Eden Twp. William Pruner to Self. December 19, 1930

- Dec 20, 1930—PTN LOT 15 BLK 16, Rockridge Terrace, Oakland, Samuel L Rogers to Clarence D Rich. December 20, 1930
- Dec 19, 1930—LOT 12 SCHULZ ST., Oakland, Nick Martina to John Passarino. December 1, 1930
- Dec 19, 1930—601 EUCLID Avenue, Berkeley, J M Walker to whom it may concern. December 15, 1930
- Dec 19, 1930—LOT 12 BLK F, map of Maatic Park, Alameda, E L Layton to Ben T Kopf Dec 13, 1930
- Dec 19, 1930—729 CENTRAL AVE., Alameda, J M Kinley to whom it may concern. December 11, 1930
- Dec 19, 1930—LOTS 20 and 21 BLK 2, Brower Tract, Alameda, J M Kinley to whom it may concern. December 10, 1930
- Dec 19, 1930—2514 80th AVE., Oakland, George and Eleanor Duncan, and Folke and Alice Wallin to whom it may concern. December 17, 1930
- Dec 19, 1930—CROSS CAMPUS Rd., University of California, Berkeley, The Regents of the University of California to Oakland Paving Co. December 13, 1930
- Dec 18, 1930—20 1st LOT 16 BLK 12, Thousand Oaks Tract, Berkeley, A L Dennison to A B Riertersten. December 15, 1930
- Dec 17, 1930—PPTY known as the Wiegman Home Ranch, Alvarado, Frederick H Wiegman to Irwin H Reimers. December 10, 1930
- Dec 17, 1930—LOT 168 BLK 182, Best Manor Tract, San Leandro, May Rezendes to John Young. December 13, 1930
- Dec 23, 1930—LOT 1, map of Amenity Court, Oakland, Maria Massone to whom it may concern. December 20, 1930
- Dec 23, 1930—N HARPER ST about 350 ft W of 35th Ave, Oakland, E D Ethwell to Herbert K Henderson. December 22, 1930
- Dec 23, 1930—LOT 5 BLK H, Claremont Pines Tract, Oakland, Elizabeth F Hunt to Herbert K Henderson. December 20, 1930
- Dec 22, 1930—NW PARK BLVD and St James Drive, Piedmont, The Roman Catholic Archbishop of San Francisco to P H Donnelly. December 12, 1930
- Dec 22, 1930—LOTS 1 and 2 BLK G, map of Pleasanton, Murra W Davis to Sullivan & Sullivan. December 17, 1930
- Dec 22, 1930—LOTS 11 and 12 BLK 57, Niles, Niles I O O F Hall Assn to whom it may concern. December 19, 1930
- Dec 22, 1930—LOTS 9 and 10 BLK 14, Athens Park Tract, Oakland, John P Rosa to Guy Taylor. December 15, 1930
- Dec 22, 1930—LOT 15 BLK 3, Lakeshore Highlands, Oakland, Alton R Lapham to whom it may concern. December 19, 1930
- Dec 22, 1930—647 SANTA BARBARA ROAD, Berkeley, Embree F Hoekenbeamer to H K Schvane. December 18, 1930
- Dec 26, 1930—SW DURANT AVE and Fulton St., Berkeley, Delphine Ferrier Doyle, Ferries Ferrier Goss and Elizabeth Ferrier Ross to Fred C Stolte, Dec. 26, 1930; Scott Co. Dec. 26, 1930

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
490 GEARY STREET

Phone FRanklin 9400

San Francisco

Dec 24, 1930—LOT 12 ELK A, Glenwood, Oakland. Mrs Dorothy Glazier to whom it may concern..... December 20, 1930

Dec 26, 1930—323 MONTCLAIR AVE, Oakland. George V Nolan to C M Anderson..... November 25, 1930

Dec 24, 1930—PTN LOTS 2, 3 AND 4 Blk C, Map of Town of Pleasanton. Chris Simonsen to Niels Jensen..... Dec. 17, 1930

Castro Valley School District Dubbin and Hayward, Alameda County. Dept. of Public Works, Division of Highways, State of Calif to C S Schwartz..... Dec 22, 1930

Dec 24, 1930—LOT 6 BLK 2, 2nd, 1930, Oakland. Gottlob Betz to Gaubert Bros..... Dec. 10, 1930

Dec 24, 1930—NO. 635 TWENTY-NINTH ST, Oakland. Dr. S J Silva to Chas Ungaretti..... Dec 22, 1930

Dec 24, 1930—NE SIXTH 50 SE C ST., Hayward. C M Russell to C M Russell..... Dec. 15, 1930

Dec 22, 1930—PTN LOTS 133-134 AND 135, Gansinger Tract, Eden Twp., The Prebytery of San Francisco to Julius Hovarrtiz..... November 15, 1930

Dec 22, 1930—LO 145, Unit No. 2, Avenue Terrace, Oakland. Amille A and Josephine Votto to H Johnson..... December 18, 1930

Dec 22, 1930—FLK 2, Lakeshore Addn, Oakland. Aladdin Heating Co vs J Bertoldi and J Britney..... \$155

Dec 22, 1930—LOTS 1 and 2 BLK O, Fruitvale Tract, Oakland. Rex Flood Co vs F Fisher..... \$212.80

Dec 22, 1930—573 14th ST, San Leandro. J Johnstone vs Tony Melero and C Graffi..... \$346.05

Dec 22, 1930—LOT 22 BLK G, Claremont Pines, Oakland. H W Donovan vs J M Walker..... \$437

Dec 22, 1930—EAST LENOX AVE 250.55 S of Montecito Ave., Oakland. C E Douglas and G R Wolf vs Albert and Emily Kroll..... \$579.35

Dec 22, 1930—NE TAYLOR AVE & Caroline St., Alameda. F Kramm vs Aileen Marie Roberts fmy Aileen Marie Hrubanik and M Hrubanik..... \$335.50

Dec 24, 1930—NE TAYLOR AVE & Caroline St., Alameda. Powell Bros, Inc vs Aileen Marie Roberts; Mary Dickson and M F Hrubanik..... \$778.14

Dec 24, 1930—NE TAYLOR AVE & Caroline St., Alameda. Ever-Ready Plumbing Co vs Aileen Marie Roberts and M F Hrubanik..... \$563.70

Dec 24, 1930—NO. 149 BEACHWOOD Drive, Oakland. Inland Floor Co vs J M Walker..... \$489

Dec 24, 1930—LOT 22 BLK G, Claremont Pines Tract, Alameda. F. Hoffman Co vs J M Walker..... \$565.55

Dec 24, 1930—NE LINE EAST 14th ST 181-21 ft East of 13th Avenue, Oakland. C W Roland, \$142.10; A Castelfrío, \$178.85, vs J R L Jones. Melrose Steel Co.....

Dec 23, 1930—SE APGAR and West Sts, Oakland. Hutchinson Co vs San Brenner, C R Veiss and Melrose Steel Company..... \$42.83

Dec 22, 1930—149 BEACHWOOD Dr., Oakland. Malott & Peterson vs M Walker..... \$655

Dec 23, 1930—2249 TELEGRAPH AVE Berkeley. Chas W Knights vs W E Berling, Alma Vermir, C E Waters, D J Gordon, W C Gilman..... \$2,522

Dec 23, 1930—SE TENTH AVE 120 ft NE of East 22nd St, Oakland. Frank Eytman vs Western Loan & Bldg Co, U Cavallo..... \$233

Dec 23, 1930—702-704 STEVENS AVE, 1132-34 Portland Ave. Albany. West Bros Roofing Co vs Joe Catrini..... \$42.50

Dec 23, 1930—SE GRAND and Webster Sts, Oakland. Melrose Bldg Materials Co vs Grand - Webster Eldg Corp, R M Evans..... \$211.43

Dec 23, 1930—NE 63rd ST and Telegraph Ave, Oakland. Hutchinson Co vs E and S Lanza and Melrose Steel Company..... \$27.50

Dec 23, 1930—NE TAYLOR AVE & Caroline St., Alameda. H E Rice, \$546; Fred Josephson, \$1,225. H C Stoeckel Co, \$307.40; Oakland Sheet Metal Supply Co, \$158.73 vs Aileen Marie Roberts; Mary Dickson and M F Hrubanik.....

Dec 27, 1930—NE TAYLOR AVE & Caroline St., Alameda. Stron, Electrical Co vs Mrs. Mary Dickson; Aileen Marie Roberts fmy Aileen Marie Hrubanik and Laura A Hrubanik..... \$342.70

Dec 27, 1930—LOTS 26 AND 27 Map of Benton Property, Berkeley. Geo. R Moren vs Alpha Chapter of Theta Upsilon Sorority..... \$170.40

Dec 27, 1930—LOTS 107 AND 108, St. James Wood, Piedmont. George J Maurer vs Clarence A and Mildred I Murphy..... \$1596

Dec 25, 1930—PTN LOT 12 BLK 14, Emap of the southern pt of Blake Estate, Berkeley. W P Fuller & Co vs Josephine Tripp, R B Grainger..... \$122.95

Dec 26, 1930—NE TAYLOR AVE & Caroline St., Alameda. T P Hogan Co vs Aileen Marie Roberts, Mary Dickson..... \$759.27

Dec 26, 1930—LOT 15 BLK 4, Berkeley Square, Berkeley. T P Hogan Co, \$899.74; Pacific Hardwood Flooring Co, \$85.15, vs Arthur E and Jessie J Longmate, J Harry Smith.....

RELEASE OF LIENS

Alameda County

Recorded	Amount
Dec 19, 1930—E VALDEZ ST 220 ft N of 24th St, Oakland. Alawell Hardware Co, \$35.24; B Simon Hardware Co, \$267.75, to E Piener, Tillie R Spear.....	
Dec 19, 1930—INTER SW FLEMING AVE and SE line of High St, Oakland. F W Parkhurst to Majel B and Walter S Johnson.....	\$549.19
Dec 18, 1930—PTN LOTS 29 and 30 Blk 2, Thousand Oaks Heights, Berkeley. Al M Fearey to E R Converse.....	\$225
Dec 24, 1930—420 14th ST, Oakland. Oliver W Thornton to J C and Paula Merrick, Berthold and Hannah Altmayer, Greater Oakland Club, Jerry Fonda, E J Greenwood, Beatrice M Greenwood, Martin E and Blanche M Marks, Louis and Ruby Scheeline.....	\$459.90
Dec 22, 1930—2339 OREGON Street, Berkeley. Cliff Gates to Harry C Knight.....	\$206

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
Dec 24, 1930—LOT 15 BLK 8, map Burlingame Grove. Theo T Bennett to Ingrid Sorensen.....	
Dec 24, 1930—PUMP STATION on ppty of M S Costa at or near Engineer Station No 292 on State Highway bet Redwood City and Palo Alto. State of California to Herbert D Baker.....	Dec 22, 1930
Dec 26, 1930—LOT 6 Blk 2, San Mateo. J H Clifford to whom it may concern.....	December 20, 1930
Dec 26, 1930—LOT 24 BLK 7, University Heights, San Mateo Co. Holger I Espbr to whom it may concern.....	December 26, 1930
Dec 20, 1930—LOTS 11 AND 12 BLK 1, Oakwood Tract, San Mateo. R E Stewart to whom it may concern.....	Dec. 19, 1930
Dec 25, 1930—LOTS 27 AND 28 BLK 12, Central Park, San Mateo. Lillian Edelman to A Newman and R E Marshall.....	Dec. 20, 1930
Dec 22, 1930—LOT 4 BLK I, San Bruno. Axy Becs to whom it may concern.....	Dec. 20, 1930
Dec 22, 1930—LOT 4, Hillsborough Oaks. Jules G Mindich to whom it may concern.....	Dec. 22, 1930
Dec 22, 1930—LOT 21 BLK 28, Redwood Highlands. Victor J Chiappellone to whom it may concern.....	Dec. 22, 1930
Dec 22, 1930—LOTS 13 AND 19, Woodside Glens. Ada Mengler to C F Howard.....	Dec. 14, 1930
Dec 22, 1930—S THIRD AVE, San Mateo. Martin Stelling et al to Clinton-Stephenson Constr Co, Ltd.....	Dec. 13, 1930

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
Dec 26, 1930—LOT 38 BLK 14, Emap No. 2, Central Park, Redwood City. F X Schweickert vs John A Manning, John Quimby.....	\$70
Dec 24, 1930—LOT 3 BLK 15, Bayview Heights. Wm Woolley vs Martin Peterson.....	\$77.65
Dec 24, 1930—LOTS 14 and 15 BLK 2, Bayview Heights. Wm Woolley	

LIENS FILED

Alameda County

Recorded	Amount
Dec 19, 1930—N LINE E 14th ST 181-21 ft E of 13th Ave, Oakland. M Winkelnbach vs J R L Jones, Melrose Steel Co, Inc.....	\$435
Dec 19, 1930—LOTS 29 and 30 BLK 13, map No 6 Regents Park, Albany. J A Dale, \$426.40; C C Hunter, \$589.20, vs J G Cantrani.....	
Dec 18, 1930—SE APGAR and WEST Sts, Oakland. Wade Hollingsworth vs Sam Brenner, L Veiss Brenner, Melrose Steel Co, Inc.....	\$90.50
Dec 18, 1930—S 115 FT LOT 1 BLK 10, Pioneer Homestead Assn, Alameda. Melrose Lumber & Supply Co Inc vs Marques Wiepcke, A H Johnson.....	\$120.30
Dec 15, 1930—LOT 15 BLK Berkeley Square, Berkeley. Edw W Brodrick vs A E Longmate aka Arthur E Longmate, Jessie J Longmate, J Harry Smith.....	\$126.55
Dec 15, 1930—LOT 27 BLK 11, Amended map of Central Park, Berkeley. Herman C Orth vs C G Coates aka Clifford G Coates, Myrta C Coates, Robert J Hale.....	\$51
Dec 18, 1930—LOT C BLK 55, Alameda Homestead, Alameda. W F Colburn doing business as Pacific Coast Roofing Co vs A A Arada and Fillmore Arada.....	\$50
Dec 18, 1930—LOT C BLK 55, Alameda Homestead, Alameda. Tilden Lumber & Mill Co vs E E Fillmore Arada and A W Schneck.....	\$337.70
Dec 17, 1930—5452 BOND ST, Oakland. C F Olson vs Chas and Anna Blais, Fautline Fellerin, Mrs L O Clark.....	\$55
Dec 17, 1930—LOT C BLK 55, Alameda Park Homestead, Alameda. Jessie Bray vs Anna and Fillmore Arada, A Schneck.....	\$394.25
Dec 17, 1930—LOT C BLK 55, Alameda Park Homestead, Alameda. A W Schneck vs A and F Arada and A Auslin.....	\$1700
Dec 17, 1930—LOT C BLK 55, Alameda Park Homestead, Alameda. E Wangan, \$123; K Miller, \$500, vs A and F Arada.....	
Dec 22, 1930—NORTH PIGIRER 100-25 W Woodland, San Leandro. American Lead Co vs H F and E O Bruenner, J Franklin.....	\$123.54

vs Martin Peterson, S A Smoot	\$174.15
Dec 24, 1930—PTN LOTS 38 and 40 Map No 1, Sub No 1, Wellesley Park and ptn lot A blk 10. Edge- wood Park, Redwood City. Mar- \$692.75, vs Henry M McQuilken, Martin Nelson, \$78; Albin Warden, Martin Peterson	
Dec 24, 1930—PTN LOTS 38 and 40 Map No 2, Sub No 1, Wellesley Park and ptn lot A blk 10. Edge- wood Park, Redwood City. Wm Woolley vs Martin Peterson \$99.55	
Dec 20, 1930—LOT 26 BLK 27, Mil- brae Highlands, Herman Ahlgren et al vs A M Arnesen et al	\$235
Dec 20, 1930—LOT 2 BLK I, Duncan Park, A Haseltine vs Laverne H Booker et al	\$458
Dec 20, 1930—LOT 1 BLK I, Duncan Park, A Haseltine vs Laverne H Booker et al	\$560
Dec 29, 1930—LOT 2 BLK 10, Uni- versity Heights, Barney Hallson vs Albert Bell et al	\$40
Dec 22, 1930—LOTS 38 AND 40 and Part Lot A Blk 10, Wellesley Park C A Bloomquist vs Martin Peter- son et al	\$265

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded	Amount
Dec. 20, 1930 -- LOCATION NOT Given. Geo Trallmon to J L De- bedettul	

COMPLETION NOTICES

MARIN COUNTY

Recorded	Accepted
Dec 22, 1930—FAIRFAX. Lizzie Al- pern to M Lingel. December 22, 1930	
Dec 22, 1930—NEAR TILLY, San Francisco Yacht Club of Belvedere to Clinton - Stephenson Const Co, Ltd. December 12, 1930	

LIENS FILED

MARIN COUNTY

Recorded	Amount
Dec 19, 1930—SAUSALITO. Marin Lumber & Supply Co vs P F Frund	\$517.15
Dec 22, 1930—SAN ANSELMO. Dal- las T Perrenot vs Mr and Mrs Fred Fisher and Chas Service.	\$117
Dec 24, 1930—SAN ANSELMO. Geo Wolfe vs C A Service, et al.	\$49.50
Dec 24, 1930—SAN ANSELMO. Geo Wolfe vs C A Service.	\$30
Dec 24, 1930—SAN ANSELMO. Geo Wolfe vs C A Service and Harold E Squire	\$135

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded	Accepted
Dec 23, 1930—LOT 7 BLK 17, Rich- mond Traffic Center. David J and Mary K Esola to Norman E An- erson. December 17, 1930	
Dec 22, 1930—LOT 4 BLK 323, City of Martinez. Raymon Claeyts to W Skelrove. December 23, 1930	
Dec 24, 1930—PTN LOT 18, Gram- mar School Addn to Concord. F T Troutman to W A Riggs. December 24, 1930	
Dec 19, 1930—PTN LOT 1 BLK 5, Shell Heights, Martinez. L A Goree to J F Croll. Dec. 19, 1930	
Dec 19, 1930—SECTION 12 2 R 1 W and in Rancho Los Medanos, (con- struction of crushed stone road on property of Calif. Water Service Co.) California Water Service Co. to Hutchinson Co. Dec. 10, 1930	
Dec 20, 1930—PTN LOTS 2 AND 4 Blk 39, O. S. Martinez. Martinez	

Masonic Lodge No. 41, F. & A. M. to Russell Guerne deLappe and Vladimir Oglou. Dec. 20, 1930	
Dec. 20, 1930—LOT 29 BLK 12, Pacific Heights. Louise McWorthy J L Day to whom it may concern Dec. 17, 1930	
Dec. 22, 1930—SUISUN BAY Bridge at or near Martinez. South- ern Pacific Co to Pacific Bridge Painting Co (work on superstruc- ture)	Dec. 17, 1930
Dec 22, 1930—W 1/2 LOT 1 BLK 33, Bonlevard Gardens No. 1. Beasie C Rose to C E Grey and D A Arensen	Dec. 20, 1930

LIENS FILED

CONTRA COSTA COUNTY

Recorded	Amount
Dec. 19, 1930—PTN RANCHO LOS Medanos, described. Hutchinson Co vs H A Hall, also known as Herbert A Hall.	\$220
Dec. 19, 1930—PTN RANCHO LOS Medanos. Hutchinson Co vs J A and Mary Junta and Marie Hall	\$718.36
Dec. 19, 1930—PTN RANCHO LOS Medanos. Hutchinson Co vs Annie D Holmes and C P Foster.	\$356.15

COMPLETION NOTICES

MONTEREY COUNTY

Recorded	Accepted
Dec. 19, 1930—LOT 11, Map showing the Carmelito Tract in Blk 114, City of Monterey. Anthony Dusek to Newman & Halstead. Dec. 18, 1930	
Dec. 19, 1930—LOT 7 BLK B-9 Stone Addition to Salinas City. W F Sechrest to whom it may concern. Dec. 19, 1930	
Dec. 22, 1930—LOT 6 of Parcel 8, Romie Lane Subdivision. V H Sutton to whom it may concern. Dec. 19, 1930	
Dec. 22, 1930—LOT 12 and D 1/2 Lot 13 Blk 5, Map 2, Del Monte Heights. C L Houston to W M Roach. Dec. 19, 1930	
Dec 23, 1930—LOTS 1 to 22 inc BLK 13 map No 1 Hot Spring Tract, Del Monte Heights. James W Rithoud to whom it may concern December 20, 1930	
Dec 23, 1930—LOTS 2 and 4 BLK 39, map of Withers Addn, Monterey. J C Anthony to whom it may con- cern. December 22, 1930	
Dec 24, 1930—LOT A in BLK 3, map Salinas City. Salinas National Corp to H H Larson Co. Dec. 20, 1930	
Dec 26, 1930—NLY LINE WEBSTER St and Ely line Munras Avenue. General Petroleum Corp to John Taufner. December 15, 1930	

LIENS FILED

MONTEREY COUNTY

Recorded	Amount
Dec. 17, 1930—LOT 12 BLK 174, Fifth Addition to Pacific Grove. J E Eckett vs Charles Williams and Wade O Halstead.	\$320
Dec. 17, 1930—LOTS 9, 10 AND 11 Blk 12, Little's Survey of New Monterey. J E Eckett vs Wade O Halstead and Frank Di Giorno.	\$224
Dec. 17, 1930—LOTS 9, 10 AND 11 Blk 12, Little's Survey of New Monterey. George D Patrick, Victor H Patrick and Patrick The Plumber vs Frank Di Giorno and Wade O Halstead.	\$249.95
Dec. 17, 1930—LOT 12 BLK 174, Fifth Addition to Pacific Grove. George D and Victor H Patrick (Patrick the Plumber) vs Charles Williams & Wade O Halstead.	\$307.43
Dec. 19, 1930—LOTS 9 AND 11 BLK 12, Little's Survey of New Mon-	

tery, A Marotta, \$100; J W Shaney, \$114.55; Tynan Lumber Co, \$594.57; Roy M Wright, \$48.07 vs Frank Di Giorno and Wade O Halstead.	
Dec. 19, 1930—LOT 12 BLK 174, Map of 5th Addition to Pacific Grove. A Marotta, \$30; P W Shaney, \$400 Roy M Wright, \$74.84 Tynan Lum- ber Co, \$754.94 vs Wade O Hal- stead and Charles Williams.	

COMPLETION NOTICES

SONOMA COUNTY

Recorded	Accepted
Dec. 22, 1930—LOT 7 BLK 23, Mc- Donald's Addition to Santa Rosa. Leo Noonan to Hume Bunljan. Dec. 11, 1930	

LIENS FILED

SONOMA COUNTY

Recorded	Amount
Dec. 22, 1930—LOT 1 BLK C, Car- ringtons Add to Santa Rosa. E U White Lumber Co vs Chris Knutsen and Frank Celeri.	\$113.59
Dec. 22, 1930—LOT 401 and Part Lots 402 and 403 Blk 12, City of Santa Rosa. Sterling Lumber Co vs J F Kinstone; Mary C Bar- nett; Amelia B Burnett; A P Sweeney; C B Eames; L A Eames and L A Heekman	\$151.11

LIENS FILED

SAN JOAQUIN COUNTY

Recorded	Accepted
Dec. 22, 1930—LOTS 16 AND 17 BLK 34, Fair Oaks Trct, Stockton, Star Lumber Co vs Lily S Morrissetti	\$70.13

BUILDING PERMITS

STOCKTON

RESIDENCE & garage, \$4000; No. 436 N-Central Ave., Stockton; owner and contractor, J. M Heltbrand, 2644 E-Main St., Stockton.
REMODEL bathrooms, \$3500; No. 125 E. Weber Ave., Stockton; owner, Stockton Hotel, Fremont; con- tractor, O. H Chain, Bank of America Bldg., Stockton.
RESIDENCE and garage, \$4400; No. 440 N. Regent St., Stockton; own- er, S. C. Giles, 121 Knowles Way, Stockton.
CLUBHOUSE, brick, \$12,700; No. 134 West Park St., Stockton; owner, Knights of Pythias; contractor, T. E. Williamson, 1849 W-Park Ave., Stockton.

BUILDING PERMITS

SACRAMENTO

GENERAL repairs, \$2500; No. 506 I St., Sacramento; owner, Kim- brough Estate; contractor, F. Maloney, 3172 T St., Sacramento.
RESIDENCE, 6-room and garage, \$4560; No. 2723 Land Park Dr., Sacramento; owner, George Law- rence, 4846 10th Ave., Sacramento.
RESIDENCE, 6-room and garage, \$5000; No. 741 48th St., Sacra- mento; owner, O. M. Frohing, 1625 40th St., Sacramento.
RESIDENCE, 5-room, \$3000; No. 2925 P St., Sacramento; owner, Edlin Barber, 1049 54th St., Sacramento.
RESIDENCE, 7-room, \$5000; No. 2685 Land Park Dr., Sacramento; owner, H. M. Dunkel, 420 Santa Ynez Way, Sacramento.

BUILDING CONTRACTS

SACRAMENTO COUNTY

CHURCH SOUTH 3/4 LOT 5 R S 27 28; all work on church.
 Owner—Church of Nazarene, with C. F. Crowder, 1824 28th St., Sacramento.
 Architect—Not Given.
 Filed and Dated
 Payments not given.
 TOTAL COST, \$12,000

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Dec 24, 1930—Accepted
 Dec 24, 1930—LOT 187 BLOCK 18 Colonial Hgts, Sacramento. Donald Aeg to whom it may concern.
 December 20, 1930
 Dec 26, 1930—WEST HALF LOT 6 and E half lot 7 G H 67. Dan A Stanich to whom it may concern.
 December 22, 1930
 Dec 26, 1930—BET ONE MILE South of Arno and Cosumnes river, Sacramento Co. Dept of Public Wks State of California to whom it may concern.
 December 19, 1930

LIENS FILED

SACRAMENTO

Recorded	Amount
Dec 26, 1930—NORTH 100 FT LOT 5 BLK 8 subdiv 8, North Sacramento. Cutter Mill & Lumber Co vs Horace Pierce and Hazel Warren Hill	\$420.78

BUILDING PERMITS

FRESNO

SERVICE station, \$1000; No. 2105 Railroad Ave., Fresno; owner, J. R. Van Fleet, T. W. Patterson Bldg., Fresno; contractor, Boyle-Dayton Co.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Dec. 24, 1930—Accepted
 Dec. 24, 1930—FOWLER SWITCH Canal and Francher Creek. Dept. of Public Works, State of Calif. to Peninsula Paving Co. Dec. 19, 1930

OFFICIAL NOTICES

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on January 21, 1931, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

Imperial County, between Trifolium Canal and Kane Springs (VIII-Imp-26-B), about six and three-tenths (6.3) miles in length, to be graded and paved with asphalt concrete.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of ex-

perience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
 C. H. PURCELL
 State Highway Engineer.
 Dated December 23, 1930.

Suggested measures for the prevention of the four chief types of unemployment are given in a report of the governor's commission on unemployment problems for the State of New York, issued by Frances Perkins, state industrial commissioner and a member of the special commission. The four types are listed as seasonal, cyclical, technological and chronic. A summary of possible measures of preventing seasonal unemployment is given as follows: stimulating consumer and dealer demand during the off-seasons; scheduling production so that employment will be fairly evenly distributed throughout the year despite fluctuations in sales; developing sideline and filler products for slack seasons; and using a flexible working day rather than alternately hiring and firing workers.

According to the report, cyclical depressions are beyond the power of industry to prevent. As a means of affording some relief from unemployment, the commission suggests that public works be planned far enough ahead and flexible enough to be pushed forward in times of depression and dealer demand during the off-seasons; that caused by replacing of hand labor with machinery, can be lessened by the adoption of sound plans to take care of those released, either by absorption in other departments or by providing dismissal wages large enough to tide the worker over until other work can be obtained. When it is necessary to reduce the working force because of changes in the plant, it is suggested that it be done gradually, not by layoffs, but by non-replacement of losses due to death or superannuation. Chronic unemployment could be relieved by the organization of competent state and national agencies, which could centralize application for men and work. Such a plan would free workers from the high fees charged by private agencies and would tend to remove the abuses now prevalent in the private agency system of supplying workers.



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BUILDING *and* ENGINEERING NEWS

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SAN FRANCISCO, CALIF., JANUARY 10, 1931

Published Every Saturday
Thirty-first Year, No. 2



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Building and Engineering News will be sent to subscribers until ordered stopped and all orders to discontinue must be sent in writing to this office.

STANDARD OFFICE LEASE FORM ISSUED

Safeguarding and clarifying all phases of the agreement entered into between the lessor and lessee in renting office space are the aims of the new standard office lease form issued by the National Association of Real Estate Boards. The new form was prepared by the Association's Property Management Division and approved by the Brokers' Division, and has been sent to all members of both Divisions.

Such provisions as have been found by long experience to operate most satisfactorily for the protection of all parties concerned in the transaction of leasing office space—the tenant, the property manager, and the owner of the building—have been included in this standard form, which was prepared after a careful scrutiny of various types of office leases now in use by property managers throughout the country.

Optional rider clauses are provided with the new standard form to cover specific agreements in leasing space in typical office buildings planned for tenants in some special business or profession, as, for instance, a building planned for the use of doctors. The Division points out that is of definite value to the individual tenant that such buildings maintain certain high standards for all tenants.

One optional clause for leases in buildings for the use of doctors and dentists requires the lessee to agree not to advertise his profession in any manner prohibited by the code of ethics of medical and dental professions, and, in case the lessee breaks this agreement, makes him liable to \$500 damages, payable to the lessor.

Further optional clauses to be included in leases made to doctors and dentists cover provisions for the dispensation of alcohol and other drugs and chemicals, name specifically the appliances which the dentist may use for gas and compressed air, and relieve the lessor of responsibility for the operation of X-Ray machines and other medical and dental office equipment.

The following committee, from the Property Management Division, in co-operation with the Brokers' Division of the National Association, prepared the standard office lease form: Arthur P. Hall, Chicago, Chairman; William H. Ballard, Boston; L. V. DuBois, Cincinnati; Clarence Turley, St. Louis; Ed. Torrence, Minneapolis, and John B. Lear, Philadelphia.

Construction of a tunnel under the city of Vancouver, B. C., will be begun soon under a contract awarded to the Northern Construction Co. and J. W. Stewart by the Canadian Pacific Railway. The tunnel will eliminate five grade crossings in a busy part of the downtown area. Its cost is estimated at \$1,750,000.

G. G. BRIDGE BIDS ABOUT MARCH FIRST

Bids on the first unit of the Golden Gate Bridge, a \$35,000,000 project, will be opened about March 1, it is announced by the Golden Gate Bridge and Highway District.

Plans are now being checked to determine if the structure can be built for the amount of money voted for its construction. At the November 4 election the district sanctioned a \$35,000,000 bond issue to finance the bridge.

The bridge will be constructed between Fort Point in the Presidio of San Francisco and Lime Point in Marin County.

The bridge proper will be 6400 feet end to end, with a center span of 4200 feet, two side spans of 110 feet each, a 1582 foot viaduct on the south, a 910 foot viaduct on the north and approaches.

The total length of the main bridge between piers is 8943 feet. The clearances are 410 feet horizontally between piers and 220 feet vertically above mean high water at the center.

The bridge will contain 75,000 tons of structural steel and the foundations and anchorages will require 110,600 cubic yards of concrete. The towers are 740 feet above mean high water with glass-enclosed observation platforms at the tops, reached by elevators.

The two main steel cables will each be 7700 feet long, weighing 43,750,000 pounds when wrapped. Each main cable will contain 27,600 individual strands, eyebars being provided at the anchorages.

The sag at the center of the span is 475 feet.

ORANGE COUNTY EXCHANGE ELECTS

Walter F. Sorensen of Santa Ana was elected president of the Orange County Builders' Exchange at the regular annual meeting of that body in Santa Ana last week. C. M. Gilbert was elected first vice-president and V. J. Anderson, second vice-president. LeRoy M. Strang was elected treasurer and Frederic W. Sanford re-elected secretary-manager.

Directors are H. M. Adams, M. E. Beebe, A. L. Foster, Allison Honer, W. J. Kelly, H. M. Massey, R. C. McMillan, C. E. Rutledge, Wm. J. Tway, Henry Walters and Geo. W. Young.

The officers were installed at a dinner-meeting held in the American Legion Clubhouse at Santa Ana where a special program of entertainment was featured.

Speakers at the dinner included J. Simon Flour, George R. Wells, O. T. Moore, Jules W. Markel, Wm. T. Tway, Allison Honer and R. C. McMillan, all past presidents of the Orange County Builders' Exchange.

VENTURA HARBOR ACT HIT BY COURT

The California Supreme Court on January 2 ruled that the Ventura Harbor District Act, passed by the 1927 Legislature, was invalid, inoperative and void.

The harbor district had petitioned the Supreme Court for an alternative writ of mandate to compel the supervisors of Ventura County to call a special election on a contemplated \$2,000,000 bond issue for improvement of the Ventura harbor.

Contending the act was unconstitutional, the supervisors attacked the validity of the act on the grounds that it conflicted with general laws of California which cover all phases of harbor improvement.

The opinion, written by Justice J. W. Preston, was unanimous.

Justice Preston cited two constitutional provisions, one saying all laws must have uniform application and the other saying no special law was valid where a general law is applicable.

General laws, in force when the Ventura Harbor District Act was passed, cited as follows:

1. The county harbor district act.
2. A harbor district act enabling portions of counties to bond a district, for harbor improvement, the county board of supervisors having power to fix the boundaries.

Under the Ventura Harbor District Act the boundaries were fixed in the act itself, not being subject to change. It also provided that taxes to support the district come from real property.

Justice Preston's opinion said that it was a matter as to whether general acts were applicable, and the court ruled that they were and that, therefore, the "Ventura Harbor District Act of 1927 is invalid, inoperative, null and void."

The Ventura act included most of Ventura County in the harbor district. A point mentioned by Justice Preston was that a harbor district, formed in accordance with the general law applying to portions of counties, would permit public hearings at which time the inclusion or exclusion of certain portions of a county in a harbor district could be decided.

A. E. F. ENGINEERS PLAN TO ORGANIZE

An association for former members of the 10th and 20th Engineers, A. E. F., is being projected.

All former members are requested to write to D. R. Meredith, 295 East 42nd Street, New York City, or to F. S. McNally, 5728 Grand Central Terminal, New York City.

It is planned to hold a meeting of the new association during the Northeastern Retail Lumbermen's Association convention to be held at the Pennsylvania Hotel, New York City, January 27-29.

ABILITY OF SALESMEN IS AD TO BUSINESS RECOVERY

Business recovery depends largely upon the ability of the salesman to point the way, declared Charles F. Abbott, Executive Director of the American Institute of Steel Construction in an address before the National Council of Traveling Salesmen's Association at the Hotel Victoria, New York, Dec. 18.

Mr. Abbott pointed out that there has been an advance in the price of steel which marks the turning point in the present period of depression. His address is published herewith.—Editor.

"This is a very important time to talk with salesmen. You are about to return to your territories throughout the United States, and business recovery will depend to a large extent upon your ability to sell," said Mr. Abbott.

"Thousands of employers are now looking for the man who can sell. Factories and shops are failing because they have not got him. He does more than anyone else to make work for the unemployed, and he makes his firm prosper. He can restore business in all lines. He is the most valuable man in a time of depression and he does most of all to prevent overproduction.

"The successful salesman frowns upon price cutting. He abhors unethical practices. He is the most wanted man in the world today, as he alone can bring about business recovery—the man who knows how to sell.

"Business is all set to stage a comeback. There is plenty of money available if it could be released into purchasing. It has been temporarily held in abeyance because those who have the money do not like to spend it when news is being released from New York of bank failures and constant declines in the stock market. This has a tendency to create pessimism as thick as a London fog, and has prevented people from buying what they really need. We, as salesmen, however, should be able to break through that.

"There are many important messages the salesman can convey at this time that would have a very beneficial influence upon the whole situation. Among the more important is the creation of a nation-wide recognition of the support that should be extended to President Hoover at this time when we are passing through the worst crisis ever experienced in all history. The country is fortunate in having a man of the experience, knowledge and courage of President Hoover. His humanism and his understanding of world-wide affairs will undoubtedly lead us through successfully. Disregarding all political faiths and preferences, this is the time when all of our people throughout the country should rally to the support of our President and insist that his programs be carried through without interruption or interference. This is no time for delays or procrastinations. It is a time for cooperation, and it should and will be forthcoming.

"A man of lesser experience as President at this time might not have been able to meet the perplexing problems as effectively, in which event we would have experienced a more severe depression and one of longer duration.

"Overproduction has seemingly made it necessary for some drastically made experiments. In the case of copper, sugar, coffee, rubber, wool, cotton and other basic commodities efforts

which have seemingly had their inspiration in price fixing seem to be the only practical remedy for the emergency. As important as steel is to the national existence this industry has consistently refrained from restricting output or depriving the public of its products.

"Recently one of the important companies producing steel announced an advance of a dollar a ton on a few of the products of the mill. Any one acquainted with the temper of the market will agree that the time was ripe for such action. Because some of the competing mills also advanced their prices on similar steel products, the incident has been brought within the purview of certain politicians.

"It seems to me that this is no time for our legislators to criticize business because of the inauguration of constructive policies. Steel has definitely marked the turn of the depression. That alone is the meaning of the price advance and incident of hurting steel. Our legislators in Washington should have received the announcement with hurrahs.

"As a matter of fact the profits incurred in the operation of the steel industry are not in keeping with the hazards and risks assumed in this great and important industry. It has been estimated that less than \$5.00 of every \$100.00 of invested capital represents the return.

"Unless better prices are obtained it is evident that the great steel mills cannot maintain the present rate of employment and wage scales, neither of which have been interfered with during this depressing period when the steel industry has been operating at approximately 45 per cent of capacity. The employment and wage scales depend upon reasonable profitable returns.

"Then again, one of the senators took the opportunity of calling to the attention of the people throughout the country to the fact that the cost of steel in our bridges and buildings might now be increased, and the consumer might be obliged to assume the additional burden. This senator possibly did not know that through the Standard Specification, sponsored by the American Institute of Steel Construction, the cost of steel in buildings has been reduced approximately \$30,000,000 annually. We have brought about a standardization and an elimination of wasted, unnecessary steel. Of course, in individual projects the steel industry loses tonnage, but these reduced costs produce additional markets for their product and make larger sales possible.

"The salesman has demonstrated the benefits to humanity that such constructive policies foster. Industry cannot effect the economies essential to reduce the costs of commodities unless the business engaged in that industry are allowed to make a fair profit. Bankrupt or near bankrupt concerns would never be able to engage in the research and the progressive work necessary to bring about these beneficial ends.

"Only a hundred years ago steel was a prized commodity. It was scarce and dear. Due to man's ingenuity and commercial resources we have found ways of producing and marketing it at a price within the reach of the poor man. As a result we are selling daily in the United States steel to the amount of 3½ lbs. for each man, woman and child. That is a decided sales achievement and is

a monument to our sales genius, for no other nation in the world is consuming so much steel.

"It is essential that our political representatives understand these things. They must be made appreciative of the usefulness of our sales ability. It constitutes a potent influence in the present economic emergency.

"It is just the misunderstanding in high places of these things that creates unnecessary confusion in the public mind, which the salesmen throughout the country can clarify by being intelligently informed and by courageous action in stimulating the necessary support to our President at this time when the employment of our workers is so vitally important to progress and business recovery.

"As we look forward, we can find much in the way of encouragement. Salesmen will be called upon to a greater extent than ever before because the future problem of American business is that of distribution. We have solved our problems of finance and production, but when it comes to distribution there is much that will command our attention. More efficient, aggressive salesmanship will be necessary, and costs must be reduced. The price cutting evil must be eliminated, and salesmen must take the initiative in removing all unethical practices in the field of salesmanship.

"In the future sales must be based upon total cost plus a profit, and real salesmanship will get that profit. It is only the order takers who cut the price or sell goods at cost or below cost. The salesman's compensation depends upon profits, and unless profits are obtained, the earning capacity of the salesman is correspondingly reduced.

"It is well to bear in mind that in the future the attention of salesmen will be concentrated upon the following ethical program:

1. Replace volume sales with honest, intelligent and aggressive selling at a profit.
2. One price to all without any concession or discrimination.
3. Abandon all misrepresentation.
4. Abolish all secret rebates.
5. No sales at cost or below cost.
6. Eliminate all commercial bribery.
7. Maintain standards as established by the industry avoiding any substitution or impairment of quality or workmanship.
8. Cooperative attitude toward competitors.
9. Adopt a sales policy that is fair to all then vigorously carry it out.
10. Refuse to engage in price-cutting because of some rumor that a competitor had submitted a lower price.
11. Insist that every order includes a reasonable profit.
12. Support your trade organization to the limit of your ability.

"As we look forward to the next ten years, we anticipate great development of all industry. Greater buildings and bridges will be erected, and there will be many advances in science and invention that would stretch the imagination of all of us.

"The electrical industry is on the verge of revolutionizing the whole process of manufacturing and distributing electricity.

"The natural gas industry with all of its vast pipe lines in bringing natural gas into remote cities and towns.

"The chemical industry by applied

research is bringing into being many new industries as new processes are developed.

"The coal industry is making preparations to utilize waste materials by converting them into electrical energy at the mines.

"The railroad systems are engaged in electrification programs.

"The aviation industry is in its infancy. It may, and probably will, accelerate the whole system of transportation.

SAN FRANCISCO BUILDING SLUMPS DURING YEAR 1930

San Francisco closed the year 1930 with a total of 6,541 building permits issued for improvements involving an expenditure of \$22,726,994, the lowest annual total, both in the number of permits granted and money expended, since the year 1921 when the permits registered 6,313 for improvements valued at \$22,244,672, according to figures compiled by John B. Leonard, superintendent of the Bureau of Building Inspection of the Department of Public Works.

During the year 1929 a total of 7,120 building permits were issued for construction aggregating an expenditure of \$33,682,025. During 1928, records show, 8,656 permits granted for work costing \$37,765,382.

December activities registered 445 permits for work costing \$2,292,388 as

"The American salesman has always been inventive, but in the future he will be even more so. He must know science as well as psychology. He must have full acquaintance with engineering and invention as well as his outlets and his markets. And above all the salesman of the future must know his politics as well as his economics because upon his shoulders will rest very largely the forestalling of those obstructive legislative acts which might cripple and hurt American business."

compared with 465 permits for the corresponding period in 1929 when the money expenditure totaled \$1,617,691.

Following is a segregated report of the December, 1930, activities as summarized by Superintendent Leonard:

Class	No. of Permits	Est. Cost
A	1	\$ 80,000
B	4	152,000
C	4	152,000
Frames	87	490,740
Alterations	350	221,577
Public Bldgs.	2	538,071
Harbor Bldgs.	1	750,000

Total 445 \$2,292,383
NOTE: A complete tabulation of the San Francisco building permit expenditures, by months, for the past eleven years will be found on page five of this issue.

MASTERS OF ARCHITECTURE JOIN RANKS OF UNEMPLOYED

Graduates of the foremost schools of architecture here and abroad have been thrust into the ranks of the unemployed, the American Institute of Architects reports. In the report on New York it is estimated that there are 3,000 architects and 120,000 architectural draftsmen. Investigation indicates that at least ten per cent of this number are in need. Among them are graduates of university teachers, practicing architects, and men who have won prizes and medals for outstanding achievement in their profession. Nearly 500 have registered at the bureau set up by the Architects' Emergency Employment Committee in New York City.

Many of the registrants evidence urgent need. Skilled men who have earned more than \$5,000 a year are now lucky if they can earn the emergency stipend of \$15 a week, it is said. One man "would drive a truck." Another "would gladly do anything however menial." More than three-quarters of the idle draftsmen have from one to three persons dependent upon them for support. Their ages range from 24 to 60, and their length of experience from 2 to 41 years.

Among them are men who have received degrees from New York University, the College of the City of New York, Columbia University, the Yale School of Fine Arts, the Beaux Arts Institute, The Ecole des Beaux Arts, Cornell University, Massachusetts Institute of Technology, and the University of Pennsylvania, Wisconsin, Illinois and Michigan.

The majority have served long apprenticeships in offices of leading architects in New York, London, and the ateliers of Paris. They include men who have worked on buildings such as Washington Cathedral, where Admiral Dewey and President Wilson are buried, and the Stanford University buildings.

The Architects' Committee, in collaboration with the Emergency Work

Bureau of the Emergency Employment Committee, has so far been able to give employment to only fourteen of the most needy draftsmen on the basis of \$5 a day for a three-day week.

One of the first draftsmen to work at the emergency rate of \$15 a week is a University of Pennsylvania graduate with a wife and two boys to support. In addition to his university training he has studied in Europe and has fine New York references. He has earned \$100 a week, but as he has been out of work for a year, his resources are exhausted and his plight is desperate.

Another draftsman who has joined the long line which forms at four o'clock in the morning outside the headquarters of the Emergency Work Bureau in Wall Street is a man with a Decatur and three children to support. His earnings have been \$50 a week. Despite his eleven years' experience and the beautiful drawings he has to show he has no hope of adequate earnings to meet expenses.

These two draftsmen are typical of the fourteen men with wives and two or three dependent children, who are considered fit candidates for relief in the lines of destitute men.

However, the Emergency Work Bureau has not the facilities to take care of such cases as that of the Columbia University graduate who also studied at the Beaux Arts Institute of Paris and now has a wife and mother to support. He has been out of a job for the last six months.

He is 34 years old, has previously been employed for eight years as chief designer with three of the foremost architects' firms in New York, and his work has often illustrated one of the leading architectural magazines. He now seeks work on a part or full time basis as an architect's renderer.

The case of the Cornell man who is a bachelor, 42 years old, with 17 years' experience and first-rate references, who has been out of work for the last

eight months and "will accept any employment," having just recovered from two months of illness, also falls outside the province of the Emergency Work Committee.

The 24-year old man who recently completed the five-year course in mural decoration at the Yale School of Fine Arts, whose father is now out of work, whose brother and sister are too young to work, and who had earned \$40 a week toward their support, is another instance of the calibre of the draftsman seeking placement.

One of the applicants now in urgent financial need has been awarded the medal of the American Institute of Architects for distinguished work. One, with a dependent who has been out of work for the past four months. He taught formerly for four years in one of America's most prominent universities a course in "descriptive geometry, perspective, shades and shadows," and subsequently worked five years in one of the leading architect's offices in this city.

Another man now eager to find employment as an able architectural draftsman is a former member of the American Institute of Architects and of the Beaux Arts Society. He has had forty-one years' experience and has done brilliant work in New York, Chicago and throughout America. He is now about 60 years old, and has a wife dependent upon him for support.

Reasons for unemployment are various. Many are traceable to the slowing up and cessation of building projects, and the complete shutdown of architectural departments in banks, and other institutions.

In response to the appeal of the Architects' Emergency Committee, only four organizations requiring the services of architectural draftsmen have so far notified the Committee of positions that may be open.

TRADE EXTENSION CLASS IS STARTED

The new Smith-Hughes Trade Extension Classes of the Technical Department of the Public Schools Evening High School, Eighteenth and Dolores Sts., will be started this week, it is announced by A. E. Roberts, chief instructor of the Technical Department at the high school.

These new free public classes are conducted for the skilled workmen and apprentices engaged in the engineering and building trades. The Smith-Hughes plan of education for adults provides extra financial aid from the Federal and State government to the San Francisco board of Education for the maintenance of this type of technical education.

The Trade instruction includes Mechanical and Building Trades Drafting, Plan Reading, Industrial Applied Science, Industrial Applied Mathematics, Estimating, Applied Mechanics, Applied Electricity, Diesel Engine Construction, and Operation, Marine Construction and Operation, Power House Engineering, Telephone Engineering, Practical Steel Metallurgy, Concrete and Steel Construction, Practical Advanced Surveying, Oxy-acetylene Welding, and Advanced Decorative Painting, Graining, Varnishing, etc.

It is expected that other trade classes will soon be added in compliance with public requirements.

Frank Hatch, Secretary of the Building Material Dealers' Association of Northern California, at the recent convention of that body in San Francisco, reported five new members during the year 1930, there being F. C. Hanson, Lumber Co., Corvallis; Urban Bros., Palo Alto; Steve Anderson & Son, Mayfield and the San Francisco Materials Company of San Francisco.

THE OBSERVER

What He Hears and Sees on His Rounds

An ordinance has been presented to the San Mateo County Supervisors providing that work on all county projects would be done by residents of the county. It was referred to District Attorney Swart for report.

As a possible measure of relief to the unemployed, general contractors affiliated with the Orange County Builders' Exchange with headquarters at Santa Ana, have decided to put in to effect during the present depression a five-day working week.

Oregon State Association of County Commissioners and County Judges in annual convention in Portland, Ore., last month, voted to resist any changes in the present laws governing road financing. The action is a direct rejection of any proposal to increase the gasoline tax.

Stockton Chapter, California State Association of Architects has requested the U. S. Treasury Department that a local architect or firm be employed to prepare working plans for the proposed new \$25,000 federal building to be erected in that city. A site for the structure has already been secured.

Thirteen Bridgeport, Conn., contractors, constituting the dwelling and miscellaneous construction division of the Builders' Exchange, have agreed to enter into a cooperative advertising campaign during 1931 to promote the building industry in Bridgeport. It will consist of 36 quarter-page advertisements in local newspapers.

Oakland city council has passed an ordinance creating thirty temporary emergency laborer jobs in the street department at \$5 a day. The work is to be staggered, allowing 15 men to work three days a week and a second group to work the remaining three. This is one of the city's steps to relieve unemployment.

Directors of the Merced County Chamber of Commerce have adopted resolutions protesting against employment of men from San Francisco and Sacramento in connection with the Yosemite Highway Cut-off in Mariposa County. Reports indicate that 108 men were imported from San Francisco to work on the project.

Cement Reference Laboratory is now arranging for a second tour of inspection of cement-testing laboratories throughout the country. This service, which at present consists of inspecting cement-testing apparatus and demonstrating test methods, is rendered without charge. Laboratories which desire inspection should make prompt application to the Cement Reference Laboratory, U. S. Bureau of Standards, Washington, D. C.

Fresno county's highway maintenance department, formed as a unit of the county government with the voting of bonds for a highway system went out of existence Dec. 31. Under an agreement arrived at by County Surveyor Chris P. Jensen, who heads the department, and members of the board of supervisors, the plan is to have the separate department for the care of the bonded roads was abandoned. The action came at the suggestion of Jensen, and was made effective at the close of the year.

Portland Ore., reports the issuance of 6943 building permits during the year 1930 for improvements involving an expenditure of \$12,951,550 as compared with 7691 permits in 1929 for work costing \$15,493,310. A tentative schedule of projects to be undertaken within the next six months, both public and private, will involve an expenditure of \$8,000,000, it is reported.

Theodore Ahrens, president of the American Radiator and Standard Sanitary Corporation, addressing the Louisville Board of Trade, advocated a five-day working week, with six days' pay, as a solution for the unemployment problem.

He said the advent of machinery and various labor-saving devices has resulted in a serious problem and that it may be necessary eventually to adopt a six-hour day. He said:

"I believe we have reached the bottom of this depression, and while recovery may be slow, it will be steady."

During the year 1929 the Los Angeles city building department issued 20,612 permits with an estimated valuation of \$74,088,825 as compared with 21,721 permits with an estimated valuation of \$93,016,160 for the year 1929. For the month of December, 1930, the number of permits issued was 2056, with an estimated valuation of \$5,283,235 as compared with 2201 permits with an estimated valuation of \$3,992,459 for the same month a year ago.

Figures compiled by the census bureau show the average price paid by contractors for Douglas fir (2x4-16 ft.) delivered by the job at Los Angeles on Oct. 1 was \$31.50 and for common boards, 1x6, was \$30.50. Prices for the same lumber at San Francisco were \$25.00 and \$25.00, and at Seattle \$17.00 and \$16.00. The average price paid by contractors for No. 2 vertical grain fir flooring at Los Angeles was \$54.50, at San Francisco \$50.00, and at Seattle, \$38.00.

A revised draft of the proposed American Standard for fabrication of hangers, supports, anchors, sway bracings, and vibration dampeners, as available through the American Standards Association, 29 West 29th Street, New York City. The new draft includes a number of revisions made in the previous draft which was circulated several months ago. The committee which is working on the project is under the sponsorship of the American Society of Mechanical Engineers.

Employees of the Standard Sanitary Manufacturing Company at the two Richmond, Calif., plants are being put on a five-day week basis, instead of a three-day week, according to Frank Kales, coast manager of the company. The men have been working on a reduced shift for several months, but expect increases in business and anticipation that there will be further increases after the first of the year has caused more days to be added to the schedule. Approximately 425 men are employed at the two plants.

An unusual feature involved in the bidding on the Union High School building at Florence, Ore., proposals for which were received some time ago, has attracted some attention. Each contractor, according to information received, was furnished a complete quantity survey together with plans and specifications.

By this means, all bids were compiled on a uniform basis as to quantity of measurement, thereby removing the element of gamble as to quantities.

This action was taken at the request of Cleo H. Jenkins, Albany, architect for the project, who believes the advantages gained as derived from accurate quantity surveys from the architect's and owner's standpoint.

There was a saving of about \$3000 worth of contractors' and sub-contractors' time, by the elimination of duplication of effort through furnishing complete quantities to the respective trade, according to Charles Burton, quantity surveyor, who furnished the surveys on the job.

Close upon Sears, Roebuck Co.'s announcement of instalment financing of home modernization, the Security Finance Corp., Washington, D. C., enters the field with a similar plan for independent building material suppliers and contractors, says The Business Week.

Charges, based on the cash price for the job, approximate 1% per month. The loan is amortized in equal monthly instalments, one of \$300, for instance, being covered by a note for \$326, with 12 monthly payments of \$28.

The contractor, when submitting bids on modernization jobs, includes the finance charge, notifies the company when the contract is obtained, signs the loan agreement, and issues a special form of finance company note and, when he has endorsed the note, secures the money. A fair amount of equity in the property, plus a good reputation, form the main qualifications demanded from the home-owners.

Loans have averaged less than \$500, but jobs in amounts of \$800 to \$1,000 are handled in considerable numbers, generally on 3-year terms.

Within five years, or by the end of 1935, the San Francisco bay bridge from Rincon hill via Yerba Buena Island to Oakland, should be built and open to traffic.

That was the prediction made by Mark L. Requa, chairman of the Hoover-Young Bridge Commission, in a report to members of the San Francisco Electrical Development League.

One of those years will be spent in getting the necessary bills through Congress and in obtaining franchises and drawing up contracts, Requa said.

He cited the estimates of the bridge engineer, Ralph Moskiski, that it should take about four years to construct the bridge after work is started.

Decrying the "timidity of business men and legislators in the recent business crisis", ninety economists meeting in New York Jan. 4, endorsed a billion dollar loan program to finance construction. The indorsement of the plan of the emergency committee for Federal public works for building of public improvements came from university and college leaders and labor officials from all parts of the Nation. The economists say the Federal Government should hasten return of prosperity by large scale expansion in five large fields, namely, highway building, irrigation, draining and improved water transport, reclamation of waste lands and flood control and elimination of grade crossings.

Students of architecture in the United States and Canada are invited to participate in a competition for the design of the most beautiful highway bridge in steel. Previous competitions of this nature have been held under the auspices of the Beaux-Arts Institute of Design. This year the competition will be held directly by the American Institute of Steel Construction, which offers a prize money of \$500 for the first, \$250 for the second, and \$100 for the third best design judged by a committee of architects and engineers of international importance. The change in procedure was made in order to conform to the plans for a similar competition held by the Institute among students of engineering. Students of architecture who wish to enter this competition are invited to submit to the American Institute of Steel Construction, 206 Madison Avenue, New York, N. Y., their preliminary sketches to be placed in judgment on April 3, 1931. From these the ten best will be selected for final development, and the final drawings will be judged on May 1 next. Full information may be had by addressing the Institute.

California and other Western States have been seriously handicapped in bidding on government contracts to meet Western requirements, due to the existing ruling of the Treasury Department, under which firms seeking to secure contracts to furnish equipment, furniture and supplies for use in federal buildings erected or to be erected anywhere in the United States, must make bids based upon factory cost, freight charges from the factory to Washington, D. C., according to the California State Chamber of Commerce. The free manufacturers and merchants of the West from such laws and regulations which exclude them from competitive bidding on goods which may be used by the Federal Government in the Western States, the State Chamber of Commerce has asked the State Representatives in Congress to obtain the assistance of Congressional delegates of other Western States in requesting the Treasury Department to amend this ruling, either through zoning or by other means. Chambers of Commerce have also been asked to cooperate in an effort to secure a reasonable share of the Western requirements of the Government for California and other Western States.

Increased buying throughout the country has caused the Norge Corporation, Detroit, manufacturers of Norge Electric Refrigerators, to readjust their employment and production schedules which now call for the doubling of the working force in the Detroit and Mukwonago factories. Fifteen hundred additional employees will go to work in January. There will be no cuts in wages, announced H. E. Blood, president of the Norge Corporation, which is a subsidiary of Borg-Warner Corporation.

America is surpassing all other nations, modern or ancient, in the creation of original and artistic architectural designs, said Dr. Mario Soldati, doctor of literature from the University of Turin, Italy, and lecturer in Barnard College, Columbia University, New York City, lecturing in Denver.

"American architecture combines utility with art and beauty," said Dr. Soldati.

"As sheer art the ancient architects have not been surpassed but modern American architecture goes beyond art to other equally great qualities."

ALONG THE LINE

George C. Foss, electrical contractor, has been elected president of the Sacramento Exchange Club.

Perley S. Woodard, 75, Sacramento building contractor, died in that city Dec. 30, following an illness of several weeks. He was a native of New York.

Ralph Ray, 51, excavating contractor of Oakland, died in that city Dec. 29 following a brief illness. Ray was a native of Oregon. He is survived by his widow, two daughters, three sons and a sister.

Yuba Associated Engineers of San Francisco, has been incorporated. Directors are N. Cleaveland, Berkeley; W. C. Hammon, San Francisco; W. B. McCauley and G. R. Oliver, Oakland, and E. T. Cook, San Rafael.

Thomas J. Sullivan, 70, for 25 years a building contractor in Sonoma county, died in Santa Rosa, Dec. 30, as the result of injuries sustained in an automobile accident. His widow, four sons, three brothers and a sister survive.

W. B. Taylor, as assistant in the county engineer's office of Butte County, has resigned to accept a position as engineer with the Thermaito Irrigation District. He will be succeeded in the county office by Claude B. Boynton of Oroville.

Timothy A. Reardon, for seventeen years a member of the Board of Public Works, has been re-elected president of that body. Other members are Col. Chas. E. Stanton and Fred W. Meyer, who will resign to become chief of the State Bureau of Purchases and Supplies.

Robert L. Jones, chief of flood control and reclamation of the State Department of Public Works, has been elected president of the Board of Directors of the Sacramento Municipal Utility District. Ben Leonard was elected vice-president and Raymond C. Oakley, retained as secretary.

Frank B. Rae, for the past seven years city electrical engineer for Berkeley, has submitted his resignation to City Manager H. R. Thompson. The resignation is effective January 15. The work of the electrical engineer's department will probably be assumed by the office of Harry Goodridge, Berkeley city engineer.

San Jose city council is conferring with H. J. Brunner, consulting structural engineer of San Francisco, on the advisability of requiring certain type of fire prevention apparatus in fireproof structures. Petitions have been submitted to the council seeking to eliminate a provision in the building laws requiring the installation of automatic sprinkler systems in the basements of fireproof structures.

Substantial progress is reported in the work to develop a standard measuring book which may be used by all lumber producing regions of the United States. It has been decided to employ a 7000 series, the sizes of which are being reworked to conform to American lumber standards sizes. Final approval is being sought, which, if obtained, will result in publication of the book in early 1931.

TRADE NOTES

Federal Mail Chute Corp., Ltd., has been incorporated in San Francisco. Directors are A. L. Peacock, L. R. Steinberg and A. B. Copeland.

Safety Switchboard Manufacturing Co., has been incorporated in San Francisco. Directors are J. C. Lashan, W. A. Dolé and M. F. Cirelli.

Lowrie Paving Co. of San Francisco, capitalized for \$500,000, has been incorporated. Directors are M. W. Lowrie, Myrtle Lowrie and J. F. Lowrie.

American Tractor Equipment Co. of Oakland, Calif., announces the appointment of G. Livingston as Eastern sales manager. Livingston will have his headquarters at the Peoria, Ill. plant of the company.

Industrial Building and Loan Association, capitalized for \$200,000 has filed articles of incorporation in Oakland. Directors are: W. H. Hendricks, A. J. DeLamar, Purcell Rowe, A. M. Gilbert, Edgar H. Rowe, Jr., all of San Francisco.

A. G. Whittemore of the Frigidaire Sales and Service with headquarters at 142 Macdonald Ave., Richmond, has been admitted to membership in the Builders' Exchange of Contra Costa County, it is announced by W. A. Brown, executive secretary.

Minneapolis - Honeywell Regulator Distributors have established a direct factory branch at 57 Market St., San Francisco, where they will carry a warehouse stock of heat control apparatus for distribution throughout California. Headquarters and the main factory is located at Minneapolis with a branch factory at Wabash, Indiana. A. F. Erickson is San Francisco branch manager.

Lincoln Electric Co. of Cleveland, Ohio, has placed S. H. Taylor Jr., in charge of the Pacific Coast territory, with headquarters in Los Angeles. He succeeds W. S. Stewart, recently appointed district manager of the Cleveland territory. Appointment of L. P. Henderson as manager of the San Francisco office is also announced, as well as the appointment of E. J. Pfister as district manager of Kansas City, Mo.

H. G. Sperry, Call Bldg., San Francisco, has been appointed Pacific Coast representative for the Hitchcock Company, Inc., of Boston, Mass., manufacturers of "Covale," a new discovery in rubber chemistry, offering a self-vulcanizing rubber compound which comes in paste form for resurfacing belts, hoppers, agitators, classifiers and covering pipes, shafts, etc. The product is marketed in four colors—red, gray, green or black.

Appointment of R. E. Mittelstaedt, retiring adjutant general, as vice-president and general manager of the newly organized California Line Products Company, Ltd., is announced in Sacramento. The company, of which Bayles C. Clark, former Sacramento city engineer, is president, will manufacture carbon dioxide or "dry ice" and will erect a plant on a 60-acre tract of land to be purchased between Roseville and Ben Ali. Mittelstaedt served as adjutant general for eight years in the administrations of Governor Young and former Governor Richardson.

HERE—THERE EVERYWHERE

Annual banquet-meeting of the Portland, Ore., Builders' Exchange will be held next Wednesday evening in the Grand Ballroom of the Metropolitan Hotel. George Corawell, publisher of "The Timberman", lumber magazine of Portland, will be the principal speaker. His topic will be "Conditions in Russia and Europe."

Mayor James M. Curley of Boston, Mass., recommends a five-day week for all city employees in his annual message to the city. He asks the council to study the plan for reduction in hours this year so that it might be put into effect in 1932.

Standard Gypsum Co., of Canada, Ltd., plans immediate construction of a \$100,000 plant on the Vancouver, B. C., waterfront, it is announced by F. R. McRitchie, managing director for the company.

For use with dry, stiff concrete when tamping is permitted or specified, the Ord finishing machine for concrete pavements, manufactured by the Elaw Knox Co., Pittsburgh, Pa., can now be furnished equipped with a tamper. The finisher, which runs on wheels bearing on the steel forms, can be obtained with either single or double screed, with or without tamper.

American Standards Association, 29 West 39th St., New York City, has approved a standard for track bolts and nuts based on a study of different types used by railroads and electric railways in the United States and Canada. Copies can be obtained from the headquarters of the association.

Officers to serve for the ensuing year will be elected at a dinner-meeting of the Washington State Chapter, American Institute of Architects, to be held at the Washington Athletic Club, Seattle, next Saturday evening. Officers nominated are: President, R. E. Borhek; first vice president, J. L. Holmes; second vice president, Earl N. Dugan; third vice president, Stanley A. Smith; fourth vice president, John W. Maloney; secretary, Lance E. Gowen; treasurer, Albert M. Allen; executive board, three-year term, G. W. Stoddard and five delegates to the institute convention, Lance E. Gowen, Sherwood D. Ford and Nelson J. Morrison.

If the states will provide \$65,352,801 to match Federal appropriations, \$300,726,678 may be spent in the improvement of public highways during the current year, it is announced by Secretary Hyde of the Department of Agriculture. The Federal government has already appropriated \$168,568,446 for roadway construction which will be expended regardless of any additional aid from the States. There is a balance of \$67,000,000 left over for the year ending June 30, 1930. Should the States now make provisions to match what is available to them from the unexpended balance from 1930, it would add \$132,168,232 to the sums already authorized.

Walter L. Morgan has been elected president of the Spokane Section, American Society of Civil Engineers. J. H. Rohb was elected first vice-president; V. H. Greisser, second vice-president, and B. J. Garnett, secretary-treasurer.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 67 Post Street, San Francisco. (Phone SUtter 1684).

R-3444-S ENGINEERS and draftsmen, experienced in industrial and power plant work, particularly piping; also electrical draftsmen experienced in power and lighting installations. Salary \$225-\$250 per month. Apply by letter. Location, Southern California.

R-3451-S ENGINEER, experienced in the operation of kilns for burning limestone. Apply by letter. Location, Northwest.

R-3452-W-2603-C-S PROFESSOR for school of industrial engineering at mid-western university, to teach various phases of printing. Must have had broad experience in printing and be acquainted with the printing industry. Position is likely to lead to development of research. Salary \$5000 a year. Apply by letter. Location, Middlewest.

K-333-W-2971-C-S ASPHALT ENGINEER, graduate civil engineer, single, not over 32, with experience on hot mixed type sheet asphalt, asphaltum concrete, penetration preventing by the grouting method, asphalt emulsions, ability to decide proper percentages of various grades of stone, sand, cement and asphalt to secure a road of maximum density, etc. Must be familiar with asphalt literature. Salary \$3600-\$4000 a year. Apply only by letter. Location, Indiana.

R-3452-SENIOR PERSONNEL EXAMINER for Engineering and Trades positions. Should be graduate civil or mechanical engineer with special training and experience to qualify for testing of applicants for technical positions. Age limits, 25-50 years. Salary \$250-\$300 month. Apply by letter for full details. Location, California.

K-355-W-2159-C-S MECHANICAL ENGINEER, experienced in the design and construction of coal tips, skips, rotary dummies, conveying and preparation machinery. Single man preferred. 2 years contract. Salary about \$7000 a year and travelling expenses. Apply only by letter. Location, Russia. Headquarters, Chicago.

K-333-W-2971-C-S ASPHALT ENGINEER, graduate civil engineer, single, not over 32, with experience on hot mixed type sheet asphalt, asphaltum concrete, penetration preventing by the grouting method, asphalt emulsions, ability to decide proper percentages of various grades of stone, sand, cement and asphalt to secure a road of maximum density, etc. Must be familiar with asphalt literature. Salary \$3600-4000 a year. Apply only by letter. Location, Indiana.

K-234-W-2134-C-S DESIGNER, graduate, American, of structural steel and reinforced concrete on head-frames for mine-shafts, conveyors, galleries, etc. American staff for Russian service. Two year contract. Salary \$6000 a year out of which living expenses must be paid. Allowance for travelling expenses. Apply only by letter. Location, Russia. Hdqtrs., New York.

ENGINEERS, with or without sales experience, who might be interested in life insurance selling, are invited to take one week night school training course conducted by aggressive San Francisco agency. No obligation incurred.

1930 BUILDING OPERATIONS LISTED

Final tabulation of building permits by John B. Leonard, superintendent of the Bureau of Building Inspection of the San Francisco Department of Public Works, show 1714 permits granted for new buildings during the year 1930 costing \$19,581,721, and 4827 permits for alterations, repairs and additions costing \$3,145,273. Following is a segregated report of the 1930 activities as compiled from official records:

	No. of P'mits	Est. Cost
Class A	12	\$ 2,562,832
Class B	23	1,684,974
Class C	159	2,874,251
Frame Bldgs.	1494	7,192,298
Alterations	4827	3,145,273
Public Bldgs.	15	2,293,636
Harbor Bldgs.	3	1,345,000
State Bldgs.	1	260,000
U. S. Govt. Bldgs.	7	1,378,679
Total	6541	\$22,726,994

ASPHALT ROOFING GROUP IS ACCUSED

The Asphalt Shingle and Roofing Institute, with numerous affiliated companies and individuals, is charged by the government in federal court with violation of anti-trust laws, according to word from New York.

The department of justice in a bill of indictment charged that companies and individuals affiliated with the institute had entered into agreements to fix uniform and non-competitive prices for the sale of non-patented asphalt and shingle roofing products.

J. S. Bryant, manager of the institute, denied the government's accusation and declared the principle in all the institute's agreements always had been that each manufacturer shall be free to fix his own prices or charge them at any time.

A. I. A. FAVORS CAPE SABLE PARK

The American Institute of Architects, it is announced, favors the proposed Everglades National Park in Cape Sable region of Florida. A bill to establish the Park is now pending in Congress.

The Board of Directors of the Institute has adopted a resolution presented by Franklin O. Adams of Tampa, regional director of the South Atlantic Division, declaring that the Park "would preserve intact, for the education and enjoyment of future generations, one of the most beautiful of the nation's few untouched areas."

The architects warn that this region, now abundantly supplied with almost limitless varieties of sub-tropical animal and plant life, is in grave danger of being despoiled.

"If such uncontrolled encroachment is allowed, many interesting and valuable species will become extinct and great natural beauty destroyed," the resolution asserts. "The American Institute of Architects endorses the movement to create and establish the Everglades of Florida as a National Park and urges Congress to consummate, as expeditiously as possible, the dedication of this region as a National Park to the educational and recreational betterment of the people of the United States."

James K. James, new county surveyor of San Mateo County, has taken up his official duties succeeding George A. Kneese, whom he defeated at the last general election.

KELHAM HEADS INDUSTRIAL BODY

George W. Kelham, architect, was elected president of the Industrial Association of San Francisco at the organization meeting of that body held yesterday.

J. E. Cushing, vice-president and general manager of the American Hawaiian Steamship Company, was elected vice-president. Chas. R. Page, vice-president of the Fireman's Fund Insurance Company was elected secretary and J. W. Mailliard, Jr., of the firm of Mailliard and Schmiedel, was elected treasurer.

BOND LIABILITY IS NOT AFFECTED BY CHANGE IN PROCEDURE

An amendment to the state law regulating the filing of claims of persons employed by contractors on public works merely changed the procedure and did not affect the liability of the bond, it was ruled by the Court of Appeals, Division One, in a decision handed down on appeals by the Simons Brick Company and R. G. Blessing from the judgment of the superior court in actions against the Eagle Indemnity Company, says Southwest Builder and Contractor. The appeals were taken together and presented on the same record.

The suits arose out of the construction of two public schools in the Los Angeles city school district, in connection with which bonds were furnished, with the indemnity company as the executor. The Simons company furnished bricks for the two schools and Blessing, as a subcontractor, constructed a tile roof on one of the structures. The brick concern charged that \$2392.33 is still owing and Blessing declared \$375 is due.

Shortly after the bonds had been executed, the act to obtain payment of claims was amended, the amendment becoming effective July 23, 1925. The act prior to the amendment, required that before an action could be commenced on the bond, the claimant must file with the official body by whom the contract had been awarded a verified statement of his claim showing that the sum due had not been paid.

The amendment provided that the filing of such claim should no longer be a condition precedent to the commencing of an action on the bond. It was stated that in the case before the court neither of the appellants had filed a statement of its or his respective claim with the school district.

"It is conceded," the court observed, "that if the amendment did apply to the claims upon which the actions were prosecuted, the appellants are entitled to judgments for the respective amounts."

The appellants contended that the amendment merely changed the procedure and the court ruled that their contention must be upheld. The court reversed the lower court's judgment and ordered that court to enter judgments for the brick company and Blessing, with attorney's fees.

NO HELP WANTED

According to word from London, a new mechanical street sweeper does the work of hundreds of men in one-tenth of the time. It carries 84 containers on a truck body and the dirt swept from the street is automatically deposited in the cans. When these are filled, the truck drives off and other containers are placed on the machine for filling.

IRRIGATION DISTRICT LEGISLATION PREPARED BY STATE ASSOCIATION

Four proposals dealing with irrigation district legislation were prepared to be submitted at the next session of the state legislature by the executive committee of the Irrigation Districts' Association of California at a two-day meeting, which concluded in Merced last Monday.

The first proposal deals with partial redemption of defaulted lands, in cases where land has been deeded to the state, the proposed amendment would provide that a person could redeem part of the land by paying defaulted taxes on that part only.

An alternative of issuing either sinking fund or serial bonds would be offered irrigation districts in another proposal.

The committee would extend the period of bonds from forty to fifty years.

The final proposal would provide for refinancing of irrigation districts by the state on 3 1/2 per cent loans.

HIGHER WAGES, SHORTER HOURS, A. F. OF L. PLAN

Four principles described as fundamental for restoration of prosperity have been set forth by President Wm. Green of the American Federation of Labor.

- 1—Higher wages to give purchasing power to consumers.
- 2—Shorter hours, to give employment to as many as possible.
- 3—Organization of wage earners to keep their incomes advancing with increased productivity.
- 4—Development of co-ordinated control of industries.

Green listed a number of signs which he said were encouraging in the light of present depressed economic conditions. They included: Indications that the bottom has been reached in the deflation of prices.

Reports from 24 cities showing increases in unemployment were less than in November.

Evidences of returning confidence in the production policies of large companies.

ELECTRICAL PRODUCTS SHOWS PROFITS GAIN

Electrical Products Corporation of California and Electrical Products Corporation of Oregon, operating units of Claude Neon Electrical Corporation, Ltd., of Delaware, on Dec. 29 reports net profits for November after all charges, at \$55,656, compared with \$49,559 for the same month last year.

For seven months ended November 30, net profit, after charges, was \$571,995, against \$490,847 for the corresponding period in 1929.

Profits of the operating subsidiaries, which accrue to the holding company, do not include figures for the Mexican company or miscellaneous income from royalties or other sources, which are now approximately \$20,000 monthly, according to President Paul D. Howse.

Union Building and Loan Association has opened headquarters at 1178 Market St. Officers and directors of the association are George L. Leonard, president; Joseph A. Leonard, vice-president and secretary; John L. McNab, director and general counsel; Joseph G. Morrow, director; M. J. Conboy, director; John S. Sanford, controller, and C. A. Meyers, assistant secretary.

AUTOMATIC SPRINKLER REVISION IS DESIRED

Revision of the city building code insofar as fire protection devices are concerned looms as the result of recent complaints by San Jose property owners that certain of the devices required by the code are not necessary.

Officers of the San Jose Community Hotel Corporation, owners of Hotel de Anza, Santa Clara Street and Notre Dame Ave., protested to the San Jose city council against the requirement of an automatic sprinkler system in Class A building basements where there are inconsequential fire hazards in the basement.

It was pointed out that no hazardous use of the basement of the new hotel is contemplated, the building is of fireproof construction and yet the ordinance requires an automatic sprinkler system.

A similar complaint was made two weeks ago by Warren Holmes of the San Jose Hardware Company, Holmes pointing out that the basement of the company building is used only for the storage of non-inflammable goods, principally hardware.

The council considered the matter informally and agreed to secure the opinion of competent fire underwriter engineers and building experts before taking any action on the present code.

A. G. C. AIMS TO FURTHER PRIVATE BUILDING PROJECTS

Credit stabilization, prequalification of contractors, establishment of standard bidding and the basing of the curtailment of day labor on public projects and last, but not least, ways and means to increase the volume of private building construction, are matters of importance scheduled for discussion at the annual convention of the Associated General Contractors of America to be held in San Francisco January 26 to 30, it is announced by Earle G. Lloyd, secretary of the Northern California Chapter of the organization.

Headquarters will be maintained at the St. Francis Hotel where all business sessions will be held.

The depressed condition of the construction industry itself will be a topic of much discussion. With residential building of all types pointing the way there has been a marked recession in work for private owners in all of the building sections of the industry during the past year while public construction in both the building and engineering fields has somewhat more than held up in volume.

Is it feasible or practical for organized contractors to influence or promote an increase in volume of private construction?—is a vital question to come before the convention.

"Much of the decreased volume in private building construction," Secretary Lloyd says, "is in the field of speculative building in which organized contractors are not primarily interested. Organized contractors do not desire to see a resumption of the speculative building fever that was so prominent during the past decade. They do, however, want to see private construction go ahead. Therefore, plans for procedure which will stimulate sound construction and sound investment and which will not let down the bars to wild cat speculative operations will necessarily be to the fore at this convention."

Building News Section

APARTMENTS

Construction Postponed Indefinitely.
APARTMENTS Cost approx \$50,000
SAN JOSE, Santa Clara Co., Calif.
 Mariposa and Race Sts.
 Two-story and basement frame and
 stucco apartments (8 apts.)
 Owner—W. Hodges.
 Architect—Charles McKenzie, Twohy
 Bldg., San Jose.

Contract Awarded.
APARTMENTS Cont. price, \$11,500
SAN FRANCISCO. SE Army and Al-
 abama Streets.
 Two-story and basement frame and
 stucco apartments (4 apts.)
 Owner—L. Figone.
 Architect—G. A. Berger, 309 Valencia.
 Contractor—J. L. Cuneo and F. D.
 Martini, care architect.

Sub-Contracts Awarded.
APARTMENTS Cost, \$60,000
SAN FRANCISCO. NE Beach and
 Scott Streets.
 Three-story and basement frame and
 stucco apartments (12 3- and 4-
 room apts.)
 Owner and Builder—V. Rasmussen,
 2255 North Point St.
 Architect—Irvine & Ebbets, Call Bldg.
 Electric Wiring—Aetna Electric Co.,
 1537 Webster St.
 Sheet Metal—J. J. Delucchi, 1525 Pow-
 ell Street.

Lumber—Christensen Lumber Co., 5th
 and Hooper Sts.
 Structural Steel—Golden Gate Iron
 Works, 1541 Howard St.
 Ornamental Work—Michel & Pfeffer
 Iron Works, Harrison and 10th.
 Plastering—M. J. King, 2343 Bay St.
 Plumbing and Steam Fitting—Higgins
 & Kraus, 741 Tehama St.
 Mill Work—Hogan Mills, Hearst Bldg.
 Painting—Herman Wachter, deYoung
 Bldg.

Oil Burners—Ray Burner Co., 401
 Bernal St.
 Hardwood Floors—Carl Stendell, 41
 Cumberland St.
 Refrigeration—Holbrook, Merrill and
 Stetson, 665 6th St.
 Cabinet—Independent Cabinet Co.,
 1932 Folsom St.
 Roofing—James Cantley Roofing Co.,
 666 Mission St.
 Stair Building—Atlas Stair Building
 Co., 12 Enterprise St.
 Cement Work—Thorson & Kirkevoog,
 640 Edna St.
 Ornamental Plaster—George Campbell,
 3443 17th St.

Sub-Contracts Awarded.
APARTMENTS Cost, \$125,000
SAN FRANCISCO. S Broadway 187 E
 Webster Street.
 Seven-story and basement Class A
 apartments (7 apts.)
 Owner—Wm. Helbing Sr., 1310 Lom-
 bard St., San Francisco.
 Architect—H. S. Helbing, 1310 Lom-
 bard St., San Francisco.
 Contractor—The Helbing Co., 1310
 Lombard St., San Francisco.
 Structural Steel—Judson Pacific Co.,
 609 Mission St., San Francisco.
 Electrical Work—Aetna Elec. Co., 1337
 Webster St., San Francisco.
 Lumber—Loop Lumber Co., Central
 Basin, San Francisco.
 Bids are now being taken on mill
 work.

Completing Plans.
APARTMENTS Cost, \$—
LOS ANGELES, Cal. Wilshire District
 Six-story and basement reinforced
 concrete apartments (59x120 feet).
 Owner—Walter Sant.
 Architect—Leonard L. Jones, 2504 W.
 7th St., Los Angeles.

To Be Done By Day's Work.
APARTMENTS Cost, \$85,000
OAKLAND, Alameda Co., Cal. West
 Claremont Ave. S Miranda St.
 Three-story and basement frame and
 stucco apartments (84 rooms).
 Owner and Builder—Lewis Graham,
 2227 64th Ave., Oakland.
 Architect—Not Given.

Plans Being Prepared.
APARTMENT Cost, \$800,000
SEATTLE, Wash. Sixth Avenue and
 Bell Street.
 Twenty-one-story fireproof bachelor
 apartment-hotel (2- and 3-room
 apts.)
 Owner—Seattle Business Properties
 Co., Fred K. Dent, president.
 Architect—Earl W. Morrison, Lloyd
 Bldg., Seattle.

Plans Being Completed.
APARTMENTS Cost, \$50,000
SAN FRANCISCO. 25th Avenue near
 Fulton Street.
 Three-story and basement frame and
 stucco apartments (12 2- and 3-
 room apts.)
 Owner and Builder—Fred. Anderson,
 1320 22nd Ave.
 Architect—Irvine & Ebbets, Call Bldg.
 Owner will take sub-bids within a
 few days.

Sub-Bids Being Taken.
APARTMENTS Cost, \$50,000
SAN FRANCISCO. SW Scott and
 Beach Streets.
 Three-story and basement frame and
 stucco apartments (12 2- and 3-
 room apts.)
 Owner and Builder—Thomas Quistad,
 2100 North Point St.
 Architect—Irvine & Ebbets, Call Bldg.

Sub-Bids Being Taken.
APARTMENTS Cost, \$45,000
SAN FRANCISCO. NW 30th Avenue
 and Fulton Street.
 Three-story and basement frame and
 stucco apartments (15 apts.)
 Owner and Builder—A. T. Morris and
 Sons, 3500 Fulton St.
 Plans by Owner.

SKILSAW Portable Electric Hand
 Saws (4 models).

SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attach-
 ments.

SYNTRON Portable Electric Ham-
 mers (4 models, motor-
 less).

MALL Flexible Shaft Machines (50
 models).

Electric Drills, Grinders, Buffers,
 Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric
 Tools.

1248 Mission St. Underhill
 San Francisco 7622

SALES . SERVICE . RENTALS

Preparing Working Drawings.
APARTMENTS Cost, \$100,000
SAN MATEO, San Mateo Co., Calif.

Hayshore Highway near Cypress.
 Three-story and basement reinforced
 concrete rooming house, apts. and
 stores (50x150-feet; 14 rooms, 22
 apts., 3 stores).

Owner—Withheld.
 Architect—F. W. Dakin, 625 Market
 St., San Francisco.
 Bids will be taken in about 2 weeks.

Low Bidder.
ALTERATIONS Cost, \$—
SAN FRANCISCO. 499 Buena Vista
 Avenue.

Alter residence for apartments.
 Owner—Mrs. J. A. Wilcox, premises.
 Architect—Henry H. Gutterson, 626
 Powell Street.
 Low Bidder—Clinton Stephenson Con-
 struction Co., Monadnock Bldg.

Sub-Bids Being Taken.
APARTMENTS Cost, \$85,000
OAKLAND, Alameda Co., Cal. West
 Claremont Ave. S Miranda St.
 Three-story and basement frame and
 stucco apartments (84 rooms).
 Owner and Builder—Lewis Graham,
 2227 64th Ave., Oakland.
 Plans by Owner.

Contract Awarded.
APARTMENTS Cost, \$15,000
BURLINGAME, San Mateo Co., Cal.
 Broadway near California Drive.
 One-story and mezzanine floor rein-
 forced concrete apartments and
 stores.
 Owner—Peter Lemperopolus, 1212 El
 Camino, Burlingame.
 Plans by Russell Coleman, 1404 Broad-
 way, Burlingame.
 Contractor—I. F. Sorensen, 1128 Lin-
 coln Blvd., Burlingame.

BONDS

SAN MATEO, San Mateo Co., Cal.
 —Trustees of the San Mateo Union
 High School District have called a
 meeting of citizens of the district for
 tomorrow night to consider the ad-
 visability of calling an election to vote
 bonds to finance additional school im-
 provements. A tentative program,
 prepared by Homer Martin, superintend-
 ent, contemplates the following con-
 struction:

BURLINGAME HIGH SCHOOL	
Land	\$17,500
Cement floor and new interior in girls' lock- ers, roof, and other re- pairs	27,500
Library, cafeteria and music rooms	76,000
Equipment for new buildings	25,000 \$146,000
SAN MATEO HIGH SCHOOL	
Auditorium	\$37,000
Furniture and equip- ment for auditorium	20,500
New boiler unit for au- ditorium	2,000
Completion of gym	3,000
Athletic field & bleach- ers	16,000
Tennis courts and en- closures	10,000
Imp. of grounds	4,000 \$145,000
Total	\$300,000

PORTERVILLE, Tulare Co., Cal.—A \$30,000 bond issue for the construction of a new fire station in Porterville will probably be included on the ballot at the municipal election next April.

VISALIA, Tulare Co., Calif.—Until February 2, bids will be received by county supervisors for purchase of \$7,600 bond issue of Livewood School District. Proceeds of the sale to finance school improvements.

FRESNO, Fresno Co., Cal.—County supervisors sell \$250,000 county hospital bond issue for premium of \$14,000. Proceeds of the sale will finance erection of additional units at the county hospital, plans for which are being prepared by Architects Swartz and Ryland, Brix Bldg., Fresno.

CHURCHES

Contract Awarded.

CHURCH Cost, \$150,000
LOS ANGELES, Cal. Thirty-fourth St. near University Avenue.

Four-story and basement reinforced concrete Class A church (85x130 feet).

Owner—University Methodist Church. Architect—C. Raymond Johnson, University of Southern California, Los Angeles.

Contractor—Wm. Simpson Constr. Co., Architects Bldg., Los Angeles. Construction will start immediately.

Preparing Preliminary Plans.

CHURCH Cost approx. \$100,000
SANTA BARBARA, Santa Barbara Co., Cal.

One-story reinf. concrete church. Owner—First Church of Christ Scientist.

Architect—Henry H. Gutterston, 526 Powell St., San Francisco.

Completing Plans.

CHURCH Cost, \$—
LONG BEACH, Los Angeles Co., Cal. 1086 Myrtle St.

One-story and basement frame and stucco church (30x74-ft.; to seat 400).

Owner—Methodist Episcopal Church. Architect—Clarence E. Aldrich, Pacific Southwest Bank Bldg., Los Angeles.

Low Bidders.

CHURCH Cost, \$50,800
LOS ANGELES, Cal. Jefferson and Third Avenues.

One-story and basement frame and stucco church (56x124 feet) to seat 600 (Sunday school to seat 800).

Owner—St. Paul's Presbyterian Church. Architect—Scott Quintin, Medical Bldg., Alhambra.

Low Bidder—R. S. Martin, 522 E. Broadway, San Gabriel.

Low bidders on other portions of work as follows:

Electric Wiring—English Elec. Co., Los Angeles, at \$2383.
Plumbing—J. L. Kroger, Los Angeles, at \$190.
Heating—Pacific Gas Radiator Co., at \$3554.

LOS ANGELES, Cal.—Trinity Missionary Church, Rev. E. W. Petticoat, pastor, 4377 Marathon St., contemplating erecting a new edifice at the corner of Lemon Grove Ave. and Hobart Blvd. The project will not mature for at least six months. Architect not selected.

Bids Opened—Held Under Adjudgment.
CHURCH Cost, \$40,000
SAN MATEO, San Mateo Co., Cal. San Mateo Drive.

One-story frame and stucco church

with tile roof (auditorium to seat 350).

Owner—First Congregational Church. Architect—Kent & Hass, 525 Market St., San Francisco.

Bids have been turned over to the committee for consideration.

Plans Being Completed.

CHURCH Cost, \$19,000
SAN FRANCISCO, Thirty-second Ave. and Ulloa St.

One- and two-story frame and stucco church with slate roof (to seat 400). Owner—St. Stephens Protestant Episcopal Church.

Architect—Charles Strothoff, 2274 15th St., San Francisco.

Bids will be taken in about two weeks.

PORTERVILLE, Tulare Co., Cal.—Trustees of the Methodist Episcopal Church have voted to purchase a pipe organ to be installed in edifice which will undergo extensive alterations at once.

Plans Being Figured.

SUNDAY SCHOOL BLDG. Cost, \$—
SAN DENISE, Los Angeles Co., Cal. 19 Maple St. near Lake Ave.

Three-story and basement reinforced concrete and steel Sunday school bldg. (142x49-ft.; 42 classrooms).

Owner—Lake Avenue Congregational Church.

Architect—Marston & Maybury, 25 S Euclid Ave., Pasadena.

FACTORIES AND WAREHOUSES

Plans Being Figured—Bids Close Jan. 19, 12 Noon.

SERVICE BLDG. Cost, \$45,000
REDWOOD CITY, San Mateo Co., Cal. Group of service buildings (wood frame and tile walls).

Owner—Pacific Gas and Electric Co., 245 Market St., San Francisco.

Plans by Eng. Dept. of Owner. Group includes warehouse, garage, service departments, superintendent's offices, etc.

SAN FRANCISCO.—Plant of Pacific Felt Co., 700-795 York St., suffers \$50,000 fire loss, including stored contents, American Woodworking Co., adjoining suffered slight damage.

Sub Contract Award.

ADDITION Cost, \$12,000
BERKELEY, Alameda Co., Cal. 2029 Channing Way.

One-story and basement concrete and brick addition to bakery (structure of steel, steel sash, etc.)

Owner—Langendorf United Bakeries, Inc., 2029 Channing Way, Berkeley.

Engineer—Ellison & Russell, Pacific Bldg., San Francisco.

Contractor—Barrett & Hill, 918 Harvard St., San Francisco.

Structural Steel—Industrial Steel Products Co., 53th & Doyle Sts., Oakland.

Excavation—Arliss Knapp Co., 961 41st St., Oakland.

Lumber—Sunset Lumber Co., 400 High St., Oakland.

Brick Work—Victor Dewight, 1828 Milvia St., Oakland.

AVON, Contra Costa Co., Cal.—C. C. Moore Co., Sheldon Bldg., San Francisco, awarded contract by Associated Oil Co., Associated Oil Bldg., San Francisco, to erect boiler plant and to the Western Pipe and Steel Co., 441 Market St., San Francisco, for the tanks in connection with the \$2,900,000 refining plant at Avon. Foundations have already been completed.

STOCKTON, San Joaquin Co., Cal.—Schmidt Lithograph Co., 2nd and

Bryant Sts., San Francisco, has purchased eight blocks of industrial lands in the Boggs Tract from Senator F. S. Boggs and plans construction of a plant for the manufacture of products similar to that of the Fibreboard Products Company. The time for construction is indefinite.

ISELTON, Sacramento Co., Calif.—Isleton Canning, near Sacramento, suffered a \$175,000 fire loss, including stock, Dec. 31. The plant was owned and operated by the Isleton Canning Company.

Sub-Bids Being Taken.

MFG. BLDGS. Cost, \$200,000
RIPON, San Joaquin Co., Cal. Group of concrete, hollow tile, brick and corrugated iron manufacturing bldgs. (to manufacture evaporated milk).

Owner—Meyerberg, Inc., Solidad, Cal. Plans by Eng. Dept. of Owner.

Contractor—H. H. Larsen & Co., 61 South Park, San Francisco.

There will be pasteurizing plant, etc. Sub-bids are wanted on all portions of the work.

Sub-Bids Wanted.

PACKING PLANT Cost, \$—
LOS ANGELES, Cal. 3030 E. Verbon Avenue.

Two-story and basement reinf. concrete meat packing plant (48x145). Owner—Union Packing Co.

Architect—Not Given.

Contractor—Ted R. Cooper Co., Inc., Western Pacific Bldg., Los Angeles.

YREKA, Siskiyou Co., Cal.—C. L. Noel, Yreka, awarded contract by Natural Gas Corp. of Calif., to erect structures in connection with gas plant for which distributing system is now being installed.

Sub-Contracts Awarded.

WAREHOUSE Cost, price, \$89,000
SAN FRANCISCO Sansome and Valencien Streets.

Three-story reinforced concrete warehouse.

Owner—Poultry Producers of Central California, 700 Front St.

Architect—H. C. Baumann, 251 Kearny Street.

Contractor—Sommarstrom Bros., 2924 San Pablo Ave., Oakland.

Concrete Materials—Pacific Coast Aggregates, 82 2nd St.

Lumber—Chas. McCormick Lbr. Co., 1401 Army St.

Steel Windows and Doors—Michel & Pfeffer Iron Works, Harrison and Tenth Sts.

Mill Work—Clinton Mill & Lumber Co., 701 4th Ave., Oakland.

Plumbing—S. W. Baud, 191 Valencia.

Electric Work—Baker & Co., 270 6th Street.

Other awards will be made shortly.

BURBANK, Los Angeles Co., Cal.—The United Airport near Burbank plan to erect a new hangar in the new factory similar to the one recently built by the Austin Co. of California, 777 E. Washington St., Los Angeles. The building covered 72,000 square feet of space and cost \$150,000.

Plans Being Prepared.

SHOP Cost, \$—
RICHMOND, Contra Costa Co., Cal. One-story steel frame and brick shop
Owner—Santa Fe Railroad Co.
Architect—Eng. Dept. of Owner (I. C. Blanchard, Chief Engr.), Kerkhoff Bldg., Los Angeles.

Plans Being Figured.

FACTORY Cost, \$70,000
OAKLAND, Alameda Co., Cal. Eighty first Avenue near 14th St.

One-story reinforced-concrete factory. Owner—Blue Bird Potato Chips, Inc., 85th Ave. and Rock Sts., Oakland.

Architect—Charles W. McCall, 1404 Franklin St., Oakland.

OAKLAND, Alameda County, Cal.—Sullivan & Sullivan, 2653 Best Ave., Oakland, at \$2424 awarded contract by City Port Commission, 424 Oakland Bank Bldg., for constructing lean-to addition to Hangar No. 2, at the Oakland Municipal Airport.

Following is a complete list of bids received:

Sullivan & Sullivan, Oakland	.....\$2424
A. Frederick Anderson, Oakland	2428
David Nordstrom, Oakland	2449
Strehlow & La Velle, S. F.	2451
George Swainstrom, Oakland	2453
Niles W. Place, Oakland	2690
H. K. Henderson, Oakland	2970
J. B. Bishop, Oakland	3055

VALLEJO, Solano Co., Cal.—Union Oil Co., will locate a \$75,000 distributing plant on the Vallejo waterfront. Storage tanks, wharf and terminal facilities will be provided.

GARAGES AND SERVICE STATIONS

Planned.
GARAGE Cost, \$—
HOLLISTER, San Benito Co., Cal.
Fireproof garage.
Owner—Gile Tiffany, 325 San Benito Hollister.
Architect—Not Selected.
Proposed project is in a very preliminary stage.

Preliminary Plans Being Prepared.
AUTO AGENCY Cost, \$40,000
SACRAMENTO, Sacramento Co., Cal.
NE 22nd and Y Sts. (129x150-ft.).
One-story Ford automobile agency.
Owners—Ellsworth Harrold, 712 12th St., Sacramento.
Architect—Chas. F. Dean, California State Life Bldg., Sacramento.

Preliminary Estimates Being Taken.
GARAGE Cost, \$20,000
REDWOOD CITY, San Mateo Co., Cal.
Highway.
One-story concrete garage.
Owner—Withheld.
Architect—John McCool, 381 Bush St., San Francisco.

Contract Awarded
STATION Cost, \$7500
SAN FRANCISCO. SE Fell and Octavia Sts.
One-story Class C service station.
Owner—Shell Oil Co., 100 Bush St., San Francisco.
Plans by T. L. Longham, 114 Sansome St., San Francisco.
Contractor—P. Prom, 114 Sansome St., San Francisco.

Plans Complete.
GARAGE Cost, \$15,000
SAN FRANCISCO. Third Street bet. 22nd and 23rd Sts.
One-story and basement reinforced concrete garage and service station (150x50-ft.).
Owner—Samuel Ran, 233 5th St.
Plans by D. K. Dobkowitz, 425 Montgomery Blvd.

GOVERNMENT WORK AND SUPPLIES

Bids To Be Asked In One Week.
REPAIRS Cost, \$1500
SAN FRANCISCO. Fort Miley
Repairs to buildings at Fort Miley (a new foundations, replastering, etc.).
Owner—U. S. Government.
Architect—Constructing Quartermaster, Fort Mason.

Plans Prepared.
OFFICERS' QUARTERS Cost, \$—
SAN FRANCISCO. Presidio.
Eighteen double sets of non-commissioned officers' quarters (each two-story and basement, brick construction).

Owner—U. S. Government.
Plans by Quartermaster General's Office, Washington, D. C.

Plans are being forwarded to the Constructing Quartermaster, Ft. Mason, for approval.

HAWTHORNE, Nev.—American Moninger Greenhouse Manufacturing Co., Brooklyn, N. Y., at \$1,930 submitted low bid to the Bureau of Supplies and Accounts, Navy Department Washington, D. C., for furnishing greenhouse unit to Naval Ammunition Depot at Hawthorne. Next two low bidders: Metropolitan Greenhouse Manufacturing Corp., Brooklyn, N. Y., \$2,162; Lord & Burnham, Chicago, \$2,279. Taken under advisement.

SACRAMENTO, Cal.—Until Jan. 15, 3 P. M., under Order No. 2819, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver:

LOT NO. 1
90 lin. ft. 14 gauge, corrugated galvanized iron culvert pipe, 36-in. dia., to be made up in 3 sections each 30 feet long.

Six 14 gauge, corrugated galvanized iron coupling bands, for 36-in. dia. pipe of Item 1. Each band to be 12½ inches wide, complete with bolts, etc.

LOT NO. 2
Two 8 gauge, black iron pipe, 24 ft. long, lap-welded inside and outside, 18-in. inside dia., fabricated as shown on drawing No. 50-4-1266, less gate.

It is proposed to obtain three 36-in. dia. corrugated galvanized iron pipe culverts, each 30 ft. long, to be made in 30 ft. sections, and have the necessary coupling bands 12½-in. wide, for each end and also two pieces of No. 8 gauge or heavier, black iron drainage pipes. This specification is only for the furnishing and delivering of the material, i. e., h. Miller Station, on the Sacramento Northern Railway. The culvert sections and hands are to be close, double riveted (2 rows of rivets, close riveted) each section of culvert and pipe, and also the bands shall be hot dipped in an approved asphalt dip.

PACIFIC COAST.—Following contracts awarded by Bureau of Yards and Docks, Navy Department, Washington, D. C., in connection with Pacific Coast developments:
Spec. 6905, Pearl Harbor, T. H., refrigerating plant, A. Nekomoto, 1895 S King St., Honolulu, T. H., \$14,398.
Spec. 6298, San Diego, Calif., concrete road pavement, B. G. Carroll, 4336 Maryland St., San Diego, Calif., \$3,178.78.

Spec. 6310, Mare Island, Calif., one 40-ton electric traveling crane and runway, Judson Pacific Co., 609 Mission St., San Francisco, \$75,685, 200 days.

Spec. 6122, San Diego, Calif., improvements to electrical system, Weimer & Peterson, 844 F St., San Diego, Calif., \$48,300.

Spec. 6187, Cavite, P. I., air compressor, Chicago Pneumatic Tool Co., 237 N 12th St., Philadelphia, \$11,433.

Specifications Being Written
CITY, ETC. Available
SAN FRANCISCO. Presidio (National Cemetery).
Granite and bronze gates, urns, etc., at entrance to National Cemetery.
Owner—United States Government.
Architect—Constructing Quartermaster, Fort Mason, San Francisco.
Bids will be advertised for shortly.

SACRAMENTO, Cal.—Until January 14, 3 P. M., under Order No. 2835, bids will be received by U. S. Engineer Office, California Fruit Bldg., for repairs and storage of automobiles. Specifications and further information obtainable from above.

SACRAMENTO, Cal.—Until January 15, 3 P. M., under Order No. 2850-1750, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County:

One Surface Gauge, No. 115 pg. 273, Thomson-Diggs Cat. No. 26, or equal.
One Eitc Brake, 12-in. sweep, No. 813 pg. 197 Thomson-Diggs Cat. No. 26, or equal.

One set Auger Bits No. D. M. pg. 404 Thomson-Diggs Cat. No. 28, or equal.
One Taper Bridge Reamer, 2-inch, Morse Taper Shank No. 696, pg. 18, Marwed Cat. No. 12, or equal.

Three Pipe Wrenches, Stillson or equal, 24-in., solid steel handles.
Two Drills, high speed, 1½-in. with No. 3, Morse Taper shank.

SAN FRANCISCO.—Severin Electric Co., 172 Clara St., at \$6569 submitted lowest bid to Constructing Quartermaster, Ft. Mason, for alterations to electrical feeder system at Letterman General Hospital.

Following is a complete list of bids: Severin Electric Co.\$6,569
H. S. Title Co. 7,024
Broad Electric Co. 7,400
G. H. Armstrong 7,490
(Alternate) 8,440
Weidenthal-Gosliner Elec. Co. 7,597
Globe Electric Co. 8,000
Apex Electric Co. 8,560
Atlas Elec. Co. & Eng. 8,836
Chas. A. Langlais 11,440
Butte Electric & Mfg. Co. 13,900
Butte Electric & Equip. Co. 18,166
Bids held under advisement.

Plans Being Figured—Bids Close Jan. 26, 3 P. M.

FOUNDACTIONS, ETC. Cost, \$—
SEATTLE, Washington.
Foundations, etc., for postoffice.
Owner—U. S. Government.
Architect—Supervising Architect at Treasury Dept., Washington, D. C.
See call for bids under official proposal section in this issue.

EUREKA, Humboldt Co., Cal.—Captain Joseph P. Esler, commanding officer of Company I, 154th Infantry, National Guard, announces that construction of a \$25,000 armory will be started this year. Preliminary plans for a structure 100 by 150 ft., with drill hall, locker rooms, gymnasium quarters, etc.

SAN FRANCISCO.—Until January 13, under Circular No. 15, bids will be received by Contracting Officer, Medical Section, Fort Mason, to furnish and install one set radiographic X-ray machine. Specifications obtainable from above.

SAN DIEGO, Cal.—Until 11 A. M., January 17, bids will be received by the Public Works Department of the Eleventh Naval District, San Diego, for alterations and repairs at the Naval Operating Base (Hospital), San Diego. Specification No. 6373. The work includes: (a) the making of certain structural changes, consisting of the masonry work, plastering, carpentry and joinery, alterations to terrazzo, magnesite and the floors and base and electrical work in connection with the alterations; (b) the furring out and plastering of certain existing damaged plastered walls, including modification of electrical work and magnesite base in connection therewith; and (c) the provision and installation of hard wood guard rails in corridors of first and second floors of ward buildings Nos. 2, 5 and 10. (d) painting and miscellaneous work in connection with the repairs and alterations. Bidding data may be obtained from the Commandant, Eleventh Naval District, San Diego, upon deposit of \$10. Captain DeWitt C. Webb, public works officer.

MARE ISLAND, Cal.—Following is a complete list of bids received by Bureau of Yards and Docks, Navy Department, under Specification 6362, to install the alternator for Mare Island Navy Yard:

Item 1, work, complete; 2, services for erection:

Westinghouse Electric & Mfg. Co., Washington, Item 1, \$44,938.50; 2, \$23. General Electric Co., Schenectady, Item 1, \$45,523; 2, \$25.
Allis-Chalmers Mfg. Co., Milwaukee Wis., Item 1, \$46,000; 2, \$15.

PACIFIC COAST.—Following contracts awarded by Bureau of Yards and Docks in connection with the Pacific Coast improvements:

Spec. 6276, San Diego, Calif., metal aircraft structures shop, Proc. F. Greenfield Co., 1808 7th St., Los Angeles, Calif., Items 1 and 2, \$103,720.

Spec. 6273, Empire Ore., 20,000 gals. water tank and supply system, T. H. Scheuerman, 3765 62nd Ave. S., Seattle, Wash., \$1,574.

Spec. 6267, San Diego, Calif., renewal of insulation of cold storage room, West Coast Gas Engine Co., 312 W. Market St., San Diego, Calif., \$70.

Spec. 6213, Puget Sound, Wash., quarters, naval radio station, McDonald Building Co., 1517 S. Tacoma Way, Tacoma, Wash., \$11,475.

Spec. 6122, San Diego, Calif., improvement of electrical system, Welmer & Peterson, 844 F St., San Diego, Calif., \$48,300.

Spec. 6355, San Diego, Calif., painting 6 hospital buildings, William Gelfand, 218 W. Washington St., Los Angeles, Calif., \$6,965.

HONOLULU, T. H.—Until March 3, under Circular No. 66, bids will be received by Quartermaster, Hawaiian General Depot, for printing equipment, 1 folder machine, 1 Miller platen press feeder. Further information obtainable from above.

Bids Opened.
MESS HALL BLDGS. Cost, \$—
MONTEREY, Monterey Co., Cal. Presidio.

Seven 1-story frame mess hall bldgs. Opened Under Contract No. 1500. Plans by Construction Quartermaster, Presidio, Monterey.
Low Bidder—Newman & Halsted, Pacific Grove.

Following is a complete list of bids: Newman and Halsted, Pacific Grove \$18,778
Hook & Hook, Monterey 18,894
H. Kohlhies, San Francisco 20,131
Miles M. Elder, Burlingame 20,400
Chas. M. Hall, Pacific Grove 20,427
Thermotte Const. Co., San Jose 20,453
Young & Horstmeier, S. F. 20,645
H. W. Riddle, Los Angeles 20,812
T. H. Johanns, San Francisco 20,847
H. D. Coon, Carmel 20,925
T. B. Goodwin, San Francisco 21,225
Geo. Honore, San Jose 21,670
Clinton Stephenson Const. Co., San Francisco 21,961
O. S. Amine, San Francisco 23,259
W. P. Swenson, Pacific Grove 23,700
T. E. Wallstrom, Watsonville 25,916
M. J. Murphy, Carmel 24,588
Albert Nelson, San Francisco 24,645
The Minton Co., Mt. View 24,791
F. Turner, Burlingame 24,833
A. F. Anderson, Oakland 25,571
Carl N. Swensen, San Jose 27,043
Bids held under advisement.

HAWTHORNE, Nevada—Three low bidders previously reported, to erect mine filling plant at Hawthorne, bids opened by Bureau of Yards & Docks, Navy Department, December 26, under Specification 6123. Following is a complete list of bids received:
C. F. Dinmore & Co., Eccles Bldg., Ogden, Utah, \$33,800.
Robt. E. McKee, Central Bldg., Los Angeles, Calif., \$369,000.

Thomas Haverly Co., 216 E. 8th St., Los Angeles, \$380,000.

Miltry Bros. Const. Co., Detweiler Bldg., Los Angeles, Calif., \$387,725.

Harrison-Wright Co., Harrison, N. C., \$393,600.

Earrett & Hilp, 318 Harrison St., San Francisco, \$400,00.

C. Dudley De Velbiss, 369 Pine St., San Francisco, \$415,000.

Schuler & McDonald, Inc., 11323 Webster St., Oakland, Calif., \$423,000.

Newport Contracting & Engineering Co., Lee Hall, Va., \$448,000.

Humphall Bldg. Co., Salt Lake City, Utah, \$661,331.

The work will include two bulk TNT storage buildings, two box opening buildings, two filling houses, two buildings designated as cooling shed and temporary storage buildings, crating and painting building, three drilling buildings, 29 dugouts with barricades, empty mine storage building, concrete and earth barricades about buildings, standard gauge railroad tracks, driveways, roads, walks, etc.

Plans Being Figured—Bids Close Jan. 25th.

BARRACKS & MESS HALL \$200,000
MARE ISLAND Navy Yard, Calif.

Barracks and Mess Hall at Submarine Base (Spec. 6330).

Owner—U. S. Government.

Plans by Bureau of Yards and Docks, Navy Dept., Washington, D. C.

The work includes the construction of a barracks and mess hall building having reinforced concrete walls and slabs; concrete piles; cement mortar finish floors; the floors; marble work; miscellaneous steel and iron work; hollow tile work; wood roof framing and sheathing; clay tile roofing and sheet metal work; metal studing and lathing; plaster and stucco work; artificial stone work; wood doors and windows; hollow metal doors; vault door; refrigeration; plumbing; heating; electrical work, and painting.

Bids will be received by the Bureau of Yards and Docks at Washington. Plans obtainable from Commandant, Mare Island Navy Yard, on deposit of \$25, returnable, checks for same to be made payable to Chief of the Bureau of Yards and Docks.

SACRAMENTO, Cal.—Until January 12, 3 P. M., under Order No. 2837-1750, bids will be received by U. S. Engineering Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County: 7500 lbs. welding rods, 3/4-in. by 14-in. long, in 50 lb. bundles. Further information obtainable from above.

Plans Being Figured—Bids Close Feb. 2.

QUARTERS Cost, \$—
FORT SHAFTER, T. H. Wheeler

Schofield Barracks. Quarters for married and bachelor officers, including all grading and utilities.

Owner—U. S. Government.

Plans by Department Quartermaster, Construction Division, Ft. Shafter, Honolulu, T. H.

Plans obtainable from Department Quartermaster on deposit of \$100, returnable.

SACRAMENTO, Cal.—Until January 13, 3 P. M., under Order No. 2836-78, bids will be received by U. S. Engineering Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano county, and Stockton, Calif.:

1000 ft. wire rope, Seales construction, uncoated regular lay, plow steel, 3/4" dia., hemp center, 6 strands, 19 wires to the strand. This rope shall be in one piece, on an individual reel.

1500 ft. wire rope, galvanized, regular lay, Seales construction, 3/4" dia. plow steel, hemp center, 8 strands, 19 wires to strand. Min. breaking strength 8000 lbs. This rope shall be

in one piece, on an individual reel. The rope of item 1 to be furnished shall be uncoated and that of item 2 shall be coated or galvanized. They shall be regular right lay and constructed with a hemp core or center.

Low Bidders.
FOUNDATION WORK Cost, \$—
OAKLAND, Alameda Co., Calif.

Foundation work in connection with proposed post office.

Owner—U. S. Government.

Plans by Supervising Architect, Treasury Dept., Washington, D. C.

Low Bidder—Geo. Petersen, San Leandro, \$33,800.

Next lowest bid was submitted by R. W. Littlefield, Oakland, at \$43,000. Complete list of bids will be published shortly.

DENVER, Colo.—Until 2 P. M., Jan. 16, bids will be received by the U. S. Bureau of Reclamation, 1441 Welton St., Denver, Colo., for furnishing equipment as follows:

(1a) (Alternative to item 1b). Structural steel 60 foot by 12 foot spilly ring gate, with leveling device, seal seats and other appurtenances (except spring brass seals) complete.

(1b) (Alternative to Item 1b). Structural steel 60 foot by 12 foot spilly ring gate, with leveling device, seal seats and other appurtenances (except spring brass seals) complete.

Prompt delivery of materials is important and delivery is desired within 63 calendar days after receipt of notice of award. All bids specifying delivery within said number of days will be considered on an equal basis as regards time of delivery. Where the time of delivery specified by the bidder is greater than the said number of days, each day in excess thereof will be evaluated at \$25 and bids will be compared on this basis for award of contract. Spec. No. 439-18.

Plans Being Figured—Bids Close Feb. 18.

HANGAR Cost, \$—
PEARL HARBOR, T. H. Naval Oper-

ating Air Station.

Seaplane Hangar (Spec. No. 6215).

Owner—U. S. Government.

Plans by Bureau of Yards and Docks, Navy Dept., Washington, D. C.

The work includes earthwork, concrete piling and foundations, concrete block partitions, steel and iron work, steel windows, roofing, siding and sheet metal work, metal covered doors, timber work, glazing and painting. Plans obtainable from Bureau and from Commandant, Naval Operating Base, Pearl Harbor, T. H.

PHOENIX, Ariz.—See "Machinery and Equipment," this issue. Bids wanted by U. S. Indian School to furnish concrete mixer.

HAWTHORNE, Nev.—C. F. Dinmore, Ogden, Utah, at \$33,800 awarded contract by Bureau of Yards and Docks, Washington, D. C., for a mine filling plant to be erected at the naval ammunition depot at Hawthorne, Nevada. The work will include two bulk TNT storage buildings, two box opening buildings, two filling houses, two buildings designated as cooling shed and temporary storage buildings, crating and painting building, three drilling buildings, 29 dugouts with barricades, empty mine storage building, concrete and earth barricades about buildings, standard gauge railroad tracks, driveways, roads, walks, etc.

PEARL HARBOR, T. H.—Following is a partial list of prospective bidders to construct seaplane hangar at Pearl Harbor, T. H., for which will be opened by the Bureau of Yards and Docks, Navy Department, Washing-

ton, D. C., in February, under Specification No. 6215:
 Crane Company, Washington.
 Bethlehem Fabricators, Inc., Bethlehem, Pa.
 Newport Contracting & Engineering Co., Lee Hall, Va.
 Frank M. Weaver & Co., Inc., Lansdale, Pa.
 Mesker Bros. Iron Co., 421 S 6th St., St. Louis.
 Pittsburgh-DesMoines Steel Co., Neville Island P. O., Pittsburgh.
 Truscon Steel Co., Hill Bldg., Washington.

Bids Opened.
FOUNDATION WORK Cost, \$—
OAKLAND, Alameda Co., Calif.
 Foundation work in connection with proposed new postoffice.
 Owner—U. S. Government.
 Plans by Supervising Architect, Treasury Dept., Washington, D. C.
 Low Bidder—Geo. Petersen, San Leandro.

Following is a complete list of bids:
 Geo. Petersen, San Leandro, 338,450
 Schuler & McDonald, Oakland, 39,421
 R. W. Littlefield, Oakland, 43,565
 Barrett & Hilp, San Francisco, 44,990
 K. E. Parker, San Francisco, 45,000
 E. T. Lesure, Oakland, 45,563
 M. R. McGowan, San Francisco, 46,987
 W. C. Keating, Oakland, 47,764
 David Nordstrom, Oakland, 47,980
 W. H. Hanser, Oakland, 48,738
 S. Rasori, San Francisco, 49,832
 W. G. Thornaby, Oakland, 49,960
 Ralph McLeran, San Francisco, 54,000
 MacDonald & Kahn, S. F., 55,491
 H. J. Christensen, Oakland, 57,323
 A. M. Lundberg, St. Louis, 60,969
 Bids held under advisement.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco:
Bids Open Jan. 20

Mare Island, 1 motor driven angle, rolling, forming and curving machine; sch. 4842.
 Mare Island, 5 electric warming ovens; sch. 4839.
 San Francisco, 1 motor driven hand planer and pointer; sch. 4836.
 Mare Island, 1 motor driven milling machine; sch. 4835.
 Western yards, radio direction finders and spares; sch. 4826.
 Mare Island and Puget Sound, boiler safety valves and spare parts; sch. 4825.
 Western yards, gauges, planes and squares; sch. 4838.
 Mare Island, 4 motor driven brass turret lathes; sch. 4845.
 Mare Island, 1 electric muffle furnace, 1 heating unit and 1 indicating pyrometer; sch. 4846.
 Mare Island, 57,000 lbs. rivet steel; sch. 4856.
 San Francisco, 1 motor driven automatic cutoff saw; sch. 4849.
 Mare Island, 1 motor driven vertical shaper; sch. 4857.
 Mare Island, 1 motor driven turret lathe; sch. 4834.
 Puget Sound, 1 motor driven milling machine, with attachments; sch. 4853.
 Mare Island, 1 motor driven power press; sch. 4843.
 Mare Island, 1 motor driven milling machine; sch. 4844.
 Mare Island, 1400 lbs. naval rolled brass; Mare Island, 5600 lbs. phosphor bronze and 5200 pounds sheet copper; sch. 4868.
 Mare Island, 18 chrometric tachometers, and Puget Sound, 7 do; sch. 4875.
 Mare Island, 1 motor driven milling machine; sch. 4871.
 Mare Island, 130 gals. glycerine; sch. 4877.

Bids Open Jan. 27

San Francisco, 1 air conditioning system; sch. 4859.
 San Diego, 1 paint spray outfit; sch. 4867.

POMONA, Cal.—Following is a partial list of prospective bidders to erect post office at Pomona, bids for which will be opened by the Supervising Architect, Treasury Department, Washington, D. C., January 28:
 William Rohrbacker, Builders' Exchange, Santa Ana, Calif.
 Wm. MacDonald Const. Co., Syndicate Trust Bldg., St. Louis.
 George Griffiths Const. Co., Arcade Bldg., St. Louis.
 A. M. Lundberg, Railway Exchange Bldg., St. Louis.

MARE ISLAND, Calif.—Following is a partial list of prospective bidders to erect barracks and mess hall at Mare Island Navy Yard, bids for which will be opened January 28 by the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6530:
 W. P. Winston Co., Inc., Box 2089, Richmond, Va.
 James L. McLaughlin Co., 251 Kearny St., San Francisco.
 Wm. MacDonald Const. Co., Syndicate Trust Bldg., St. Louis.
 George Griffiths Const. Co., Arcade Bldg., St. Louis.
 Crane Company, Washington.

HALLS AND SOCIETY BUILDINGS

Contract Awarded. **January 2, 1931**
ADDITION Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.
 Naglee Tract.
 One-story concrete, plaster and stucco addition to building (right wing addition).
 Owner—Rosierucian Order, Naglee.
 Architect—Eng. Dept. of Owner.
 Contractor—Paul Anderson, 1210 Lincoln St., San Jose.
 (421) 16
CORNING, Tehama Co., Cal.—Mt. Lassen Post, American Legion, has petitioned the county supervisors to proceed with construction of the proposed Corning Veterans' Memorial Building, for which the county has \$25,000 available. Plans have been prepared by Architects Starks and Flanders, Forum Bldg., Sacramento. It is expected that a similar petition will be presented to the county by members of Balsner Post, American Legion, at Corning.

HOSPITALS

Plans Being Figured—Bids Close Jan. 27, 2 P. M.
WARD UNIT Cost, \$—
AGNEW'S, Santa Clara Co., Cal. State Hospital Grounds.
 Two-story reinforced concrete Ward Unit—No. 2 (floor area 70,000 sq. ft.)
 Owner—State of California.
 Architect—State Department of Public Works, Division of Architecture, George E. McDougall, State Architect, Public Works Building, Sacramento.
 Will have the partitions, wood roof construction and the roof similar to first unit now in course of construction.
 Separate bids will be entertained as follows:
 1. General Work.
 2. Electrical Work.
 3. Plumbing, Heating and Ventilation Work.
 4. Complete Mechanical including Plumbing, Heating, Ventilating, and Electrical Work.
 The "General Work" bid will embrace all branches of work other than segregated above.

Plans Being Prepared.
ADDITION Cost, \$200,000
PORTLAND, Oregon.
 Reinforced concrete wing addition to hospital; brick and cast stone exterior; 50-bed capacity in addition to laboratories, surgeries and service rooms.
 Owner—Emanuel Hospital.
 Architect—Sutton & Whitney, Lewis Bldg., Portland.

SAN FRANCISCO—Until January 13, under Circular No. 15, bids will be received by Contracting Officer, Medical Section, Fort Mason, to furnish and install one set radiographic X-ray machine. Specifications obtainable from above.

Prospective Bidders.
HEALTH CENTER Approx. \$10,000
SAN LEANDRO, Alameda Co., Cal.
 One-story frame and stucco health center.
 Owner—City of San Leandro.
 Architect—James Narbett, 466 31st St. Richmond.
 Following contractors have secured plans:
 C. A. Gossett, 327 Davis Court, Oakland.
 A. S. Maria, 2229 Washington St., Oakland.
 L. R. Martin, 219 Arroyo, Oakland.
 P. J. Haven, San Leandro, Oakland.
 U. B. Lee, 888 Rodney, Oakland.
 Bids will be opened Jan. 21, 8 P. M.

RIVERSIDE COUNTY, Cal.—State director of institutions announces the purchase of 1660 acres of land seven miles west of Arlington, in Riverside county, as a site for the new Southern California state hospital for the insane. Construction of the new institution will be upon the unit plan, similar to the farm colony buildings at Agnew. Eventually there will be eight units, housing 400 patients each. In addition to the service buildings are employees' quarters. Approximately \$370,000 available for erection of first units. Plans will be prepared by State Architect George E. McDougall, Public Works Bldg., Sacramento.

YOUNTVILLE, Napa Co., Cal.—R. C. Meyer Corp., 900 Magn St., Los Angeles, at \$11,530 submitted lowest bid to State Department of Architecture for furnishing and installing boiler at the Veteran's Home, Yountville. Following is a complete list of the bids received:
 R. C. Meyer Corp., L. A., \$11,930
 W. E. Leland, S. F., 12,184
 C. U. Martin, S. F., 13,311
 Dorwood Eng. Co., S. F., 13,320
 Bids under advisement.

SAN FRANCISCO—City Purchasing Agent Leonard S. Leavy, 270 City Hall, accepts bids received November 10, under Proposal No. 649, to furnish and install lighting fixtures in Ward Building F at the Laguna Honda Home.

LOS ANGELES, Cal.—W. Calvin Murdock and associates, 2510 S. Central Ave., have purchased 96 acres of land in Little Tujunga Canyon as a site for a sanitarium. No definite time has been set for starting work on the project.

Bids Opened.
KITCHEN, ETC. Cost, \$—
BERKELEY, Alameda Co., Cal.
 One-story reinforced concrete kitchen and commissary building and two-story reinforced concrete boys' and girls' dormitory.
 Owner—State of California.
 Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Building, Sacramento.

Kitchen and dormitory building will have the partitions, steel and wood roof construction and the roof; total floor area 14,000 sq. ft.

Boys' and girls' dormitory will have the partitions, wood roof construction and the roof; total floor area 12,700 sq. ft.

Following is a complete list of bids: Alt. No. 1, add for addition of bakery; Alt. No. 2 add for addition of arcade; Alt. No. 3, deduct for omission of elevator.

General Work

- Porsensen & Hingmark, 2652 Harrison St., San Francisco, \$154,000; (1) \$400; (2) \$4270; (3) \$4200.
- Monson Bros., San Francisco, \$164,940; (1) \$4300; (2) \$3500; (3) \$4250.
- E. T. Lesure, Oakland, \$168,840; (1) \$4300; (2) \$4600; (3) \$4250.
- Carl N. Swenson, San Jose, \$169,650; (1) \$4742; (2) \$3965; (3) \$4147.
- H. L. Petersen, San Francisco, \$171,643; (1) \$4986; (2) \$5685; (3) \$4000.
- David Nordstrom, Oakland, \$176,024; (1) \$4988; (2) \$4603; (3) \$4247.
- Geo. J. Maurer, Oakland, \$176,839; (1) \$3850; (2) \$3850; (3) \$4450.
- H. Mayson, Long Beach, \$179,000; (1) \$4843; (2) \$5200; (3) \$4400.
- F. L. Amaroso & Sons, S. F., \$188,670; (1) \$4600; (2) \$5200; (3) \$4000.
- E. T. Leiter & Son, Oakland, \$189,500; (1) \$7200; (2) \$6000; (3) \$4360.
- Leibert & Trobeck, S. F., \$194,822; (1) \$5715; (2) \$4817; (3) \$5588.
- Pumping, Heating and Ventilating
- Geo. A. Schuster, 3712 Grove St., Oakland, \$34,968; (1) \$738; (2) \$85.
- Geo. C. Bell, Oakland, \$36,690; (1) \$650; (2) \$200.
- W. H. Picard, Oakland, \$36,940; (1) \$606; (2) \$194.
- Scott Co., Oakland, \$37,600; (1) \$588; (2) \$81.
- Carl T. Doell, Oakland, \$39,923; (1) \$616; (2) \$194.
- Herman Lawson, San Francisco, \$42,987; (1) \$823; (2) \$280.

Electrical Work

- George Woolf, 735 Alcatraz, Oakland \$7800; (1) \$195; (2) \$197.
- T. L. Benzberg Co., Oakland, \$8199; (1) \$125; (2) \$196.
- Eddy Electric Co., S. F., \$8320; (1) \$280; (2) \$70.
- H. S. Tittle Co., S. F., \$8662; (1) \$125; (2) \$183.
- Dexley Elec. Co., S. F., \$9710; (1) \$254; (2) \$180.

Bids held under advisement.

HOTELS

Segregated Bids Being Taken.
HOTEL Cost, \$250,000
 SAN FRANCISCO. Pine St. between Powell and Stockton Sts.
 Sixteen-story steel frame and concrete hotel.
 Owner—Sheldrake Hotel Co.
 Architect—H. C. Baumann, 251 Kearny Street.
 As previously reported, structural steel awarded to Johnson Pacific Co., 609 Mission St.; excavation to L. Devenenzi, 148 Blake St.

ICE AND COLD STORAGE PLANTS

OLIVE, Orange Co., Calif.—Olive Heights Citrus Assn., Pep. H. Cole, manager. Olive, is having plans prepared for a precooling plant to be erected north of its packing house in Olive. Bids will be taken early in January. It will be a reinforced concrete structure with a capacity for icing an storing 83 cars, and will cost about \$75,000. Ice manufacturing equipment may be installed in the building.

BERKELEY, Alameda Co., Cal.—Cork Insulation Co., Inc., 354 Pine St., San Francisco, at \$1715 submitted lowest bid to the Regents of the University of California for refrigeration and

air conditioning room in the Engineering laboratory on the campus of the University of California.

- Following is a complete list of bids received:
 - Cork Insulation Co., S. F., \$1715
 - Coast Refrigeration Co., S. F., 7619
 - Van Fleet Prepar Co., S. F., 7724
 - Mundet & Son, Inc., 7865
 - York Ice Refrigeration Co., S. F. \$1857
- Bids held under advisement.

POWER PLANTS

Harold Cron, clerk.
 BRAWLEY, Imperial Co., Cal.—Until 8 P. M., January 12, bids will be received by the Mulberry school district for furnishing on automatic lighting plant, 110-volt, 1500-kilowatt.

MONTEREY, Monterey Co., Cal.—Construction has been started by the Pacific Gas and Electric Co. on a 10-kilowatt sub-station in East Monterey, at Casanova St. and the Castroville Highway.

Bids Opened
POWER HOUSE Cost, \$44,000
 SAN FRANCISCO. Third Avenue and Parnassus Street.
 One-story steel frame and concrete power house.

- Owner—University of California.
- Architect—W. C. Hays, Crocker Inst Nat'l Bank Bldg.
- Following is a complete list of bids: J. S. Hannah, 268 Market St., \$32,990; 120 days.
- F. J. Reilly, San Francisco, \$22,444; 120 days.
- Barrett & Hill, San Francisco, \$24,787; 110 days.
- Wm. Spivock, San Francisco, \$25,900; 120 days.
- Jacks & Irvine, San Francisco, \$26,000; 90 days.
- Sullivan & Sullivan, Oakland, \$26,262; 120 days.
- E. T. Lesure, Oakland, \$26,424; 120 days.
- Nelson, San Francisco, \$26,620; 150 days.
- N. H. Sjoberg & Sons, San Francisco, \$27,445; 120 days.
- Walden Bros., San Francisco, \$27,900; 120 days.
- Vogt & Davidson, San Francisco, \$2,900; 120 days.
- Clinton Stephens Const. Co., San Francisco, \$28,487; 110 days.
- J. W. Colby & Son, San Francisco, \$28,576; 110 days.
- Reavey & Spivock, San Francisco, \$28,600; 150 days.
- Ralph McLeran & Son, San Francisco, \$29,363; 90 days.

Bids held under advisement.
 Eugene, Oregon.—Hargreaves and Lindsay at \$24,312 awarded contract by C. A. McClain, superintendent of city water system, to construct power house and service tanks for steam auxiliary plant of Municipal Water System. Guy F. Pyle, next low at \$27,269.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

SALINAS, Monterey Co., Calif.—County supervisors contemplate remodeling of attic in courthouse for quarters for the county law library. The library is at present housed in the basement of the courthouse.

- Contract Awarded.
- JAIL UNIT Cost, \$1835
- PLEASANTON, Alameda Co., Cal. Steel frame jail unit (3 cells) (accommodate 6 prisoners).
- Owner—City of Pleasanton (Crawford Letham, city clerk).
- Contractor—Van Dorn Steel Co.
- Contract awarded at \$1700 f. o. b. Seattle, adding \$135 for installation.

SOUTHERN CALIFORNIA—State Architect George B. McDougall, Public Works Bldg., Sacramento, furnishes the following information regarding state buildings to be erected in Southern California this year:

Pacific Colony—Hospital, administration building and girls' industrial building to cost \$134,000 will be ready for bids January 16. Ward building to cost \$45,000 will be ready for bids April 1. Dairy building to cost \$15,000 will probably be ready for bids April 1.

California Institution for Women, near Tehachapi—Three cottages, administration building and mechanical services to cost \$24,000 will be ready for bids January 22. Cottage for inmates to cost \$53,000 will be ready for bids January 30.

Santa Barbara State Teachers' College—Science and Art building to cost \$110,000 will be ready for bids April 1. San Luis Obispo—Division of highways office building to cost \$43,000 will be advertised upon receipt of instructions from the division of highways.

Whittier State School—Employees' cottage to cost \$8500 will be ready for bids February 1.

New State Insane Hospital, near Arlington—First Unit for patients to cost \$320,000 will be ready for bids January 9. Second unit for patients to cost \$320,000 will be ready for bids January 23.

Norwalk State Hospital—Employees' quarters to cost \$68,000 will be ready for bids January 16.

Paton State Hospital—Unit for infirm patients to cost \$45,000 will be started during January, work to be done by day labor. Additions to infirmary for females to cost \$50,000 will be started during February, work to be done by day labor.

Foundation Bids Wanted—To Be Opened Jan. 20, 11 A. M.

OPERA HOUSE Cost, \$2,500,000
 SAN FRANCISCO. Block bounded by Van Ness Ave., Franklin, Grove and Fulton Sts.

Six-story Class A opera house, seating capacity 4000; standing room 500. Owner—City and County of San Francisco (S. F. War Memorial).
 Architect—G. A. Lansburgh, 140 Montgomery St., and Arthur Brown, 251 Kearny St., San Francisco

Manager of Constr.—Lindgren & Swinerton, 225 Eush St., S. F.
 See call for bids under official proposal section in this issue.

Plans Being Completed.

LIBRARY Cost, \$8000
 OILDALE, Kern Co., Cal. One-story brick or concrete library. Owner—Standard School District.
 Architect—E. J. Symmes, Habersfield Bldg., Bakersfield.

OAKLAND, Cal.—City Board of Library Directors has requested the city council to provide \$10,000 to finance cleaning and painting the main public library and branches. Work will include varnishing book stacks, installation of new racks, etc.

Foundation Bids Wanted—To Be Opened Jan. 20, 11 A. M.

LEGION BLDG Cost, \$2,500,000
 SAN FRANCISCO. Civic Center. Four-story and basement concrete

Class A Legion Building.
 Owner—City and County of San Francisco (S. F. War Memorial).
 Architect—G. A. Lansburgh, 140 Montgomery St., and Arthur Brown, 251 Kearny St., San Francisco.
 A. Wagstaff, 451 Montgomery St., is in charge of the memorial drafting rooms.

See call for bids under official proposal section in this issue.

General Contract Awarded.
AUDITORIUM Cont. Price, \$704,850
PASADENA, Los Angeles Co., Cal.
 Class A reinforced concrete municipal auditorium (tile and composition roofing, steel and wood sash) (seating capacity 3000).
 Owner—City of Pasadena.
 Architects—Edwin Bergstrom, 1129 Citizens National Bank Bldg., Los Angeles, and Bennett & Haskell, 311 First Trust Bldg., Pasadena.
 Contractor—William C. Crowell, 495 S. Broadway, Pasadena.

Other low bids held under advisement as follows:
Coony & Winterbottom, 2425 Hunter St., Los Angeles, heating and ventilating, at \$54,855.
R. R. Jones Electric Co., 1124 Fair Oaks St., South Pasadena, electric wiring, at \$46,445.
P. B. Jones, 621 N. Hollister St., Pasadena, plumbing, at \$25,564.
Peabody Seating Co., 631 S. Spring St., Los Angeles, seats, at \$23,302.08.
Beckwith Elevators, Ltd., 1339 Santa Fe St., Los Angeles, elevators, at \$7029.
D. Zelinsky & Sons, Inc., 687 Antonio St., Los Angeles, painting, at \$6786.
 Chair bids were rejected.

Contract To Be Awarded.
FIRE HOUSE Cont. Price, \$6952
CORTE MADERA, Marin Co., Cal.
 NE First and Willows Sts.
 One-story frame and stucco fire house with tile roof (47x61 ft.) Spanish type (heating plant).
 Owner—Corte Madera Fire Dept., Inc., Corte Madera.
 Plans by J. C. Oglesby, Freitas Bldg., San Rafael.
 Contractor—William Wegner, 225 Monte Vista Ave., Larkspur.

SOUTHERN CALIFORNIA—State department of public works announces that plans will be ready for contractors within the next thirty days for the following state building projects:
First unit of the new Southern California State Hospital for the Insane, near Arlington, cost \$320,000; new women's prison near Tehachapi, cost \$324,000; second unit at Agnew State Hospital, cost \$220,000; hospital, administration and girls' industrial buildings at Pacific Colony, cost \$134,000; employees' quarters and physician's residence at Norwalk State Hospital, cost \$76,000.

January 3, 1931
 Preparing Working Drawings.
CITY HALL Cost, \$450,000
BEVERLY HILLS, Los Angeles Co.
 One and two-story reinforced concrete city hall and fire station.
 Owner—City of Beverly Hills.
 Architect—Koerner & Gage, 468 North Camden Drive, Beverly Hills.

January 6, 1931
 Contract Awarded.
COURTHOUSE Cost, \$7000
SAN JOSE, Santa Clara Co., Cal.
 Install elevator in courthouse.
 Owner—County of Santa Clara, Henry A Pfister, County Clerk, San Jose.
 Architect—Binder & Curtis, 35 W Saa Carlos St., San Jose.
 Contractor—Otis Elevator Co., 1 Beach St., San Francisco.

Following is a complete list of bids received:
 Otis Elevator Co., S. F. \$3773
 Thermotite Constr. Co., San Jose 4121
 Spencer Elevator Co., S. F. 4125
 George Honore, San Jose 4198
 R. O. Summers, San Jose 4378

MERCED, Merced Co., Cal.—W. E. Landrum, local businessman, heads a group advocating the erection of a Hall of Records Building to house county offices and for storage of county records. It is probable that the

matter will be officially considered by the supervisors at their January meeting.

RESIDENCES

Contract Awarded.
RESIDENCE Cont. price, \$7,398.50
PALO ALTO, Santa Clara Co., Calif.
 Hamilton Avenue.
 Two-story frame and stucco residence with tile roof (6 rooms, 2 baths).
 Owner—E. H. Helm, 415 University Ave., Palo Alto.
 Plans by E. Reichel, 303 University Ave., Palo Alto.
 Contractor—John Hansen, 253 Fulton St., Palo Alto.

Sub-Contracts Awarded.
RESIDENCE Cost, \$30,000
OAKLAND, Alameda Co., Cal. 10924 Foothill Blvd.
 Two-story and basement frame and stucco residence (11 rooms).
 Owner—Lloyd Dinkelspiel, 2500 Broadway, San Francisco.
 Architect—J. H. Mitchell, 369 Pine St., San Francisco.

Contractor—A. F. and C. W. Mattock, 212 Clara St., San Francisco.
Mill Work—Lannom Bros. Mfg. Co., 5th and Magnolia Sts., Oakland
Electric Work—Kenyon Electric Co., 526 13th St., Oakland.
Sheet Metal—Metals Mfg. Co., Ltd., 912 Howard St., San Francisco.
Plumbing—Scott Co., 113 10th Street, Oakland.
Lumber—Sunset Lumber Co., 400 High St., Oakland.

Sub-Figures Being Taken.
RESIDENCE Cost, \$7000
OAKLAND, Alameda Co., Cal. West Proctor Ave. bet. Julia and Modoc.
 Two-story frame and stucco residence (6 rooms).
 Owner and Builder—W. A. Netherby, 3853 Lyman Road, Oakland.
 Architect—Not Given.

Bids Wanted
RESIDENCE Cost, \$10,000
SANTA CRUZ, Santa Cruz Co., Cal.
 Two-story and basement frame and stucco residence (8 rooms).
 Owner—H. E. Murray, Santa Cruz.
 Plans by Russell Coleman, 1404 Broadway, Burlingame.

Sub-Figures Being Taken.
RESIDENCE Cost, \$5500
OAKLAND, Alameda Co., Cal. 1520 Havenscourt Blvd.
 One-story and basement frame and stucco residence (5 rooms and garage).

Owner and Builder—F. W. Conlogue, 2607 64th Ave., Oakland.
 Architect—Not Given.

Plans Being Completed.
RESIDENCE Cost, \$—
SAN FRANCISCO, St. Francis Woods.
 Two-story and basement frame and stucco residence (9 rooms).
 Owner—Dr. S. J. Hunkin, 1155 Bush Street.
 Architect—Henry H. Gutterson, 526 Powell St.

Sub-Bids Being Taken.
RESIDENCE Cost, \$7500
MILLBRAE HIGHLANDS, San Mateo Co., Cal.
 One-story and basement frame and stucco residence (5 rooms)
 Owner and Builder—A. N. Arneson, 195 Lowell St., San Francisco.
 Architect—Chas. Strothoff, 2774 15th St., San Francisco.

Sub-Figures Being Taken.
RESIDENCES Cost each, \$6000
SAN FRANCISCO, E 19th Avenue S
 Lawton St.
 Two 1-story and basement frame and stucco residences.
 Owner and Builder—A. Halsen, 2427 25th Avenue.
 Architect—Not Given.

Sub-Figures Being Taken.
RESIDENCE Cost, \$7500
MILLBRAE HIGHLANDS, San Mateo Co., Cal.
 Two-story frame and stucco residence
 Owner and Builder—E. J. Hargrave, 1106 Laguna, Burlingame.
 Architect—Wolfe and Higgins, Realty Bldg., San Jose.
Lumber—Burlingame Lbr. Co., Burlingame.

Preparing Preliminary Working Drawings.
RESIDENCE Cost approx. \$40,000
MONTEREY, Monterey Co., Cal.
 Two-story and basement frame and stucco residence (12 rooms).
 Owner—Withead.
 Architect—Williams and Wastell, 374 17th St., Oakland.

Bids Opened—Held Under Advisement
RESIDENCE Cost approx. \$20,000
SANTA CRUZ, Santa Cruz Co., Cal.
 Two-story and basement frame and stucco residence.
 Owner—Dr. Percy Phillips, 256 Walnut St., Santa Cruz.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.
 Announcement will be made in a few days.

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RESIDENCE Cost, \$5000
STOCKTON, San Joaquin Co., Cal.
One-story and basement brick veneer residence with wood shingle roof (6 rooms).

Owner and Builder—J. R. Leighton, 813 Bedford Road, Stockton.
Architect—Victor Galbraith, Elks Bldg., Stockton.
Hot air furnace, two-car garage.

Plans Being Prepared.

RESIDENCE Cost, \$7500
BERKELEY, Alameda Co., Calif. 706 Hillside Avenue.

1½-story and basement frame and stucco residence (6 rooms; English type).

Owner—S. C. Couper, Berkeley.

Plans by Mr. Walker.
Contractor—J. M. Walker, 1709 Grove St., Berkeley.

Wood panel walls, shingle roof, gas furnace, concrete double garage.

Plans Being Prepared.

RESIDENCE Cost, \$7500
BERKELEY, Alameda Co., Cal. Norwood Avenue.

One-story and basement frame and stucco residence (5 rooms).

Owner—Withheld.

Architect—Hardman & Russ, Berkeley Park Bldg., Berkeley.

BEDDING, Shasta Co., Cal.—W. H. Curtis, formerly of Oakland, has been granted a building permit by the city council to erect a \$10,000 auto court at Lincoln and Pine Sts. The court will consist of 12 duplex buildings and will be operated in connection with the service station at that location.

Contract Awarded

RESIDENCE Cost, \$12,500
SACRAMENTO, Sacramento Co., Cal. No. 1508 Thirty-seventh Street.

Two-story and basement frame and stucco residence (9 rooms).

Owner—Ralph E. Fellows, 2115 I St., Sacramento.

Architect—Not Given.

Contractor—N. H. Lund, 3300 Cutter St., Sacramento.

SCHOOLS

Preparing Preliminary Plans.

SCHOOL Cost, \$135,000
SAN FRANCISCO, Connecticut Street bet. 19th and 20th Sts. (Matt I. Sullivan Elementary School).

Owner—City and County of San Francisco, S. J. Hester, Secretary, Board of Public Works.

Architect—G. A. Applegarth, Claus Spreckels Bldg., San Francisco.

This structure will contain 11 standard classrooms, 1 kindergarten, 1 assembly hall and lunch room with kitchen, teachers' office, clinic and waiting room, storage rooms, two lavatories, etc.

Sub-Contracts Awarded.

SCHOOL Cost, Price, \$29,999
UPPER LAKE, Lake Co., Cal.

One-story reinforced concrete high school (five classrooms and auditorium).

Owner—Upper Lake Grammar School District.

Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.

Contractor—Petaluma Constr. Co., Petaluma.

Concrete—General Contractor, Lumber—Willits Lumber Co., Willits and Upper Lake.

Milwork—A. F. Stevens Lumber Co., Healdsburg and Lakeport.

Reinforcing Steel—Concrete Eng. Co., 1280 Indiana St., San Francisco.

Plumbing—Roy Kynock, Petaluma.

Sheet Metal—E. F. Shell, Petaluma.

Painting—H. Kruger, Santa Rosa.

Roofing—H. C. Gladrow, Santa Rosa.

Electrical and Heating—Lake County Electric Co., Lakeport.

Glass and Glazing—W. P. Fuller & Co., San Francisco.

Blackboards—C. F. Weber Co., San Francisco.

Steel Sash—Michel & Pfeffer, San Francisco.

Linoleum and Shades—R. E. Ellison, Petaluma.

Preparing Plans.

SCHOOL Cost, \$100,000
ALHAMBRA, Los Angeles Co., Cal. Emory Park Grammar School Site.

Two-story and basement masonry school (3 classrooms, library, cafeteria, etc.).

Owner—Alhambra City School District

Architect—Richard C. Farrell, 11 S. Second St., Alhambra.

Bids will be called for about Feb. 2.

Plans Being Figured.

GYMNASIUM, ETC. Cost, \$—
MONTEREY, Monterey Co., Cal.

One-story reinforced concrete academic building with tile roof.

Owner—Monterey Union High School District.

Architect—Swartz & Ryland, Spazier Bldg., Monterey.

Bids will be taken in two or three weeks.

SAN JOSE, Santa Clara Co., Cal.—Board of Education, Walter Bachrodt, Secretary, is inspecting samples of school equipment comprising library furniture, school furniture, electric fixtures, sprinkler systems and lockers for new school buildings in anticipation of purchasing \$12,000 worth of such equipment.

Prospective Bidders.

GYMNASIUM Cost, \$50,000
KENTFIELD, Marin Co., Cal.

Gymnasium (wood frame, roof trusses over gymnasium proper carried on steel columns) planting lawns and shrubbery, etc., at college grounds

Owner—Marin Junior College District.

Architect—A. A. Cantin, 544 Market St., San Francisco.

Following contractors have secured plans.

Chas. Vezey & Sons, 3220 Sacramento St., Oakland.

Sullivan & Sullivan, 2655 Best Ave., Oakland.

F. Leibert & Trobeck, Rialto Bldg., S. F.

The Minton Co., Mountain View.

Young & Horstmeyer, 461 Market St., San Francisco.

J. W. Cobby & Son, 260 Tehama St., San Francisco.

Wallace Snelgrove, Richmond, Gaubert Bros., 4735 Brookdale Ave., Oakland.

Carl Nelson, 1421 E Channel Street, Stockton.

Siemer & Kendall, San Anselmo.

Wm. Dwyer, San Rafael.

O. H. Smith, San Rafael.

Ed. Jackson, San Rafael.

Enigh McLeran, Hearst Bldg., San Francisco.

Wm. Spivock, Hobart Bldg., S. F.

F. Lamb, Vallejo.

F. H. Field, 135 Madrone Ave., San Francisco.

Jacks & Irvine, 74 New Montgomery St., San Francisco.

Clinton Stephenson Const. Co., Monadnock Bldg., San Francisco.

Jas. L. McLaughlin, 251 Kearny St., San Francisco.

A. Nelson, 242 Ocean Ave., S. F.

J. S. Hannah, 268 Market St., San Francisco.

Bids are to be opened Jan. 15, 8 P. M.

Preparing Working Drawings.

ADDITION Cost, \$75,000
MADERA, Madera Co., Cal

Class C brick addition to high school

Owner—Madera Union High School District.

Architect—Davis-Pearce Co., Grant and Weber Sts., Stockton.

Plans will be ready for bids in about 45 days.

OAKLAND, Cal.—Lee J. Immel, 1031 Evelyn St., Oakland, at \$5648 awarded

contract by Board of Education, 104 Administration Bldg., 1025 Second

Avenue, to construct Maxwell Park School retaining wall, steps and grading

at NE corner of Fleming and Monticello Aves.

SAN FRANCISCO.—Lacking a quorum of the Board of Supervisors, bids

scheduled for opening last Monday on 124 opera chairs for the choral room

of the Francisco Junior High School

will not be opened until next Monday, Jan. 12, it is announced by Leonard S. Leavy, city purchasing agent.

Plans Being Completed

SCHOOL BLDGS. Approx. \$300,000
OAKLAND, Alameda Co., Cal. Piedmont Highlands (Edith St. near Morpeth).

Group of reinforced concrete high school buildings (academic building, auditorium and gymnasium; accommodate 500).

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.

Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.

Buildings will be constructed for the Sister of The Holy Name.

Bids will be taken in two or three weeks.

BERKELEY, Alameda Co., Cal.—Regents of the University of California announce that approximately \$2,000,000 in improvements and buildings

will be undertaken at the University during the current year.

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SANTA CRUZ, Santa Cruz Co., Cal.
—Until January 13, 8 P. M. bids will be received by C. R. Holbrook, secretary, Board of Education, to furnish and install:

- (1) blackboards;
- (2) window shades;
- (3) lighting fixtures;
- (4) miscellaneous other equipment for the new Laurel, Gault and Mission Hills Schools. Specifications obtainable from secretary.

Contracts Awarded.
SCHOOL BLDG. Cost, \$160,000
SANTA BARBARA, Santa Barbara Co., Cal. Jefferson School Site
Two-story masonry school building (classrooms, kindergarten, etc.)
Owner—Santa Barbara City School District.

Architect—Floyd Brewster, J. C. Austin and F. M. Ashley, Chamber of Commerce Bldg., Los Angeles.
Contractor—Bakker & Robinson, 732 D St., San Bernardino, at \$109,300

Plumbing

Sweeny & Sons, 34 W. Cota St., Santa Barbara, at \$717.
Heating
Sweeny & Sons, Santa Barbara, at \$7345.

Electrical work and painting bids held under advisement.
Following is a complete list of bids received:

General Work

Bakker & Robinson, \$116,500; Christ Thoren, \$120,800; Minton Co., \$122,626; J. F. Kobler, \$123,945; Johnson & Hansen, \$128,374; J. P. Sullivan, \$133,950; A. L. Vezina, \$134,500; W. L. Snook, \$158,948.

Plumbing

Sweeny & Sons, \$8367; Kenneth Fraser, \$8572; Ott Hardware Co., \$9998; Crowell, Faulding & Osborne, \$10,850.

Heating

Sweeny & Sons, \$7755; Ott Hardware Co., \$8395; Kenneth Fraser, \$8949; Tom Windas, \$9556.76; F. P. Stuart & Co., \$9760.

Electrical Work

American Electric Constr. Co., \$3345; California Electric Co., \$3436; Nielson-Smith Electric Co., \$4083.70; Flynn Electric Co., \$4362.

Painting

Pohl-Brown Co., \$2612; Alhambra Wall Paper & Paint Co., \$3400; Wm. R. Morgan Co., \$3450; Becker Decorating Co., \$4185; F. Christensen, \$5600; Darrell T. Stuart, \$6434.

Bids Wanted—To Close Jan. 14th.
AUDITORIUM Cost, \$175,000
SAWTELLE, Los Angeles Co., Calif.
SE Texas and Westrate Ave.

Two-story class A reinforced concrete and brick school auditorium (10 rooms; 98x190-ft.)
Owner—City of Los Angeles School District.
Architect—A. S. Nibecker, Jr., Los Angeles.

Plans Completed.
COMMONS BLDG. Cost, \$150,000
REDLANDS, San Bernardino Co., Cal.
One- and two-story class A reinforced concrete commons bldg. (118x132).
Owner—University of Redlands (Geo. Cortner, business manager).
Architect—Marsh, Smith & Powell, Architects' Bldg., Los Angeles.

Plans Completed.
EDUCATIONAL UNIT Cost, \$18,000
PORTERVILLE, Tulare Co., Cal.
Two-story and basement frame and stucco educational unit, etc.
Owner—Porterville Methodist Church.
Architect—Rollin S. Tuttle, Box C, Los Gatos.

Work comprises new educational unit in connection with the church plant in addition to remodeling the church proper. The educational unit is to contain 18 classrooms for junior

and senior departments with facilities for about 750 pupils. Clark Standford, 212 E. Putnam Ave., Porterville, is chairman of the Building and Finance Committee.

Owner will call for bids within a few days.

SAN FRANCISCO—To relieve congestion in the Lawton School, 13th Ave. and Lawton St., and the Parkside School, 53th Ave. and Ulloa St., school hanglow buildings will be erected, on recommendation of J. M. Gwinn, city superintendent of schools

Prospective Bidders.
SCHOOL Cost approx. \$400,000
OAKLAND, Alameda Co., Calif. 45th Ave. and Foothill Blvd. (Fremont High School Site).
Three-story and basement steel frame and concrete high school with tile roof.

Owner—City of Oakland School Dist.
Architect—Charles W. McCall, 1404 Franklin St., Oakland.

Following is a partial list of contractors who have secured plans:
MacDonald & Kahn, Financial Center Bldg., San Francisco.

G. P. W. Jensen, 320 Market St., San Francisco.
G. S. Thornally, 354 Hobart Street, Oakland.
Schuler & MacDonald, 1733 Webster St., Oakland.
E. T. Lesure, 87 Ross Circle, Oakland.

David Nordstrom, 15 Nace St., Oakland.
Frank Barry, 1074 Harvard Road, Oakland.

Alfred Olsen, 631 Viona, Oakland.
George Petersen, San Leandro.
Chas. Vezey & Sons, 3220 Sacramento St., Oakland.
George J. Maurer, 50 York Drive, Oakland.

Carl N. Swensen, San Jose.
W. C. Seating, 4209 Mountain Blvd., Oakland.

Leibert & Trobeck, Rialto Bldg., San Francisco.
Barrett & Hilp, 918 Harrison St., San Francisco.

N. H. Sjoberg & Sons, Call Bldg., San Francisco.
H. L. Petersen, 731 Treat Ave. San Francisco.

Bids are to be opened Jan. 27, 4 '5 P. M.

Plans Completed.
BUILDING Cost, \$125,000
REDLANDS, San Bernardino Co., Cal.
One- and two-story class A reinforced concrete hall of expression building (130x187-ft.; to seat 400).
Owner—University of Redlands (Geo. Cortner, business manager).
Architect—Marsh, Smith & Powell, Architects' Bldg., Los Angeles.

BANKS, STORES & OFFICES

Contract Awarded.
ALTERATIONS Cost Approx. \$4000
SAN FRANCISCO, No. 10 Third St.
Stone fronts and fixtures.
Owner—Spreckels Estate.
Architect—G. A. Applegarth, Claus Spreckels Bldg., San Francisco.
Contractor—A. F. and C. W. Mattock, 210 Clara St., San Francisco.

Plans Complete.
REMODELING Cost, \$15,000
MODESTO, Stanislaus Co., Calif.
Remodeling (dance pavilion), etc.
Owner—P. H. Bottom.
Architect—G. N. Hilburn, 1312 1 St., Modesto.

Completing Plans.
OFFICES Cost, \$50,000
POMONA, Los Angeles Co., Cal. SE Holt Ave. and Main St.
Two-story Class A reinforced concrete offices.

Owner—Southern Counties Gas Co., 110 S. Flower St., Los Angeles.
Architect—Eng. Dept. of Owner.

Bids Opened—Held Under Advisement.
BANK BLDG. Cost, \$100,000
CHICO, Butte Co., Cal. Broadway and Second Sts. (95x51 ft.).

One-story reinforced concrete bank (steel trusses, marble work, etc.)
Owner—Bank of Italy.
Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.

There will be a space of 21 feet between the ceiling and the floor and the general interior will be of marble and acoustical plaster, with low type screens of bronze. The general construction will be of concrete, with steel trusses instead of pillars to support the roof.

Plans Being Figured.
BANK Cost, \$50,000
LOS GATOS, Santa Clara Co., Cal. Main St. and Santa Cruz Avenue (52x100 feet).

One-story reinforced concrete bank with tile roof (ornamental stone and acoustical plaster).
Owner—Bank of Italy.
Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.

There will be two stores, 20x72 feet, in connection with the building. Bids will be taken in one week or ten days.

Plans Being Completed.
NEWSPAPER BLDG Cost, \$15,000
SOUTH SAN FRANCISCO, San Mateo Co., Cal. Grand Ave. near Maple Street.

One-story reinforced concrete newspaper building (25x140 feet; composition roof).
Owner—Peninsula Newspapers, Inc., 1000 Alameda St., San Francisco.
Architect—John McCool, 351 Bush St., San Francisco.

Will be known as "The Enterprise." Bids will be taken in about two weeks.

Plans Being Figured.
REMODELING Cost, \$—
SAN FRANCISCO, S Post Street bet Grant Ave. and Kearny St.
Remodel present building for sporting goods house.
Owner—A. Carlisle Co., Upland and Rutledge, 135 Post St.
Architect—Willis Folk Co., 277 Pine Street.
Lessee—Shreve & Barber, 441 Kearny Street.

Contract Awarded.
ALTERATIONS Cost, \$6000
SAN FRANCISCO, 2263 Chestnut St.
Alterations for restaurant.
Owner—Poster Lunch System, 386 Mission St.
Plans by Mr. Murray.
Contractor—A. B. Murray, 525 4th St.

Plans Being Completed.
BANK Cost, \$50,000
MONTEREY, Monterey Co., Cal. SE Alvarado and Franklin Sts.
One-story and basement reinforced concrete bank and store building (two stores).
Owner—B. F. Wright, Monterey.
Architect—W. H. Weeks, 111 Sutter St., San Francisco.
Lessee—Bank of Italy and Palace Drug Co.

H. A. Minton, Bank of Italy Bldg., San Francisco, will prepare plans for the interior bank fixtures, etc. Bids will be taken in about one week.

WILLIAMS, Colusa Co., Cal.—G. H. S. Clark Store and Williams Hardware Store destroyed by fire Dec. 30. Loss is estimated at \$100,000, including stock.

Plans Being Completed.
OFFICES Cost, \$25,000
BURLINGAME, San Mateo Co., Cal.
Broadway.
Two-story steel frame and concrete
office and store building.
Owner—Leo Eckdoss, 5486 Mission St.,
San Francisco.
Plans by Russell Coleman, 1404 Broad-
way, Burlingame.

Contract Awarded.
OFFICES Cost, \$50,000
SAN FRANCISCO. Post and Scott
Streets.
Three-story brick offices.
Owner—Burke Benevolent Society,
416 O'Farrell St.
Architect—Hyman & Appleton, 68 Post
Street.
Contractor—A. F. and C. W. Mattock,
212 Clara St.

Contract Awarded.
ALTERATIONS Cost, \$12,500
OAKLAND, Alameda Co., Cal. No.
518 Sixteenth St.
Alterations to present store.
Owner—Oakland Remedial Loan Assn.,
514 17th St., Oakland.
Plans by S. Kulchar & Son, 731 E.
Tenth St., Oakland.
Contractor—S. Kulchar & Son, 731 E.
Tenth St., Oakland.

Plans Being Completed.
REMODELING Cost, \$—
SAN FRANCISCO, S Post Street bet.
Grant Ave. and Kearny St.
Remodel present building for sporting
goods house.
Owner—Castile Co., Upland and
Rutledge, 135 Post St.
Architect—Willis Polk Co., 277 Pine
Street.
Lessee—Shreve & Barber, 441 Kearny
Street.

Bids will be taken for a general
contract in one week.

Plans Being Figured.
STORE Cost, \$—
LOS ANGELES, Cal. No. 537-41 S.
Broadway.
Six-story and basement Class A steel
and concrete store, (terra cotta
front) (60x165 feet).
Owner—F. & W. Grand Silver Stores,
Inc.
Architect—Walker & Eisen, Western
Pacific Bldg., Los Angeles.

Construction Under Way.
STORES Cost, \$50,000
SAN MATEO, San Mateo Co., Cal.
Baldwin Ave. and B St.
One-story, concrete store (9 stores)
80x125 feet.
Owner and Builder—S. Wisnom, Fifth
and S-Clement Sts., San Mateo
Architect—Edwards and Schary, 665
Market St., San Francisco.

Preliminary Plans Being Prepared.
STORE Cost, \$—
SANTA CLARA, Santa Clara Co., Cal.
Two-story reinforced concrete store
and offices.
Owner—Eugene Simas, 675 Washing-
ton St., Santa Clara.
Architect—Wolfe & Higgins, Realty
Bldg., San Jose.

Contract Awarded.
ALTERATIONS Cost, \$12,500
SAN FRANCISCO, 961 Market St.
Alterations to store front.
Owner—Steinberg's, 961 Market St.
Plans by W. Roselyn, 2800 20th St.
Contractor—American Woodworking
Co., 2800 20th St.

Plans Being Completed.
STORE Cost, \$10,000
SAN JOSE, Santa Clara Co., Calif.
Two-story frame and stucco store and
residence.
Owner—Della Maggioro.
Architect—Wolfe and Higgins, Realty
Bldg., San Jose.
Bids will be taken in about 10 days.

Plans Being Completed.
BANK Cost, \$—
MONTREY, Monterey Co., Cal. Lo-
cation not selected.
One-story and mezzanine steel frame
and concrete bank.
Owner—Monterey County Trust and
Savings Bank.
Architect—H. H. Winner Co., 5 8 0
Market St., San Francisco.
Bids will be taken in about 2 weeks.

Contract Awarded.
PARTITION STORE Cost, \$—
SAN FRANCISCO, S Post Street near
Grant Ave.
Sub-dividing partition for store.
Owner—A. Carlisle Co., 135 Post St.
Engineer—Fred. Whitton, 399 Pine St.
Painting—A. Quandt, 374 Guerrero St.
Steam Work—O'Mara & Stewart, 218
Clara St.
Electric Work—Decker Electric Co.,
538 Bryant St.
Plastering—Herman Bosch, 449 Ful-
ton St.
Fixtures—Mullen Mfg. Co., 64 Rausch
Street.

THEATRES

Sub-Contracts Awarded.
REDECORATIONS Cost, \$—
SAN FRANCISCO, No. 1125 Market
St. (Embassy Theatre).
Redecorate theatre (new marquee,
signs, etc.)
Owner—Warner Bros., Inc., 243
Golden Gate Ave., San Francisco.
Plans by Eng. Dept. of Owner.
Mgt. of Constr.—J. Agnew, Premises.
Alterations to face of marquee
awarded to Electrical Products Corp.,
255 Golden Gate Ave.
As previously reported, carpentry
awarded to Ralph McLerran & Co.,
Hearth Bldg., S. F., painting and de-
corating to Cliff Heinsberger Decorat-
ing Co., 743 Beverly Blvd., Los An-
geles, at approximately \$15,000.

SOUTHERN CALIFORNIA—Walker
and Eisen, Ltd., and C. A. Balch,
associated architects, Western Pacific
Bldg., have entered into an agreement
with the United Artists Theaters of
California, Ltd., for the preparation of
plans for the first group of theatres
to be erected in Southern California
by the United Artists. The architects
will open offices in the Western Pa-
cific Bldg., adjoining the present quar-
ters of Walker & Eisen, for the pur-
pose of handling this theater work
and other work of a similar nature.
A number of sites for the new build-
ings are under consideration, two or
three of which will be announced this
week. It is expected that construction
on five to fifteen of the theaters will
be under way early in the new year.
Costs will range from \$50,000 to \$200,-
000, depending on the capacity and
location of the structure.

Excavation Being Completed.
THEATRE Cost, \$200,000
MERCED, Merced Co., Cal. Seventh
and J Sts. (150x150-ft.).
Two-story class C steel frame and
reinforced concrete theatre, stores
and office building (theatre to seat
1700).
Owner—Golden State Theatres, Inc.,
988 Market St., San Francisco.
Architect—Reid Bros., 165 Montgom-
ery St., San Francisco.
Contractor—Salih Bros., Golden Gate
Theatre Bldg., San Francisco.
Excavation—J. W. Huffman, Merced.
Sub-bids will be taken in two weeks.

CALIFORNIA—Joseph M. Schenck,
vice-president and chairman of the
Board of United Artists' Corporation,
1966 S Vermont Ave., Los Angeles, on
a recent visit to San Francisco, an-
nounced plans for four theatres in
the San Francisco district, one at
Berkeley, another in Richmond, a
third at Palo Alto and a fourth in San

Jose. The structures will cost ap-
proximately \$150,000 each.

SAN FRANCISCO—Paramount The-
atre, formerly the Granada, recently
acquired by the Fox West Coast The-
atres, will undergo improvements in-
volving an expenditure of \$150,000, it
is announced by A. M. Bowles, chief
executive of the Fox interests in this
territory. The structures will be closed
several weeks during which new seat-
ing will be installed and sound ap-
paratus renewed.

Sub-Bids Wanted.
THEATRE Cost, \$—
PHOENIX, Arizona. First and Wash-
ington Streets.
Two-story Class A reinforced concrete
theatre and store (150x200 feet);
to seat 1700, contain 13 stores and
offices.
Owner—Fox West Coast Theatres.
Architect—C. Charles Lee, 2404 W. 7th
St., Los Angeles.
Contractor—Robert E. McKee, Central
Bldg., Los Angeles.

WHARVES AND DOCKS

Plans Being Figured—Bids Close Jan.
SUP-STRUCTURE Cost, \$—
OAKLAND, Alameda Co., Cal. Foot
of Webster Street.
Concrete sub-structure for Inland
Waters Terminal; 152 ft. on har-
bor side, 295 ft. on slip side; also
concrete viaduct 260 ft. by 33 ft.
Owner—City of Oakland (Port Com-
mission, G. B. Hegardt, secretary)
Oakland Bank Bldg., Oakland.
Plans by Eng. Dept. of City Port
Commission, Oakland Bank Bldg.,
Oakland.

Certified check 10% required with
bid. Bond in full amount of contract
price will be required of the success-
ful bidder. Plans obtainable from se-
cretary.

See call for bids under official pro-
posal section in this issue.

MISCELLANEOUS CONSTRUCTION

Completing Plans
STORE & LODGE Cost, \$—
LOS ANGELES, Cal. Gower St. and
Van Ness Ave.
Two-story reinf. concrete store and
lodge (200 ft. frontage; entrance
structure, tower, etc.)
Owner—Hollywood Cemetery Assn.
Architect—Morgan, Walls & Clements,
Van Nuys Bldg., Los Angeles.

KENTFIELD, Marin Co., Cal.—Until
January 15, 3:00 P. M., bids will be
received by Ada M. Fussler, sec-
retary, Marin Union Junior College
District, to cut eucalyptus trees, 28
in number, on grounds of the Marin
Union Junior College at Kentfield.
Contractor to cut trees, saw and pile
in cord wood sizes and clean grounds.
Burning may be done upon author-
ization of President of the district.
Specifications obtainable from se-
cretary at 908 Fourth St., San Rafael.

Contracts Awarded.
ALTERATIONS Cont Price \$29,975
OAKLAND, Alameda Co., Cal. Tele-
graph Ave. near 29th St.
Alterations and additions to two-story
and basement brick veneer resi-
dence for mortuary and chapel.
Owner—Grant D. Miller, 2365 E-14th
St., Oakland.
Architect—Miller & Wameck, Fi-
nancial Center Bldg., Oakland.
Contractor—Jensen & Pedersen, 3443
Adeline St., Oakland.
Plumbing—Ma. Finzel, 2025 Hopkins
St., Oakland.
Heating—George Bell, 1926 E-15th St.,
Oakland.
Electric Work—George Woolf, 795 Al-
citraz Ave., Oakland.

Preparing Preliminary Plans.
TRACK Cost, \$—
BERKELEY, Alameda Co., Cal. University Campus.
 Track in the Stadium Bowl.
 Owner—University of California.
 Architect—Warren C. Perry, 350 California St., San Francisco.
 Proposed project is in a very preliminary stage.

Bids Opened.
HANGAR Cost, \$35,000
SACRAMENTO, Sacramento Co., Cal. Freeport Blvd. at Municipal Airport.
 Steel frame and wood hangar and air terminal station, 50x100 feet.
 Owner—City of Sacramento (to be leased to Boeing Air Transport Company).
 Architect—Harry Devine, 1405 Forty-first St., Sacramento.
 Structure will be of steel frame and wood construction covering an area of 50 by 100 feet, with an exterior covering of corrugated iron.

Following is a complete list of bids received:
 Lindgren & Swinerton, Inc., California State Life Bldg., Sacramento.....\$22,746
 H. W. Robertson, Sacramento, 33,888
 Campbell Constr. Co., Sacto.....34,312
 W. C. Keating, Sacramento.....34,850
 Azevedo & Sarmiento, Sacto.....34,913
 Fred H. Betz, Sacramento.....35,968
 Yoho & Dauger, Sacramento.....35,299
 W. L. Chatterton, Sacramento, 36,232
 C. J. Hopkinson, Sacramento.....36,987
 Chas. Unger, Sacramento.....37,639
 Guth & Fox, Sacramento.....37,686
 Ralph Hunter, Sacramento.....37,700
 Two lowest bids held under advisement until January 8.

ALAMEDA, Alameda Co., Cal.—Hauck & Huber, 1012 Eagle Ave., Alameda, at \$1080, submitted lowest bid to City of Alameda, for painting and spraying fences at Lincoln Park Nursery on Fernside Blvd., pump house at Jackson Park, fence at McKinley Park and pump house, etc., at Washington Park.
 Following is a complete list of bids received:
 Hauck & Huber, Alameda.....\$1080
 J. M. Jensen.....1668
 John Heritage & Sons.....1850
 East Bay Spraying Co.....2482
 H. C. Lovett Co.....2575
 Bay City Paint Co.....2650
 Bids held under advisement until January 8.

Contract Awarded.
ADDITION Cost, \$134,881
COMPTON, Los Angeles Co., Calif. East Main Street.
 Two-story reinforced concrete addition to museum (see crypts).
 Owner—Angelus Abebe Mausoleum.
 Architect—Clarence N. Aldrich, Pacific Southwest Bank Bldg., Long Beach.
Contractor—Peswick Const. Co., 230 Newport St., Long Beach.
 Other awards as follows:
 Beck Art Stone Co., on the art stone at \$2425; Long Beach Marble & Tile Co., on the tile at \$1998; L. T. Story, on the ventilating system at \$2839; Los Angeles Cement Gun Co., on the gunite at \$250; A-Bright Electric Co., on the electric wiring at \$2066, and Chas. Hartsell on the plumbing at \$590. Bids for the concrete work are as follows: Eswick Const. Co., \$134,881; Ryder Nelson Co., \$144,000; Chas. N. Fink, \$163,051; W. G. Reid, \$172,210; R. E. Campbell, \$181,810; B. D. Kronnick Co., \$207,750. Bids on the remaining work will not be taken for several months. This work includes the following: elevator, terrazzo and marble floors, ornamental bronze work leaded glass, roofing and interior marble trim. Soule Steel Co. will furnish

the reinforcing steel, B. H. Furden Material Co. the rock and sand, and Leebrick & Fisher the cement.

Bids Opened.
ALTERATIONS Cost, \$25,000
OAKLAND, Alameda Co., Cal. Telegraph Ave. near 29th St.

Alterations and additions to two-story and basement brick veneer residence for mortuary and chapel.

Own—Grant D. Miller, 2365 E-14th St., Oakland.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Following is a complete list of bids received:
 Jensen & Petersen, 3443 Adeline St., Oakland (1 all) \$29,975; (2) add \$230.
 W. C. Keating, Oakland (1) \$29,995; (2) \$300.
 T. D. Courtright, Oakland (1) \$30,589; (2) \$170.
 J. B. Peterson, Oakland (1) \$31,710; (2) \$431.
 F. C. Stoltz, Oakland (1) \$32,400; (2) \$400.
 Fred J. Westlund, Oakland (1) \$33,970; (2) \$270.
 H. J. Christenson, Oakland (1) \$34,270 (2) \$250.
 George Petersen, Oakland (1) \$34,500; (2) \$400.
 R. W. Littlefield, Oakland (1) \$36,695; (2) \$450.
 T. A. Scott, Oakland (1) \$39,539.

Bids held under advisement. Electric, plumbing and heating bids held under advisement for a few days.

Contract Awarded
UNDERTAKING PARLORS \$40,000
SAN FRANCISCO, Sacramento Street Bet. Van Ness Ave. and Polk St.
 Three-story frame and stucco undertaking establishment and apartments.
 Owner—Jos. Hagan, 178 Sacramento St., San Francisco.
 Architect—Henry C. Smith and A. R. Williams, Humboldt Bank Bldg., San Francisco.

Contractor—Reavey & Spivock, Shell Oil Bldg., San Francisco.
 Working is now under way and construction will be started in about two weeks.
 Mechanical bids are held under advisement.

MISCELLANEOUS SUPPLIES AND MATERIALS
UKIAH, Mendocino Co., Cal.—Until January 13, 2:30 P. M., bids will be received by H. M. Burke, county clerk to furnish and deliver fuel and stone oil to county at Courthouse and Detention House, for one year period commencing January 15, 1931. Specific gravity of fuel oil to be 18 degrees plus. Bids on price per gallon. Further information obtainable from clerk.

OAKLAND, Cal.—Bunker Hill and Sullivan M. and C. Co., San Francisco, and American Smelting and Refining Co., San Francisco, at \$5100 submitted identical bids to the East Bay Municipal Utility District to furnish 50 tons of pig lead for distribution system. Both bids were subject to acceptance on January 6. Independent Smelting and Refining Co., Oakland, at \$5340 only other bidder.

OAKLAND, Cal.—Heafey-Moore Co., 344 High St., Oakland, at 74c per gal. submitted only bid to East Bay Municipal Utility District to furnish and deliver 30,000 gals. Grade "E" hot asphalt. Total bid \$2550. Taken under advisement.

SACRAMENTO, Cal.—H. G. Denton, city clerk, will ask bids shortly to furnish 800,000 lbs. of sulphuric acid. The material will be used in the manufacture of sulphate of aluminum with which the city's water supply is chemically treated.

BUSINESS OPPORTUNITIES

PITTSBURGH, Pa.—J. V. Walsh Sales Corp. (J. V. Walsh, president), 705 Washab Bldg., Pittsburgh, Pa., desires to secure a reputable representative who comes in personal contact with the electricians and electrical engineers in the industrial field.
LOS ANGELES, Cal.—Candee-Smith Governor Co. (Attention Mr. Will D. Candee) 215 North Los Angeles St., Los Angeles, Calif., manufacturing a small article which is sold principally by mail order desires to secure suitable selling agents.
NEW YORK, N. Y.—A. V. Smith and Associates, 185 Madison Avenue, New York, desires to represent Western concerns in New York City.

CINCINNATI, Ohio—Steel Partition Division, The Globe-Wernicke Co. (Attention Mr. G. J. Strower), Cincinnati, Ohio, manufacturing high grade steel office and factory partition, desires to secure agent who is selling to building architects, engineers and industrial concerns.

Names and addresses of persons or firms concerned in the following opportunities will be furnished on request to Business Opportunity Department, Daily Pacific Builder, 547 Mission St., San Francisco or phone GARfield 7744:

20742—Onyx, Paris, France. Party is anxious to contact firms quarrying and exporting onyx.

20743—Cryslar, Gera, Melnik, Czechoslovakia. Exporters of glass products inquire for names of merchants interested in importing high-class Bohemian crystal glass.

20744—Chinaaware, Danzig-Langfuhr. Party is desirous of being put in touch with local importers of chinaware.

20750—Sewing Machine Parts, Osaka, Japan. Manufacturers and exporters of various sewing machine parts and accessories are desirous of opening business relations with dealers of this line.

20751—Representation, Guayaquil, Ecuador. Party representing several local exporters in Ecuador wishes to take on additional lines. First-class references available.

20752—Information Re Argentine, Buenos Aires, Argentina. Trade lists, statistical data, customs rulings, duties or any information on Argentine will be sent to interested parties.

20755—Foreign Investigation, San Francisco, Calif. Is desirous of contacting firms interested in industrial and trade investigation in Spanish America, on food, lumber or machinery. 31

The General Electric Company announces a new pendant type push button for controlling small fire operated cranes. This is designed to supersede the present rope and chain types of control, with the advantages of greater safety to the operator, a saving in time (only one man being necessary to operate the crane) and less aisle space required on the factory floor. The push button station is 20 1/2 inches long, 2 1/2 inches wide and 2 9/16 inches deep less the projection of the buttons. It is of the proper size to be readily grasped and operated by one hand. The box is cast aluminum, thus being both light in weight and strong.

Engineering News Section

BRIDGES

LOS ANGELES COUNTY, Cal.—Until Jan. 28, 2 P. M., bids will be received by State Highway Commission for the following bridge work in Los Angeles County:

Bridge over Topanga Creek, about 4 miles north of Santa Monica, to be widened by constructing eight 27-foot timber spans on pile bents adjoining the existing concrete bridge and grading and surfacing approaches with asphalt concrete.

Bridge over Las Flores Creek about 7 miles north of Santa Monica to be widened by constructing two 26-foot reinforced concrete girder spans on a concrete pier and concrete abutments and grading and surfacing approaches with asphalt concrete.

WILLOWS, Glenn Co., Calif.—Construction will be started at once by G. A. Bondurant, county supervisor, on the construction of two bridges at Stanton and Logan west of Norman; est. cost, \$1500 and \$1800 each.

STOCKTON, San Joaquin Co., Cal.—County Surveyor Julius E. Manthey will prepare plans for proposed Garwood Ferry Bridge over the San Joaquin river, for which the county will appropriate \$70,000. The sum of \$20,000 has been set aside to build the approaches and negotiations for rights of way are being completed. The new span will be located about 1000 feet north of the present bridge.

LOS ANGELES COUNTY, Cal.—As previously reported, bids will be received by State Highway Commission for widening bridge across Topanga Creek, about 4 miles north of Santa Monica by constructing eight 27-ft. timber spans on pile bents adjoining the existing concrete bridge and grading and surfacing approaches with asphalt concrete; also for widening bridge across Las Flores Creek, about 7 miles north of Santa Monica by constructing two 26-ft. reinforced concrete girder spans on a concrete pier and concrete abutments and grading and surfacing approaches with asphalt concrete. Project involves:

- (1) 375 cu. yds. channel excavation;
- (2) 900 cu. yds. rdwy. excav. without class;
- (3) 990 cu. yds. struc. excavation;
- (4) 1260 lin. ft. furnishing creosoted Douglas fir piles;
- (5) 42 each. drive creosoted Douglas fir piles;
- (6) 125 cu. yds. existing concrete to be removed;
- (7) 470 cu. yds. class A Portland cement concrete;
- (8) 6.25 cu. yds. class E do;
- (9) 54,500 lbs. reinf. steel;
- (10) 9 M. ft. B.M. redwood timber, dense select all-heart struc. grade;
- (11) 77 M. ft. B.M. untreated Douglas fir timber, struc. grade;
- (12) 12.5 M. ft. B.M. creosoted Douglas fir timber, struc. grade;
- (13) 1380 tons asphalt concrete;
- (14) 1 lot misc. items of work.

OAKLAND, Cal.—Hearing upon the application of the Alameda County Supervisors to construct a bridge over the tidal canal at the north end of Park Street, Alameda, will be held in the chambers of the Board of Supervisors, Courthouse, Oakland, January 29. It is announced by Major E. H.

Ropes, U. S. district engineer. Plans submitted provide for a double lift bascule bridge, having a clear channel width of 256-ft. when opened and vertical clearances of 12.7 feet and 15.4 feet above mean high water at pier and middle, respectively, when closed. The plans were prepared by Geo. A. Posey, Alameda county surveyor.

SANTA BARBARA, Calif.—County Surveyor Owen H. O'Neill preparing plans for steel bridge over San Roque Creek; 500-ft. long, 22-ft. wide; est. cost \$50,000.

OAKLAND, Cal.—Until January 15, (tentative date), bids will be received by Southern Pacific R. R., 65 Market St., San Francisco, to construct 7th St. Subway; total estimated cost \$205,000 of which city of Oakland may pay one-half.

Subway will have a grade of 4% in east approach and 5% in west. Complete length will be 755-ft. Level portion of subway will be 187-ft. long; roadway 23-ft. wide with 6-ft. pedestrian walks on north side. Ventilating system similar to one now in use in the George A. Posey Tube of Alameda County will be installed.

Plans obtainable from Engineering Department, Southern Pacific Company, 65 Market St., San Francisco. W. H. Kirkbridge, chief engineer of maintenance of way and structures.

SANTA CRUZ, Santa Cruz Co., Cal.—Frank Bryant, 5919 23rd St., San Francisco, at \$28,804.72 submitted low bid to the county supervisors to construct a timber bridge with reinforced concrete floor over the Southern Pacific Tracks near Felton Station, Zayante Creek and Zayante Road in San Lorenzo Road District.

C. C. Gildersleeve, 1508 G St., at \$33,389 submitted low bid for steel bridge with reinforced concrete floor. Following is a complete list of the bids received, the two lowest being taken under advisement until January 21:

- (a) timber construction; (b) steel bridge.
- Frank Bryant, San Francisco, (a) \$28,504; (b) \$34,732.
- M. B. McGowan, San Francisco, (a) \$29,185; (b) \$34,982.
- C. C. Gildersleeve (a) \$29,538; (b) \$33,389.
- Leard and Eishop, Oroville (a) \$30,249; (b) \$36,104.
- Leo Cardwell Const. Co., (a) \$31,382; (b) \$36,662.
- F. M. Bodenhammer (a) \$31,537; (b) \$37,588.
- Jas. T. Walsh (a) \$32,036; (b) \$37,349.
- A. W. Kitchin, San Francisco (a) \$35,761; (b) \$37,290.
- Pacific Const. Co., San Francisco, (a) \$37,750; (b) \$37,750.
- Healy-Tibbits Const. Co., San Francisco, (a) \$35,920; (b) \$39,618.
- B. C. Gerwick, San Francisco, (a) \$36,350; (b) \$38,712.

VISALIA, Tulare Co., Cal.—County Surveyor T. Wayne Switzer instructed by supervisors to make survey of culverts on permanent highways with a view to increasing their widths.

NAPA, Napa Co., Cal.—City Engineer H. A. Harold is completing specifications for proposed Brown Street bridge and bids will be asked in the immediate future. Details of construction will be published shortly.

DREDGING, HARBOR WORKS & EXCAVATIONS

RICHMOND, Contra Costa Co., Cal.—Until February 5, 3 P. M., bids will be received by U. S. Engineer Office, Custom House, San Francisco, for dredging in Richmond Harbor. Project involves 523,500 cu. yds. Specifications obtainable from above.

SAN DIEGO, Cal.—Western Dredging Co., 611 Security Title Insurance Bldg., Los Angeles, submitted low bid of 36c per cubic yard to the U. S. Engineer at Los Angeles for dredging approx. \$25,000 cu. yds. of material from an area of about 185 acres in the NE portion of San Diego Harbor. The area lies westerly of the western waterfront of the city of San Diego, extending from Municipal Pier No. 1 to Spreckels Wharf. Other bids were: Standard Dredging Co., 37.9c; San Francisco Bridge Co., 39c; Morris and Cumings Dredging Co., New York City, 68c. The engineer's estimate was \$232,200.

FORT BRAGG, Mendocino Co., Cal.

—As previously reported, bids will be received January 16, 3 P. M., by U. S. Engineer Office, Customhouse, San Francisco, to remove old jetty, construct new jetties and dredging in the Noyo river, approximately 1½ miles from Fort Bragg. Project involves:

- (1) 8,000 tons of rock (remove from old jetty);
- (2) 750 cu. yds. concrete (remove from old jetty);
- (3) 240 feet sheet pile bulkhead (new jetties);
- (4) 25,000 tons to be furnished and placed;
- (5) 110,000 cu. yds. dredging of sand, gravel, boulders and clabs;
- (6) 1,820 cu. yds. rock to be removed from river.

Specifications obtainable from U. S. Engineer Office, Custom House, San Francisco.

EUREKA, Humboldt Co., Calif.—Until January 22, 3 P. M., bids will be received by U. S. Engineer Office, Customhouse, San Francisco, for dredging in Humboldt Bay. Project involves 491,700 cubic yards. Specifications obtainable from above office.

SACRAMENTO, Sacramento Co., Cal.—Olympian Dredging Co., 249 1st St., San Francisco, at \$112 cu. yd. submitted only bid to U. S. Engineer Office, Sacramento, to dredge channel, 9 feet deep and approximately 100 feet wide through the shoal in Middle River, near Mildred Island. Project involves 5,000 cu. yds.

HONOLULU, T. H.—U. S. Engineer Office, Honolulu, rejects lone bid of Hawaiian Dredging Co., Ltd., 854 Kashiwani St., Honolulu, at \$66,500 for repairing breakwater at Nawiliwili Harbor, Hawaii. Bid received Dec. 4.

SAN RAFAEL, Marin Co., Calif.—Franks Construction Co., 260 California St., San Francisco, at 31c cu. yd. submitted low bid to U. S. Engineer Office, Customhouse, for dredging in San Rafael Creek, involving 42,115 cu. yds. Other bids were Pacific Coast Dredging Co., 32½c cu. yd. and Dut-ton Dredging Co., 34c cu. yd. Taken under advisement.

PETALUMA, Sonoma Co., Calif.—American Dredging Co., 255 California St., San Francisco, at 54c cu. yd. submitted low bid to U. S. Engineer Office, San Francisco, for dredging in Petaluma Creek, involving 73,975 cu. yds. Benjamin Walters, 755 Howard St., San Francisco, only other bidder at 55c cu. yd. 1

SUISUN, Solano Co., Cal.—Hydraulic Dredging Co., Central Bank Bldg., Oakland, at \$1399 cu. yd. submitted low bid to U. S. Engineer Office, Customhouse, San Francisco, for dredging in Suisun Bay, involving 521,240 cu. yds. San Francisco Bridge Co., only other bidder at \$1425 cu. yd. Taken under advisement. 1

IRRIGATION PROJECTS

RICHVALE, Butte Co., Cal.—Election will be held January 24 in Richvale Irrigation District to vote bonds of \$500,000 to finance purchase of a portion of the Sutter-Butte Canal Company's system and a portion of that firm's rights in the Feather River.

TURLOCK, Stanislaus Co., Cal.—H. Johanson, Turlock, at \$2,731.87 awarded contract by Turlock Irrigation District, under Schedule No. 6 and at \$11,876.90 under Schedule No. 7 for 2-inch concrete canal lining.

Lloyd Terrell, Turlock, at \$4,953.94 awarded contract for similar work under Schedule No. 8.

Bids under Schedules 1 to 5 inclusive, were rejected, and new bids will be considered January 26. P. M. Specifications obtainable from Anna Sorensen, secretary of district, at Turlock.

TURLOCK, Stanislaus Co., Calif.—Until January 26, 2 P. M., bids will be received by Anna Sorensen, secretary, Turlock Irrigation District, for construction in Improvement Districts Nos. 58, 34, 38, 10, 63, 66, 34-38 Joint Spillway and Chanton Spillway. The work is divided into eight schedules and amounts in total to about 652,671 sq. ft. of 2-inch thick concrete canal lining and 473 cu. yds. of concrete in canal structures and about 600 lb. of 30-in. and 330 ft. 36-in. diameter concrete pipe. Certified check 5% payable to district required with bid. Plans obtainable from secretary.

STREET LIGHTING SYSTEMS

SAN FRANCISCO—Paul J. Ost, city electrical engineer, in a report to the supervisors declares that from \$18,000 to \$28,000 will be saved for the city treasury if all concrete standards are installed on the city's 19-mile boulevard system. It was first proposed to install 600 metal standards and 300 concrete standards. The cost of concrete poles and their installation throughout would be \$60,453, whereas 300 concrete and 600 taper tube poles would amount to \$70,080, and 300 concrete and 600 cast iron standards would be \$88,248.

SAN MATEO, San Mateo Co., Cal.—City council will start proceedings at once to widen B street from Baldwin to Ninth avenues including installation of an electroliner system; estimated cost \$75,000. Street will be widened from 46 feet to 52 feet.

MACHINERY AND EQUIPMENT

PHOENIX, Arizona—Until January 26, 2:00 P. M., bids will be received by Phoenix Indian School, Phoenix, to furnish one concrete mixer, similar and equal to TS Lakewood, manu-

factured by The Lakewood Engineering Company, Cleveland, Ohio, and equipped with 6 to 8 H.P. 2-cylinder gas engine, to be radiator cooled, power charging skip, water tank, automatic, self measuring; mixer to be mounted on steel frame with steel wheels; approximate capacity, dry material, 10 cubic feet; wet mixed concrete, 7 cubic feet. Bids wanted on basis of delivery; f.o.b. Phoenix and f.o.b. shipping point.

WASHINGTON, D. C.—See "Government Work and Supplies," this issue. Bids wanted by Bureau of Supplies and Accounts, Navy Department, to furnish and deliver miscellaneous machinery, equipment and supplies to various Pacific Coast Navy Yards.

SEATTLE, Wash.—Buckner-Weatherby Co., Inc., at \$50,217 submitted low bid to Board of Public Works to furnish one 2-trolley crane for installation at Diablo Plant of Skagit hydro-electric development for the city lighting department. Complete list of bids follows:

Buckner-Weatherby Co.	\$50,217
Harnischfeger Sales Corp.	52,175
Cyclops Iron Works	56,841
Judson Pacific Co.	64,500
Consolidated Steel Co.	64,660
Cleveland Crane & Eng. Co.	65,500
Whiting Corp.	67,345
H. R. L. Motor Co.	71,560
Morgan Eng. Co.	75,250

BAKERSFIELD, Kern Co., Cal.—Bids will be asked at once by Kern County Union High School District to furnish and deliver one auto truck chassis and body for transportation of pupils.

FIRE ALARM SYSTEMS

LOS ANGELES, Cal.—H. H. Walker, 1323 Venice Blvd., submitted low bid to the city purchasing agent at \$66,145, with time limit 90 days, for installing traffic signals at 23 intersections on Wilshire Blvd, under Specifications No. 2275. Other bids were: Newberry Elec. Co., \$68,855; Acme Traffic Signal Co., \$71,389.50; Eagle Signal Sales Corp., \$80,480; Underground Constr. Co., \$81,560; General Electric Co., \$143,300. All bids were net.

RESERVOIRS AND DAMS

GLENDALE, Los Angeles Co., Cal.—Mittry Bros. Construction Co., 723 Detwiler Bldg., Los Angeles, submitted the low bid to the city council at \$499,000 to construct two reservoirs. Will be built of rectangular shape, 22 ft. deep, with an area of 28,325 sq. ft. The reservoirs will be constructed adjoining, providing a total capacity of 35,000,000 gallons. They will be of retaining wall type with reinforced concrete roof. The construction involves:

26,000 cu. yds. reinforced concrete;
160,000 cu. yds. excavation;
10,000 cu. yds. tamped embankment
22,000 cu. yds. earth placed on concrete roof.

Other bids were: Martter & Bock, \$521,000; C. M. Elliott, \$522,000; Herbert M. Baruch Corp., \$529,587; Carpenter Bros., Inc., \$539,990; Weymouth Crowell, \$543,000; Monroe & Westcott, \$547,000; Western Constr. Co., \$549,215; General Engng. Co., Ltd., \$550,000; H. W. Roll Co., \$550,000; Chas. U. Heuser, \$551,700; Clinton Constr. Co., \$565,000; Gist & Bell, \$572,000. The bids were taken under advisement.

HEALDSBURG, Sonoma Co., Cal.—Until January 26, bids will be received by city council to raise height of side-walls of city reservoir at Fitch Mountain to increase storage capacity. Plans on file in office of city clerk

OWYHEE DAM, Ore.—American Locomotive Co., Schenectady, N. Y., submitted the low bid to the U. S. Bureau of Reclamation, Denver, at \$18,813 for furnishing three 4-in. internal differential needle valves for the Owyhee Dam, Oregon, under Specifications No. 516. The other bids were:

Joshua Hendy Iron Works, San Francisco,	\$19,500.
Consolidated Steel Corp., Los Angeles,	\$19,572.
Stacy-Schmidt Mfg. Co., York Pa.,	\$19,870.
Hardie-Tynes Mfg. Co., Birmingham, Ala.,	\$20,565.
Johnson City Foundry & Machine Co., Johnson City, Tenn.,	\$23,700.
Michigan Valve & Foundry Co., Detroit, Mich.,	\$23,970.
Ogden Iron Works, Ogden, Utah,	\$28,350.
The Aldrich Pump Co., Allentown, Pa.,	\$24,960.
Foots Bros. Gear & Mach. Co., Chicago, Ill.,	\$26,700.
Rosedale Foundry & Mach. Co., Pittsburgh, Pa.,	\$23,145.
Baash-Ross Tool Co., Los Angeles, Calif.,	\$24,834.
Lake Erie Engr. Corp., Buffalo, N. Y.,	\$29,484.
Treadwell Eng. Co., Easton, Pa.,	\$26,769.
H. R. L. Motor Co., Seattle, Wash.,	\$23,400.
Rock Island Arsenal, Rock Island, Ill.,	\$31,950.

PIPE LINES, WELLS, ETC.

COALINGA, Fresno Co., Cal.—The Associated Oil Co. has announced that the Coalinga-Monterey Bay pipe line, built 25 years ago, will be rebuilt to make it suitable for the transportation of light crude oil and casinghead gasoline.

KETTLEMAN HILLS, Kings Co., Cal.—Southern California Gas Corp., a subsidiary of the Pacific Lighting Corp. and the Southern California Edison Co., Ltd., will start construction of a 30-inch, 200-mile pipe line from the Kettleman Hills District to Los Angeles at a cost of between \$8,000,000 and \$10,000,000.

NEVADA CITY, Nevada Co., Cal.—Natural Gas Corp. of California, seeks franchise from county supervisors to install gas pipe lines in roads and highways of the county to furnish natural gas for the Nevada county district. The application will be acted upon February 4.

MARTINEZ, Contra Costa Co., Cal.—Wallace E. Bland at \$909 for 200 ft. depth, awarded contract by county supervisors to drill well at Brentwood for Contra Costa County Water Works District No. 1. For depth of 300 ft. Bland bid \$1,426.

PALO ALTO, Santa Clara Co., Cal.—Until January 12, 4 P. M., bids will be received by E. L. Beach, city clerk, to construct gravel envelope well in Evergreen Park, Est. cost \$5,000. Specifications obtainable from J. F. Byxbee, city engineer.

OAKLAND, Cal.—Until January 12, 4:30 P. M., bids will be received by G. B. Hegardt, secretary, City Port Commission, Oakland Bank Bldg., to furnish and deliver fifteen 45-foot lengths of 20-in. welded steel dredge pipe. Specifications obtainable from above.

SEWERS AND SEWAGE DISPOSAL PLANTS

SAN JOSE, Santa Clara Co., Cal.—City council declares intention (5275) to improve portions of 16th St., be-

tween Vestal Ave. and Rosa St., involving construction of 8-inch sanitary sewer; 1 c. i. flushing inlet; 5x8-in. wye branches; 4-in. vitrified sewer lateral connection. 1911 Act. Hearing January 12 John J. Lynch, city clerk. Wm. Popp, city engineer.

LOS ANGELES, Cal.—Until 130 P. M., Jan. 14, bids will be received by County Sanitation District No. 2, 139 N Broadway, room 202, for the construction of two sludge digestion units each consisting of four sludge digestion tanks, a pump and boiler house, a gas tank, and all appurtenant structures. Plans obtainable at the office of the chief engineer, A. K. Warren, 202 E. Bldg., 133 N Broadway, A. S. Soule, secretary. Cert. check or surety company bond, 10%.

HAYWARD, Alameda Co., Calif.—City engineer Jesse B. Hollis is making surveys for extension of sewer system into area lying SW of the Western Pacific Railroad and C St.

OAKLAND, Cal.—Until January 22, 21 noon, bids will be received by F. C. Merritt, city clerk, to construct storm sewers with appurtenances in 29th Ave. bet. East 12th St. and the U. S. Tidal Canal for which city has provided \$20,000 from the General Fund. Bids will be taken on two propositions, as follows:

Proposition A

- 100 lin. ft. 5x8-ft. monolithic concrete arch storm sewer (including concrete end wall)
- 110 lin. ft. 3-ft. x 3-in. by 3-ft. 6-in. monolithic concrete arch storm sewer;
- 37 lin. ft. 3-ft. 3-in. by 3-ft. 6-in. monolithic concrete arch storm sewer;
- 1210 lin. ft. 2 ft. 6 in. by 2 ft. 9 in. monolithic concrete arch storm sewer;

Proposition B

- 100 lin. ft. 60-in. reinf. conc. pipe storm sewer (including concrete end wall);
- 210 lin. ft. 39-in. or 42-in. reinforced concrete pipe storm sewer;
- 37 lin. ft. 39-in. or 42-in. x 3-ft. extra strength reinf. conc. pipe storm sewer, with concrete saddle;
- 1210 lin. ft. 30-in. reinforced concrete pipe storm sewer;
- 29 in. ft. 1 ft. 6 in. by 4 ft. concrete box storm sewer with reinf. top;
- 811 lin. ft. 24-in. plain concrete or vit. pipe conduit;
- 109 lin. ft. 24-in. extra strength reinforced conc. pipe conduit, with concrete saddle, or 24-in. vitrified pipe conduit with conc. jacket;
- 28 lin. ft. 18-in. plain concrete or vitrified pipe conduit;
- 300 lin. ft. 15-in. do.;
- 69 lin. ft. 15-in. extra strength reinforced conc. pipe conduit, with concrete saddle, or 15-in. vitrified pipe conduit with conc. jacket;

- 183 lin. ft. 12-in. plain concrete or vitrified pipe conduit;
- 138 lin. ft. 10-in. do.;
- 8 manholes with standard tops on concrete shoulders of storm sewer;
- 5 manholes with standard tops and brick base on pipe conduits;
- 2 manholes with inlet tops (34-in. opening);
- 1 concrete junction chamber, with handhole;
- 4 storm water inlets (21-in. opening);
- 5 storm water inlets (34-in. opening);
- 3 storm water inlets (Type A).

Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

LOS ANGELES, Calif.—Until 10 A. M., Jan. 21, bids will be received by the board of public works to con-

struct by-pass sewer at Hyperion sewage treatment plant to provide additional safeguard to machinery of plant. The proposed by-pass will be approximately 500 ft. in length, being constructed of 5 ft. and 6 ft. diameter pipe, approx. 30 ft. of the beach end to be constructed on piling, the other end to be in a reinforced concrete tie lined transition chamber. This by-pass will be used in connection with automatic control gates.

PALO ALTO, Santa Clara Co., Cal.—City Engineer J. P. Byxbee is making surveys for storm water sewer in Oregon Ave. from High St. to Middlefield Road. Estimated cost, \$5000.

WATER WORKS

OAKLAND, Cal.—Bunker Hill and Sullivan M. and C. Co., San Francisco, and American Smelting and Refining Co., San Francisco, at \$3100 submitted identical bids to the East Bay Municipal Utility District to furnish 50 tons of pig lead for distribution system. Both bids are subject to acceptance on January 8. Independent Smelting and Refining Co., Oakland, at \$5340 only other bidder.

OAKLAND, Cal.—Art Concrete Co., 24th and Adeline Sts., Oakland, at \$4.50 each submitted low bid to East Bay Municipal Utility District to furnish 4,600 concrete meter boxes without covers. Art Concrete Co., Sacramento, at 69c only other bidder.

W. H. Larson, 2650 Curtis St., Sacramento, at 33c each submitted low bid to furnish 6000 concrete meter box covers. Art Concrete Co. only other bidder at 49c each.

Taken under advisement.

OAKLAND, Calif.—Following bids taken under advisement by East Bay Municipal Utility District to furnish and deliver 50,000 ft. 20-in., 16-in., and 6-in. cast iron pipe for distributing system:

- (a) 1,000 ft. Class B, 20-in.;
 - (b) 9,000 ft. Class B, 16-in.;
 - (c) 40,000 ft. Class B, 6-in.;
 - (d) 40,000 ft. Class 250, 6-in.
- C. G. Clausen and Co., Inc., Oakland (a) \$3.17; (b) \$2.25; (c) \$0.603.
- U. S. Pipe & Foundry Co. S. F. (a) \$3.39; (b) \$2.42; (c) \$0.57.
- American C. I. Pipe Co., S. F., (a) \$3.42; (b) \$2.44; (c) \$0.59.

National C. I. Pipe Co., Los Angeles, (a) \$3.675; (b) \$2.625; (c) \$0.68; (d) \$0.603.

R. O. Wood & Co., Philadelphia, Pa. (a) \$3.71; (b) \$2.65; (c) \$0.706; (d) \$0.585.

Pacific States C. I. Pipe Co., (a) \$0.5825.

R. D. Wood & Co., Philadelphia, Pa. (a) \$3.339; (b) \$2.385.

SACRAMENTO, Sacramento Co., Cal.—Engineer Henry Dewell, 55 New Montgomery St., San Francisco, has been commissioned by the city council to make a study of conditions of the sedimentation basin at the Municipal Filtration Plant with a view to recommending improvements necessary to place the plant in condition.

OAKLAND, Cal.—Bunker Hill and Sullivan Mining and Contracting Co., Crocker Edg., San Francisco, at \$3,100 awarded contract by East Bay Municipal Utility District to furnish and deliver 50 tons of pig lead for use on distributing system.

OAKLAND, Calif.—Byron Jackson Pump Co., 6th and Carlton Streets, Berkeley, awarded contract by East Bay Municipal Utility District to furnish and install booster pump unit and equipment in El Cerrito Pumping Station.

PORTLAND, Ore.—Following bids taken under advisement by city purchasing agent to furnish 6-in. to 30-in. c. i. pipe for Municipal Water Department:

C. D. Wood & Co., total of \$103,785; alternate on sand spun cast iron pipe, \$39,779.79.

U. S. Pipe & Foundry Co., \$104,143; alternate on DeLaval centrifugal cast iron pipe, \$40,546.96.

National Cast Iron Pipe Co., \$104,911.50; alternate on DeLaval, \$40,963.78.

Pacific States Cast Iron Pipe Co., \$380 ft. 6-in. pipe, \$2,994.

American Cast Iron Pipe Co., omitting 30-in. pipe, \$73,062.50; Mono-cast cast iron pipe alternate, \$40,983.70.

POSTER, Wash.—Until January 17, 8 P. M., bids will be received by S. N. Bennett, secretary, Water District No. 35, for water supply system, involving (a) 6,000 ft. 6-in. main pipe line extending from Beacon Hill to Poster;

(b) distributing system, involving approximately 3½ miles of mains 2-in. to 6-in. diameter.

Certified check 5% payable to Treasurer, King County, Wash., required with bid. Plans obtainable from Miller Engineering Co., Burke Edg., Seattle, on deposit of \$15, returnable if bid is submitted, otherwise only \$10 will be returnable.

PLACERVILLE, El Dorado Co., Cal. Pelton Water Works Co., 2029 14th St., San Francisco, at \$3500 awarded contract by El Dorado Irrigation District, under Schedule A, to furnish one 30-inch c. i. thimble; one 30-inch butterfly valve, complete, with all appurtenances; two 5-inch air valves, complete, with connections and under Contract B, one needle valve, complete, with operating mechanism and special connections.

Western Pipe & Steel Co., 444 Market St., San Francisco, at \$7800 awarded contract to furnish, under Schedule C, 795 lin. ft. 30-inch single and double riveted ½-inch plate steel pipe, complete, installed with connections, bends and specials.

SAN DIEGO, Calif.—U. S. Pipe & Foundry Co., 2336 E 8th St., submitted the low bid to the city purchasing agent, A. V. Goedel, at \$11,690 or \$1.67 per ft. for furnishing 7000 ft. of 12-in. class C cast iron pipe. The other bids were:

American Cast Iron Pipe Co., \$1.73; \$12,110.

R. E. Hazard Const. Co., \$1,775; \$12,425.

The award will probably be made to the U. S. Pipe & Foundry Co.

BEVERLY HILLS, Cal.—Until Jan. 27, 8 P. M., bids will be received by city council for the following improvements in connection with water system:

- (a) For certain booster pump equipment;
- (b) Furnish and install one deep well turbine pump;
- (c) Drill one well with guaranteed production;
- (d) Construct one underground pump chamber.

Specifications obtainable from Salisbury, Bradshaw and Taylor, engineers 714 W 10th St., Los Angeles.

MODESTO, Stanislaus Co., Calif.—Modesto Irrigation District will include in its 1931 construction program the construction of wells and installation of pumps to cost \$20,000 and the building of spillways at a cost of \$4,000.

PORTLAND, Ore.—PePageMcKenney Co., 45 North Ninth St., Portland, at \$183,576.50 awarded contract by city purchasing agent to construct the

Ross Island Bridge mains and connecting lines for the Bureau of Water Works. The new lines will consist of a 30-in. cast iron main from E Tenth and Division Sts. to the east line of the Ross Island bridge at Powell Blvd. and Grand Ave., where the main will be split into two 24-in. steel lines to cross the bridge under the sidewalk area and suspended to the bridge. At the west end of the bridge the two lines again merge in a 30-in. cast iron main which hooks up at Mill and Water Sts. with the 32-inch supply line from one of the reservoirs in the city park.

DENVER, Colo.—Until 2 P. M., Jan. 15, bids will be received by the U. S. Bureau of Reclamation, 1441 Welton St., Denver, for the fabrication and erection of two riveted plate steel tanks for water supply, Boulder City, Nevada, on the Boulder Canyon project. One tank will be 100 feet in diameter and 35 feet high, the other tank will be 30 feet in diameter and 15 feet high. Both tanks will be erected at the edge of the townsite of Boulder City. The city is located about 28 miles SE of Las Vegas. The estimated quantities of metal work involved are:

- 100 ft. x 35 ft. tank, 420,000 lbs.
 - 30 ft. x 15 ft. 9-in. tank, 26,300 lbs.
- The tanks will be erected on oiled sand foundation constructed in advance by the government. Plans and specifications may be obtained by prospective bidders without charge. Proposal guarantee, 10%. R. F. Walter, chief engineer. Plans may be obtained from the office of the bureau at Las Vegas, Nev., or Denver, Colo. Spec. No. 500-D.

WALNUT CREEK, Contra Costa Co., Cal.—Election will be held January 7 to vote bonds of \$90,000 in advance construction of a water distributing system to be served from the mains of the California Water Service Corp.

STREETS AND HIGHWAYS

SIERRA COUNTY, Cal.—Until Jan. 20, 2 P. M. (date extended from Jan. 15) bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading and placing crushed rock surfacing on Section No. 3, Shady Flat, Doonick and 12, Yuba Pass National Forest Highway, 4.14 miles in length. Project involves:

- (1) 28 acres clearing;
- (2) 278,320 sta. yds. overhaul;
- (3) 72 cu. yds. concrete;
- (4) 282 cu. yds. C. R. masonry;
- (5) 280 cu. yds. rip-rap;
- (6) 148,000 cu. yds. excav. unclass.;
- (7) 6700 cu. yds. crushed rock surf.;
- (8) 3120 lbs. reinf. steel;
- (9) 1492 ft. corr. metal pipe;
- (10) 350 cu. yds. hand placed embankment.

Plans may be obtained at the office of the engineer, C. H. Sweetser, upon deposit of \$10. Proposal guaranty, 5%.

OAKLAND, Cal.—Until January 15, 12 noon, bids will be received by F. C. Merritt, city clerk, to improve portions of 8th St., Fallon St. and the extension of 10th St. This is a cash job. Alternative bids will be received: "PROPOSITION A." For grading, curbing, guttering, constructing an asphaltic concrete pavement, resurfacing existing pavement with an asphaltic concrete wearing surface, constructing cement sidewalks, manholes with inlet tops, and a wooden culvert, and constructing penetration macadam pavements consisting of a macadam base, 5-in. in thickness, and a hot oil penetration macadam top course. "PROPOSITION B." For the construction of the work mentioned un-

- der "Proposition A," except that the penetration macadam pavement shall have an emulsified road oil penetration macadam top course.
- (1) 7,548 cu. yds. fill;
 - (2) 1,336 cu. yds. excavation;
 - (3) 100 cu. yds. material in excavation below subgrade to be removed and replaced with filling material;
 - (4) 322 lin. ft. wood curb;
 - (5) 4,779 lin. ft. conc. curb;
 - (6) 4,781 sq. ft. conc. gutter;
 - (7) 3,255 sq. ft. asphaltic concrete pave. (asphaltic concrete surf. course, 2-in. thick, laid upon a Portland cement conc. foundation, 6-in. thick);
 - (8) 127,088 sq. ft. penetration macadam pavement;
 - (9) 2,411 sq. ft. existing pave. to be resurfaced with asph. conc.
- (10) 21,662 sq. ft. cem. sidewalk;
- (11) 235 lin. ft. 6-inch by 22-inch wooden culvert;
- (12) 2 manholes with inlet tops (24-in. opening).
- Certified check 10% payable to city required with bid. Plans obtainable from office of city clerk, Walter N. Frickstad, city engineer.

- OAKLAND, Cal.—Heafey-Moore, 344 High St., Oakland, at \$32,304.94 submitted low bid to city council to improve portions of Hampton Rd., Liggett Dr., Estate Dr., Sims Dr. and Pershing Dr., Central-California Roads Co., Oakland, only other bidder at \$34,047.62. Following is a complete list of unit bids received:
- (1) 9,874 cu. yds. excavation;
 - (2) 6,364 lin. ft. conc. curb;
 - (3) 105,693 sq. ft. concrete pavement;
 - (4) 14 lin. ft. 8-in. x 24-in. corr. iron and concrete culvert;
 - (5) 17 lin. ft. 8-in. x 23-in. do.;
 - (6) 34 lin. ft. 10-in. reinf. conc. pipe conduit with concrete covering;
 - (7) 28 lin. ft. 10-in. reinf. conc. pipe conduit without conc. covering;
 - (8) 69 lin. ft. 12-in. do.;
 - (9) 47 lin. ft. 15-in. reinf. conc. pipe conduit with concrete covering;
 - (10) 208 lin. ft. 15-in. reinf. conc. pipe conduit without conc. covering;
 - (11) 4 concrete handholes with c. i. covers;
 - (12) 3 storm water inlets, 34-inch openings.

City will pay one-half the cost of the storm water drainage system from General Fund. Improvement Act 1913.

Heafey-Moore Cent'l Calif.

(1)	.....	\$ .62	\$.335
(2)	.....	.42	.21
(3)	.....	.21	.215
(4)	.....	4.80	3.75
(5)	.....	4.80	4.30
(6)	.....	2.40	2.60
(7)	.....	1.80	1.45
(8)	.....	2.10	1.70
(9)	.....	3.25	2.50
(10)	.....	2.40	2.00

- (11) 18.00 14.06
 - (12) 55.00 55.00
- OAKLAND, Cal.—City council declares intention to improve Johnston Drive from Estates Drive southeasterly. Project involves:
- (1) 6,246 cu. yds. excavation;
 - (2) 1,988 lin. ft. concrete curb;
 - (3) 29,780 sq. ft. concrete pavement;
 - (4) 4,954 sq. ft. cement sidewalks.
- 1911 Act. Hearing January 22 F. C. Merritt, city clerk. Walter N. Frickstad, city engineer.

NEVADA COUNTY, Cal.—Fredrickson & Watson and Fredrickson Bros., 354 Hobart St., Oakland, at \$92,012 awarded contract by State Highway Commission to grade 7.4 miles between 1 mile west of Washington Rd. and 1/2 mile east of Summit.

- MENLO PARK, San Mateo Co., Cal.—Until January 13, bids will be received by Fannie I. Kurtz, city clerk (30-3) to improve College Avenue and Cambridge Ave. from Arbor Road to El Camino Real; Harvard Ave. bet. University Drive and El Camino Real; University Drive from Middle Ave. to Stanford Ave.; Yale Road bet. Middle Avenue and Stanford Ave.; Princeton Road bet. College and Stanford Ave., including all street intersections. Project involves:
- (a) 300,000 cu. yds. grading;
 - (b) 670,400 sq. ft. 1 1/2-inch emulsified asphalt surface pavement on 4-in. macadam base;
 - (c) 32,000 lin. ft. concrete curb;
 - (d) 220 water service connections.
- 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk and obtainable from Bert J. Mehl, city engineer.

STOCKTON, San Joaquin Co., Cal.—County Surveyor Julius B. Manthey completing plans for 4.7 miles of road between Farmington and Belota and for the construction of two small bridges; total cost, \$40,000. Oil macadam pavement will be specified.

STOCKTON, San Joaquin Co., Cal.—County Surveyor Julius B. Manthey preparing specifications for oil macadam paving on 3 miles of Rhoden road from Waterloo to Linden and in Harney Lane between Lower Sacramento road and Cherokee Lane; estimated cost \$20,000.

YREKA, Siskiyou Co., Calif.—City council will start proceedings shortly for an extensive street paving program. Streets to be paved are east of Gold and south of Mine St.

FRESNO, Fresno Co., Calif.—Associated Oil Co., Associated Oil Bldg., San Francisco, at 40¢ per barrel awarded contract by county supervisors to furnish from 125,000 to 175,000 barrels of oil for use on county highway system during the current year.

CONTRACTORS' MACHINE WORKS
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OAKLAND, Calif.—City council declares intention to improve portions of E 8th St., E 10th St., 3rd Ave., 5th Ave., 6th Ave. and 7th Ave., involving:

- (1) 351,339 sq. ft. grading;
 - (2) 7,947 lin. ft. conc. with steel curb guard;
 - (3) 293,920 sq. ft. conc. pavement;
 - (4) 22,663 sq. ft. cement sidewalk;
 - (5) 3,576 sq. ft. concrete driveways;
 - (6) 261 lin. ft. of 8x20-in. corr. iron and conc. culvert;
 - (7) 4 cast iron handholes;
 - (8) 66 lin. ft. 10-inch vit. pipe conduit;
 - (9) 38 lin. ft. 12-in. do.;
 - (10) 1 catchbasin (34-inch opening);
 - (11) 1 catchbasin (21-inch opening);
 - (12) 280 lin. ft. 8-in. vit. pipe sewer (13) 1 lamphole.
- City will pay 2% of cost from the Treasury. Hearing January 15. Frank C. Merritt, city clerk. Walter N. Frickstad, city engineer.

SAN FRANCISCO.—Until Jan. 21, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Montgomery St. from Union to Greenwich Sts.; Alta St. from Montgomery to point 303 ft. easterly; Filbert St. from Montgomery St. to point 16 ft. westerly and from Montgomery to point 22 ft. easterly; Greenwich St. from Montgomery to point 22 ft. westerly, involving:

- 2,040 cu. yds. excavation;
- 1,285 cu. yds. "E" concrete (retaining walls, balustrade, stairs, fences);
- 15,000 lbs. reinforcing steel;
- 1,540 lin. ft. 4x4-in. reinf. concrete fence, single rail;
- 23,600 sq. ft. 6-in. "E" concrete pavement;
- 11,200 sq. ft. 8-in. waterbound macadam base and oiled surface;
- 6 tons asphalt concrete conform pavement;
- 2,740 lin. ft. armored concrete curb;
- 6,990 sq. ft. 1-course concrete sidewalk;
- 250 lin. ft. 4x16-in. redwood curb;
- 33 in. ft. wood guard rail, heavy type;
- 450 lin. ft. wood fence, light type;
- 190 lin. ft. wood bulkhead;
- 110 lin. ft. 2-pipe railing concrete posts;
- 3 9-unit rod warning reflectors;
- 810 lin. ft. 8-in. vitrified sewer;
- 540 lin. ft. 12-in. do.;
- 20 in. ft. class B 8-in. cast iron sewer;
- 35 lin. ft. class E 12-in. do.;
- 140 lin. ft. six x inch vitrified side sewer;
- 32 6x6-in. Y's or T's;
- 10 12x6-in. do.;
- 120 lin. ft. 12-in. vitrified culvert;
- 15 brick manholes;
- 6 brick catchbasins;
- 2 storm water inlets;
- 1 lighting system (complete).

Work under Street Imp. Ordinance of 1918. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN ANSELMO, Marin Co., Cal.—Town trustees have started proceedings to improve Essex St., including sewers. The street will be improved from the highway to the Ancha Vista Hotel.

OAKLAND, Calif.—City council declares intention to improve Patterson Ave. adjacent to Harbor View Ave., involving grading, pave., curbs, gutters and walk, sewer with manhole, lamphole and wye branches. 1911 Act. Hearing January 29. Frank C. Merritt, city clerk. Walter N. Frickstad, city engineer.

SANTA CLARA, Santa Clara Co., Cal.—Until February 2, 8:00 P. M., bids will be received by A. J. Cornin, city clerk, to improve approximately 80 blocks of streets, as follows:

- (23-1) Bellamy street and Campbell Ave., involving grading, asphaltic concrete pavement laid on layer of quarry waste, Portland cement concrete sidewalks, curbs and gutters. Act 1911. Imp. Act 1915.
- (23-2) Harrison, Lewis, Scott, Reeve, Wistar, Monroe, Jackson, Washington Pierce, Benton Sts and Railroad Ave. involving grading; asphaltic concrete pavement laid on a layer of quarry waste; Portland cement concrete curbs drop curbs, gutters, sidewalks and driveways; vit. clay pipe, sanitary sewers and Wye branches; laterals; sanitary sewer manholes. Bond Act 1915. Imp. Act 1911.
- (21-D) Santa Clara, Market, Poplar Sherwood, Isabella and Main Sts. and The Alameda involving grading, asphaltic concrete pavement on layer of quarry waste, Portland cement concrete curbs, drop curbs, gutters, sidewalks and driveways, vitrified clay pipe main sanitary sewers, vit. clay pipe Wye branches, vit. clay pipe sewer laterals, brick manholes, cast iron frames and covers. 1911 Act. 1915 Bond Act.

Certified check 10% payable to city required with bid. Plans on file in office of clerk. Geo. Sullivan, city engineer.

WANTED

TO PURCHASE used Linn Tractor Truck. Lidal-Wiley, Inc., 208 Columbia St., Seattle Washington.

McHUGH OF SAN FRANCISCO AWARDED EAST BAY BRIDGE JOB

OAKLAND, Cal.—Peter McHugh, 300 Valdez Ave., San Francisco, at \$9,433 awarded contract by county supervisors to construct reinforced concrete culvert on the Alvarado-Centerville road. Estimated cost \$10,000. Project involves:

- (1) 576 cu. yds. excavation for structure, complete;
 - (2) 340 cu. yds. Portland cement concrete in structure in place;
 - (3) 62,000 pounds reinforcing steel in place;
 - (4) remove existing bridge.
- Complete list of unit bids follows:

(A) Peter McHugh, S. F.....	9,433	(F) A. A. Bruce and Sons,							
(B) Lee J. Immel, Berkeley.....	9,484	(G) Pleasanton.....	11,514						
(C) Eodenhamer Const. Co.,		(H) Searrino & Sneed Berk-							
Oakland.....	9,644	keley.....	12,375						
(D) W. B. Lee, San Leandro.....	9,666	(I) Nat Lena, Alameda.....	13,995						
(E) George Hudson, Oakland.....	9,981	(J) O. G. Ritchie, San Jose.....	14,359						
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1) ...\$.57	1.00	1.50	1.15	1.20	1.00	1.50	3.43	3.43	2.50
(2) ...	18.35	16.60	17.00	15.30	17.75	19.00	19.20	17.15	22.25
(3)04	.04	.04	.043	.043	.0475	.0475	.0481	.045
(4) ...	350.00	750.00	300.00	1100.00	900.00	1964.00	2000.00	3179.00	25.00

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finishing roadway. fences, 213 lin. ft. laminated timber guard rail, 16 monuments, 156 sta.

OAKLAND, Cal.—City council declares intention to construct cement sidewalks in portions of 92nd Ave. bet. A and G Sts. 1911 Act. Hearing Jan. 22. Frank C. Merritt, city clerk. W. N. Frickstad, city engineer.

OAKLAND, Cal.—Heafey-Moore Co. 344 High St., Oakland, at 7½¢ per gal. submitted only bid to East Bay Municipal Utility District to furnish and deliver 30,000 gals. Grade "E" hot asphalt. Total bid \$2550. Taken under advisement.

OAKLAND, Calif.—W. H. Larson, 2650 Curtis St., Sacramento, at 44.3¢ sq. ft. submitted low bid to East Bay Municipal Utility District, for 40,000 sq. ft. asphaltic street paving. Hutchinson Co., Oakland, at 50¢ sq. ft. only other bidder. Taken under advisement.

SAN MATEO, San Mateo Co., Cal.—City council will start proceedings at once to widen B street from Baldwin to Ninth avenues including installation of an electroliner system; estimated cost \$75,000. Street will be widened from 46 feet to 52 feet.

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on January 28, 1931, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

Los Angeles County, a bridge across Topanga Creek about 4 miles north of Santa Monica (VII-L.A.-60-B), to be widened by constructing eight 27-foot timber spans on pile bents adjoining the existing concrete bridge and grading and surfacing approaches with asphalt concrete, also a bridge across Las Flores Creek about 7 miles north of Santa Monica (VII-L.A.-60-A), to be widened by constructing two 26-foot reinforced concrete girder spans on a concrete pier and concrete abutments and grading and surfacing approaches with asphalt concrete.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

C. H. PURCELL,
State Highway Engineer.
Dated: December 30, 1930.

NOTICE TO CONTRACTORS

General, Mechanical and Electrical Work

SEALED BIDS will be received by Geo. B. McDougall, State Architect, Public Works Building, 11th and P Streets, Sacramento, California, up to 2 o'clock P. M., Tuesday, February 3, 1931, said bids thereafter on said day to be publicly opened and read for the erection and completion of Ward #7, Mendocino State Hospital, Talmage, California, in accordance with plans and specifications therefor.

The work consist of 6 one-story dormitories and connecting arcade, the buildings being of reinforced concrete with tile and wood partitions, wood roof construction, and tile roof similar to the existing buildings. The floor area of the buildings is approximately 10,000 square feet and of the arcade 4000 square feet.

Separate bids will be entertained as follows:

1. General Work.
2. Electrical Work.
3. Plumbing, Heating and Ventilation Work.
4. Complete Mechanical, including Plumbing, Heating, Ventilating, and Electrical Work.

The "General Work" bid will embrace all branches of work other than segregated above. Contractors must state clearly in their application the particular segregation of work that they desire plans for.

Plans and specifications are on file for examination in the office of the Division of Architecture, Public Works Building, Sacramento, and also at Room 1025 Associated Realty Building, Los Angeles, and at the principal California Cities Builders' Exchange offices.

Plans, specifications, and proposal forms may be secured by licensed Contractors who have qualified or who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

Bids will not be accepted from a Contractor to whom a proposal form has not been issued and all bids must be on proposal forms supplied by the State.

Requests for plans shall be accompanied by a deposit of twenty-five (\$25.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition, at Sacramento Office of the Division within 30 days after opening bids, otherwise it will be forfeited to the State.

All bids must be filed at the office of the State Architect on or before the time heretofore stated and in accord-

ance with the "Rules for Bidding" accompanying the proposal form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the "State Engineer, Department of Public Works," in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, Department of Public Works, reserves the right to reject any or all bids and to waive any informality in any bid received.

DEPARTMENT OF PUBLIC WORKS,
DIVISION OF ARCHITECTURE,
GEO. B. McDOUGALL,
State Architect.

W. E. GARRISON,
Director of Public Works.

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on January 21, 1931, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highway, as follows:

Imperial County, between Trifolium Canal and Kane Springs (VIII-IMP-26-B), about six and three-tenths (6.3) miles in length, to be graded and paved with asphalt concrete.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed

for the best interests of the State.
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
 C. H. PURCELL,
 State Highway Engineer.
 Dated December 23, 1930.

HOME BUILDING BOOKLET AVAILABLE

"Light Frame House Construction," is the title of a 206-page, illustrated booklet, prepared jointly by the National Committee on Wood Utilization of the Department of Commerce and the Federal Board for Vocational Education, and now available for distribution.

While this booklet is intended primarily for carpenters interested in the technical phases of dwelling construction, and is endorsed by the United Brotherhood of Carpenters and Joiners of America, it contains in usable form information constantly needed by the contractor and builder. For instance, the tables in the booklet covering column girder, joist, and rafter sizes for various loads have been so simplified as to make immediately available figures which might otherwise require hours to compute.

Floor loads are discussed not only as their effect on the size of joists, but also on the size of girders. Live and dead loads in various parts of the house from the first floor to the attic, are presented in tabular form.

The strength and rigidity values of various methods of bracing in construction, from horizontal sheathing, cut-in and let-in bracing to diagonal sheathing, as determined by experiment, as given consideration in the booklet. The comparative values of insulating materials, and the air-infiltration through different types of building paper are also presented.

Among other subjects of interest to contractors and builders, included in the publication may be mentioned: the effects of cuts in strength of both room joists, framing over openings, the comparative values of edge and flat-grained lumber, physical characteristics of wood including factors determining strength, unfounded beliefs in regard to wood, firestopping, interior trim, and the latest standards for lumber grading.

This publication, it is expected, will be in demand not only by contractors and builders but also by carpenters, home owners, and other groups interested in the various details involved in dwelling construction. It may be obtained at a nominal price from branch offices of the Department of Commerce, located in the principal cities, or from the Superintendent of Documents, Government printing office, Washington, D. C.

A. S. C. E. ELECTS OFFICERS FOR 1931

Leon B. Reynolds of the department of civil engineers, Stanford University, was elected president of the San Francisco Section, American Society of Civil Engineers at the annual meeting of that body last month. H. H. Hall, chief engineer of the Standard Oil Company, was elected vice-president and Harold B. Hamill, consulting engineer, secretary-treasurer.

The section voted to approve the action of the San Diego section in condemning the advertising for bids for engineering services by the city of San Diego.

Dexter S. Kimball, dean of engineering, Cornell University, was the principal speaker. His subject was "Technological Unemployment."

SEWER BIDS OPENED BY OAKLAND CITY COUNCIL

OAKLAND, Cal.—Following is a complete list of unit bids received by city council to construct drainage structures in portions of E 8th St. and E 10th St., and certain streets and avenues adjacent thereto. Project involves:

- (1) 375 ft. 10-in. pipe conduit;
 - (2) 552 ft. 12-in. do.;
 - (3) 526 ft. 15-in. do.;
 - (4) 320 ft. 18-in. do.;
 - (5) 930 ft. 24-in. do.;
 - (6) 300 ft. 15-in. pipe sewer;
 - (7) 289 ft. 18-in. do.;
 - (8) 6 manholes, standard tops;
 - (9) 4 manholes, inlet top, 34-in.;
 - (10) 4 catchbasins, 34-in.;
 - (11) 2 catchbasins, 21-in.;
 - (12) 4 storm water inlets, 34-in.;
 - (13) 5 storm water inlets, 21-in.
- (A) Oakland Sewer Const. Co., Oakland; (F) J. T. Clunk;
- (B) Robt. B. McNair, Oakland; (F) Fredrickson & Watson, Oakland
- (C) R. H. Downer, Oakland; (G) W. J. Tobin, Oakland;
- (D) I. W. Cahlan and Frank Ponte, (H) L. L. Page.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)	\$1.50	\$1.45	\$1.90	\$1.25	\$1.28	\$1.50	\$1.45	\$2.40
(2)	1.60	1.35	2.00	1.50	1.52	1.50	1.50	2.70
(3)	2.00	1.55	2.40	2.50	1.94	1.60	1.78	2.40
(4)	2.31	2.20	2.75	3.25	2.50	4.00	2.48	3.75
(5)	2.69	3.30	4.46	4.60	3.30	5.00	3.17	5.30
(6)	1.57	1.55	2.25	3.00	1.94	1.60	1.78	3.40
(7)	2.12	2.20	2.70	3.50	2.30	4.00	2.48	3.75
(8)	65.00	70.00	85.00	75.00	67.00	70.00	70.00	85.00
(9)	65.00	85.00	80.00	75.00	67.00	80.00	80.00	85.00
(10)	50.00	66.00	60.00	39.00	70.00	60.00	30.00	65.00
(11)	50.00	56.00	69.00	24.00	50.00	50.00	70.00	60.00
(12)	40.00	41.00	40.00	39.00	60.00	40.00	60.00	50.00
(13)	38.00	24.50	40.00	24.00	50.00	30.00	40.00	50.00

OAKLAND CITY COUNCIL OPENS BIDS TO IMPROVE EAST 8th ST

OAKLAND, Cal.—Following is a complete list of unit bids received by city council to construct sewers in portion of Foothill Blvd., 84th Ave., Iris St., Dowling St. and Blanche St. Project involves:

- (a) 285 lin. ft. 24-in. pipe sewer;
- (b) 606 lin. ft. 8-in. pipe sewer;
- (c) 6 manholes.
- (1) Geo. G. DeGolyer, Oakland;
- (2) T. E. Horan;
- (3) Manuel Costa;
- (4) Fredrickson & Watson, Oakland;
- (5) H. H. Downer, Oakland;
- (6) Cahlan & Ponte, Oakland;
- (7) Oakland Sewer Const. Co., Oakland
- (8) Robt. B. McNair, Oakland;
- (9) V. B. Lee;
- (10) W. J. Tobin, Oakland.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
(a)	\$4.00	\$4.25	\$5.00	\$4.75	\$3.75	\$4.00	\$3.54	\$3.96	\$4.10	\$5.60
(b)	1.25	1.50	1.25	1.25	.80	2.00	1.22	1.10	1.62	1.40
(c)	55.00	70.00	42.00	60.00	75.00	45.00	50.00	60.50	65.00	70.00

VALVE BIDS OPENED BY EAST BAY MUNICIPAL UTILITY DIST.

OAKLAND, Cal.—Following is a complete tabulation of bids received by the East Bay Municipal Utility District to furnish and deliver gate valves for distribution system, all bids being taken under advisement:

- (1) Rensselaer Valve Co., Troy, N. Y.
- (2) Tay-Halbrook Inc., San Francisco
- (3) Grinnell Co. of the Pacific, San Francisco, (a)
- (4) Water Works Supply Co., San Francisco
- (5) Kennedy Valve Mfg. Co., New York
- (6) Crane Co., Oakland (b)
- (7) Calif. Pipe & Supply Co., Los Angeles (c)
- (8) Darling Valve & Mfg. Co., Los Angeles
- (9) C. G. Claussen Co., Inc., Oakland (d)

	400 Valves 6-in. dia.	50 Valves 8-in. dia.	20 Valves 10-in. dia.	25 Valves 12-in. dia.	5 Valves 16-in. dia.	Total Items 1 to 5	Total All Items lump sum
(1)	\$3800	\$1650.00	\$ 900.00	\$1450.00	\$625.00	\$12,425.00	\$ 8,350.00
(2)	5476	1069.50	723.20	1123.50	471.25	8,968.45	8,968.45
(3)	6940	1445.00	766.00	1321.25	737.50	11,209.75	8,984.50
(4)	5776	1247.50	724.20	1400.00	593.15	9,740.85	9,156.29
(5)	5584	1220.00	711.00	1246.75	542.50	9,304.00	9,200.00
(6)	6380	1275.00	750.00	1187.00	605.00	10,197.50	10,197.50
(7)	6400	1400.00	840.00	1500.00	600.00	10,740.00	10,740.00
(8)	5726	1716.00	1040.00	1750.00	860.00	14,102.00	14,102.00

- (a) Prices based on entire order only.
- (b) 2% discount allowed for payment in 20 days.
- (c) 2% discount allowed for payment in 10 days.
- (d) Late delivery condition.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
1679	Harband	Schulz	6000
1671	Burlingame	Williams	10000
1672	National	Owner	9500
1673	Graham	Brass	4500
1674	Stoneson	Owner	7000
1675	General	Reavey	2000
1	Johnson	Owner	1000
2	Doelger	Owner	4800
3	Struthers	Conway	3500
4	McElroy	Owner	1709
5	Warner	Electrical	1500
6	Bjorkman	Owner	3500
7	Warner	Electrical	1500
8	Anderson	Owner	4000
9	Fay	Magill	2000
10	Suttich	Furns	1300
11	Steinberg	American	9000
12	Ferrando	Silva	2000
13	Sullivan	Owner	4000
14	Harder	Owner	3500
15	Mauerer	Carson	2000
16	Halsen	Owner	4000
17	Grosman	Owner	4000
18	Laguens	Larsen	10000
19	Eggert	Munster	4000
20	Arnott	Arnott	8000
21	Hornung	Owner	8000
22	Johnson	Owner	2000
23	Shell	Prom	5000
24	Eureka	Mattock	35000
25	Poster	Murray	3890
26	McDonough	Owner	9000
27	Pendleton	Bohr	1000
28	Reynolds	Todhunter	1000

INDUSTRIAL BLDG.

(1679) N FOLSOM 50 W Rausch; one-story and mezzanine class C light industrial building.
 Owner—J. Harband, 1053 Howard St.
 Engineer—A. C. Griewank, 208 Mission Street.
 Contractor—Schulz Const. Co., 1 Hillcrest Blvd., Millbrae Highlands. \$6000

RESIDENCE

(1671) NE 21st and SANCHEZ Sts.; two-story and basement frame residence.
 Owner—Burlingame Corp., 25 Sansome St.
 Plans by R. B. Coleman, 1404 Broadway, Burlingame.
 Contractor—G. W. Williams Co., Ltd., 1404 Broadway, Burlingame. \$10,000

ALTERATIONS

(1672) 1637-39 FILLMORE ST.; alterations and additions to store.
 Owner—National Dollar Stores, premises.
 Architect—Bernard Joseph, 74 New Montgomery St. \$9500

ALTERATIONS

(1673) 533 SUTTER ST.; alterations to store front and interior.
 Owner—L. E. Graham, 441 Post St.
 Plans by W. Lamb, 441 Post St.
 Contractor—Brass & Kuhn Co., 1919 Bryant St. \$4500

DWELLINGS

(1674) S SENECA 295 E Delano; two one-story and basement frame dwellings.
 Owner—Stoneson Bros. & Thorinson, 279 Yerba Buena Ave.
 Plans by Owners. \$7000

SERVICE STATION

(1675) SW COLE and Frederick Sts.; one-story steel frame service station & 1-story steel frame shelter.

Owner—General Petroleum Corp., 210 Sansome St.
 Plans by Eng. Dept. of Owner.
 Contractor—Reavey & Spiveck, Ltd., Shell Bldg. \$3000

ALTERATIONS

(1) S OAKDALE 300 E Selby. Alter for underpinning.
 Owner—A. E. Johnson, 355 Brentwood Ave., San Francisco. \$1000
 Architect—Not Given.

DWELLING

(2) SW THIRTY-FIRST AVE. AND Kirkham. One-story and basement frame dwelling.
 Owner—H Doelger, 300 Judah St., San Francisco. \$4800
 Architect—Not Given.

DWELLING

(3) NW TARA 149 SW Niagra. One-story and basement frame dwelling.
 Owner—M. T. Struthers, 2849 Fillmore St., San Francisco.
 Architect—Not Given.
 Contractor—G. J. Conway, 2723 Mission St., San Francisco. \$3500

ALTERATIONS

(4) NO. 1245 EIGHTEENTH AVE. Alter flats.
 Owner—Mrs. T. R. Manning and W. J. McElroy, Premises.
 Architect—Not Given. \$1709

ALTERATIONS

(5) NO. 1125 MARKET. Alterations to face of marquee.
 Owner—Warner Bros. Theatre, Prem.
 Architect—Not Given.
 Contractor—Electrical Products Corp., 255 Golden Gate Ave., San Francisco. \$1500

DWELLING

(6) NE PALOU 125 NW Quint. One-story and basement frame dwelling.
 Owner—V Bjorkman, 3845 Mission St., San Francisco.
 Architect—Not Given. \$3500

SIGN

(7) NO. 1125 MARKET ST. Electric sign.
 Owner—Warner Bros. Theatre, Prem.
 Architect—Not Given.
 Contractor—Electrical Products Corp., 255 Golden Gate Ave., San Francisco. \$1500

DWELLING

(8) E 27th AVE. 200 S Taraval; one-story and basement frame dwelling.

Owner—N. W. Anderson, 2427 24th Avenue.
 Architect—None. \$4000

STOLE

(9) S ORTEGA 45 E 19th Ave.; one-story frame store.
 Owner—P. B. and K. Kay.
 Plans by Builder.
 Contractor—C. T. Magill, 185 19th Avenue. \$2000

OFFICES

(10) N OAKDALE 125 W Fitch; one-story frame offices.
 Owner—N. J. Suttich, 5250 3rd St.
 Architect—Not Given.
 Contractor—R. Burns, Thornton Ave. and Lucy St. \$1300

ALTERATIONS

(11) 961 MARKET ST.; alterations to store front.
 Owner—Steinberg's, 961 Market St.
 Plans by W. Roselyn, 2800 29th St.
 Contractor—American Woodworking Co., 2800 29th St. \$3000

DWELLING

(12) N SWEENEY 35 S Eoylston; 1-story and basement frame dwelling.
 Owner—E. Ferrando, 2554 San Bruno Avenue.
 Architect—Not Given.
 Contractor—A. Silva, 6 Merrill St. \$2000

DWELLING

(13) W MONCADA 86 N Paloma; 1-story and basement frame dwelling.
 Owner and Builder—T. J. Sullivan, 1967 Ocean Ave.
 Plans by E. L. Boldemann, 1967 Ocean Avenue. \$4000

DWELLING

(14) N ARLETA 104 E Rutland; 1-story and basement frame dwelling.
 Owner—J. H. Harder, 805 Vermont St.
 Plans by Owner. \$3500

REPAIRS

(15) 2971 CALIFORNIA ST.; repair fire damage.
 Owner—Mrs. L. Mauerer, 2921 California Street.
 Architect—Not Given.
 Contractor—O. Carson, 666 Mission St. \$5000

DWELLINGS

(16) E 19th AVE. 220 S Lawton St. two 1-story and basement frame dwellings.
 Owner and Builder—A. Halsen, 2427 25th Avenue.
 Architect—Not Given. each \$4000

DWELLING

(17) SE TINGLEY and Alamy; 1-story and basement frame dwelling.
 Owner and Builder—W. E. Grosman, 47 Curtis St.
 Architect—Not Given. \$4000

DWELLINGS

(18) S DARIEN WAY 85 E Mano; Drive; two 1-story and basement frame dwellings.
 Owner—Laguens & Larsen, 369 - 365 Ashton Avenue.
 Architect—Not Given.
 Contractor—S. Larsen, 363 5th Avenue. each \$5000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - - California

ALTERATIONS

(19) 1288 MISSION ST.; alterations to repair fire damages.
 Owner—H. & H. Eggert, 350 Post St.
 Architect—Not Given.
 Contractor—J. H. Munster, 1530 Broderick St. \$4000

DWELLINGS

(20) E 10th AVE. 215 N Santiago; 2-1-story and basement frame dwelling.
 Owner—J. A. Arnott, 633 Taraval St.
 Plans by Owner.
 Contractor—J. A. Arnott & Son, 633 Taraval St. each \$4000

ALTERATIONS

(21) 165 VALENCIA ST.; carpenter, plumbing and heating work.
 Owner—C. Hornung, 295 Fell St.
 Plans by Owner. \$9000

DWELLING

(22) W 32nd AVE. 225 N Balboa; 1-story and basement frame dwelling.
 Owner—A. Conrad Johnson, 1835 5th Avenue.
 Architect—Not Given. \$3000

SERVICE STATION

(23) SE FELL and OCTAVIA STS.; one-story class C service station.
 Owner—Shell Oil Co., 100 Bush St.
 Plans by T. L. Longham, 114 Sansome Street.
 Contractor—P. Prom, 114 Sansome St. \$5000

BUILDING

(24) NE POST and SCOTT STS.; 3-story class C building.
 Owner—Eureka Benevolent Society.
 Architect—S. L. Hyman and A. Appleton, 68 Post St.
 Contractor—A. F. and C. W. Mattock, 212 Clara St. \$35,000

ALTERATIONS

(25) 2263 CHESTNUT ST.; alterations for restaurant.
 Owner—Foster Lunch system, 986 Mission St.
 Plans by Mr. Murray.
 Contractor—A. B. Murray, 525 4th St. \$3890

STORES

(26) W 25th AVE. 125 N Kirkham; two 1-story and basement frame stores.
 Owner and Builder—J. J. McDonough, 1226 17th Ave.
 Plans by Owner. each \$4500

ALTERATIONS

(27) 1600 VAN NESS AVE.; alterations to show room.
 Owner—H. A. Pendleton, 16 00 Van Ness Ave.
 Architect—Not Given.
 Contractor—A. J. Eohr, 1225 Oak St. \$1000

REPAIRS

(28) 173 12th AVENUE; repair fire damage.
 Owner—Mrs. Reynolds, 5754 Geary St.
 Architect—Not Given.
 Contractor—G. C. Todhunter, 1 0 8 8 Ashbury St. \$1000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No. Owner	Contractor	Amt.
255 Poultry	Sommarstrom	\$9000
4 Burlingame	Williams	500
5 Fignone	Cuneo	11500

OFFICE & WAREHOUSE

(288) LOCATION OMITTED; all work on office and warehouse building.
 Owner—Poultry Producers of Central California.
 Architect—Not Given.
 Contractor—Sommarstrom Bros. Co., 35th and San Pablo Ave., Oakland.

Filed Dec. 30, '30. Dated Dec. 27, '30.
 Lumber and cement paid for \$12,000
 Foundation piers poured..... 12,000
 Walls to 2nd floor level up..... 12,000
 Walls 2nd floor level poured 12,000
 Completed..... 12,000
 Usual 35 days..... 17,000

TOTAL COST, \$89,000.
 Sureties, Pacific Indemnity Co. Limit, 120 days.
 1 Boyd Mattock 3538

ALTERATIONS

(1) SW THIRD 70 SE Market SE 25 x SW 75; alterations and additions to building.
 Owner—Alexander Boyd Estate.
 Architect—G. A. Applegarth, C1 a u s Spreckels Bldg.
 Contractor—A. F. and C. W. Mattock, 212 Clara St.

Filed Dec. 31, '30. Dated Dec. 26, '31.
 1st and 15th of each month..... 75%
 Usual 35 days..... 25%

TOTAL COST, \$3,538.50
 Sureties, Indemnity Ins. Co. of North America. Plans and Spec. filed.
 2 Railway Express Smith 4700
 3 Wilhelm Lindsay 4950

LATHING, ETC.

(2) 635-647 FOLSOM ST., third floor of garage; all work for partition, ceiling, lathing and plastering.
 Owner—Railway Express Agency, Inc., premises.
 Plans by Jas. H. Humphrey, Supt. of Bldgs. for Owner.
 Contractor—Jan. F. Smith, 271 Minna Street.

Filed Jan. 5, '31. Dated Dec. 12, '30.
 Completed and accepted..... 75%
 Usual 35 days..... 25%

Forfeit, \$40. Limit, 12 days. Plans and Spec. filed.

(3) E GAMBIER 75 N Silliman 25x 95; kind of work omitted.
 Owner—A. L. Wilhelm and K. Boyd.
 Architect—Not Given.
 Contractor—C. T. Lindsay, 1683 27th Avenue.

Filed Jan. 5, '31. Dated Dec. 18, '30.
 Begin March 1, as int on bank loan..... \$11.25
 Begin May 1, until expiration of mortgage..... 33.75
 Begin Aug 1, on note of \$500..... 20.00

TOTAL COST, \$4950
 Limit, 90 days.

RESIDENCE

(4) NE SANCHEZ and 21st Sts. 57x 105; all work for residence and garage.
 Owner—Burlingame Corporation.
 Architect—Not Given.
 Contractor—G. W. Williams Co., Ltd., 1404 Broadway St., Burlingame.

Filed Jan. 6, '31. Dated Dec. 10, '30.
 Frame work up and roof on..... \$32625
 Interior plastering complete & extension brown coated..... 26225
 Completed..... 26225
 Usual 35 days..... 26225

TOTAL COST, \$10,500
 Bond, \$10,500. Sureties, American Bonding Co. Limit, 90 days. Plans and Spec. filed.

APARTMENTS

(5) SE ARMY and Alabama Sts. S 85 E 25 N 83-9 W 25-3; all work on 1-story, basement and garage apartment house except wall beds, shades, wall paper, finish hardware, lighting fixtures, Frigidaire and stoves, steam heating and hot water.
 Owner—L. Fignone, 2003 16th St.
 Architect—G. A. Berger, 309 Valencia.
 Contractor—J. L. Cuneo and F. De Martini, 481 Church St.

Filed Jan. 7, '31. Dated Jan. 2, '31.
 Rough frame up and roof on..... \$2875
 Brown coated..... 2875
 Completed and accepted..... 2875
 Usual 35 days..... 2875

TOTAL COST, \$11,500

Bond, \$5750. Sureties, J. Arata and L. Haeigalupi. Forfeit, \$10. Limit, 90 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
Jan. 2, 1931—2670 PIERCE ST. R P McCulough to A D Dorf.....	Jan. 2, 1931
Dec 31, 1930—E 15th Ave 375 Sq. V center 25x127-6. J Michael and C Bonmer to whom it may concern	Dec 31, 1930
Dec 31, 1930—LOT 6 BLK D map plat showing pin Silver Terrace. Oscar M Gilbert to whom it may concern.....	December 26, 1930
Dec 31, 1930—SE 40th AVENUE and Balboa Addn to Church of Saint Thomas. The Roman Catholic Archbishop of San Francisco to J A Bryan Ltd.....	Dec 29, 1930
Dec 31, 1930—POLK ST and Golden Gate Ave, Service Station No 30. Associated Oil Co to Dave Campbell.....	December 22, 1930
Dec 31, 1930—NE VINCENTE and 153-10 NW 3rd NW 32 x NE 100, blk 56, map Paul Tract Hd Assn. Peter Demetrak and Wm Chimionelli to Hanson Bros.....	Dec 13, 1930
Dec 31, 1930—W 42nd AVE 120 x Judah S 25 x W 120. G and E Rowan to whom it may concern.	Dec 30, 1930
Dec 30, 1930—815 HEAD ST, Ingle-side Terrace. Thos F Smith to A D Dorf.....	December 1, 1930
Dec 30, 1930—W 12th AVE 120 x Taraval St 31-6 x 120. J Mager to whom it may concern.....	December 30, 1930
Dec 30, 1930—S VICENTE 77-6 W 15th Ave W 25 x S 100. J Westerland to whom it may concern.....	December 30, 1930
Dec 30, 1930—LOTS 14 to 19 inc Elk 2948A map Sub No 6, Miraloma Park. Meyer Bros to whom it may concern.....	December 22, 1930
Dec 29, 1930—E 23rd AVENUE 218 N Noriega N 50 x E 120. R F Galli to whom it may concern.....	December 29, 1930
Dec 29, 1930—SE MISSION 125 NE E Excelsior NE 25 x SE 38-8 W and V Torcas to M P Jorgenson.....	December 29, 1930
Dec 29, 1930—W 33rd AVE 225 and 250 S Ulboa S 25 x W 120. F F Balliet to whom it may concern.....	December 27, 1930
Dec 27, 1930—NE MISSION and Virginia Ave, 3339-3349 Mission St. H and C Krug to J D Woodside.....	December 22, 1930
Dec 27, 1930—NE QUESADA and Lane Sts. 25x75. C Fernandez to W E Thomisto.....	December 27, 1930
Dec 26, 1930—LOT 209 Gift Map No 2, known as 749 Mission St. E A Anderson to whom it may concern.....	December 22, 1930
Jan. 5, 1931—NW AVILA 137-6 NE Cervantes Blvd NE 37-6 NW 92.079 W 52.525 SE 128.861 Geo E and A M Pendergast to H W Arrubarrat.....	January 5, 1931
Jan. 5, 1931—NO 216 STANNYAN ST. M F O'Brien to J J Irwin.....	January 3, 1931
Jan. 5, 1931—W SANCHEZ ST 50 S 20th 25x80. J F Kennedy to whom it may concern.....	January 5, 1931
Jan. 5, 1931—LOT 15 BLK E, map addns to Castro St Addn and Glen Park Terrace. O T Svenson to whom it may concern.....	Nov. 4, 1930
Jan. 3, 1931—PT 20 LOTS 25 and 26 Blk 3259 Map Blks 3257,3258 and 3259 Balboa Terrace descd SE Santa Ana Way dist 12 SE from SW line sd lot 25 NE 53 S 61' 27"	

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
1555	Reaves	Wright	1000
1556	Bemis	Owner	2000
1557	Levy	Owner	5000
1	Netherby	Owner	4000
2	Oakland Tribune	Neon	3000
3	Langendorf	Barrett	32000
4	Conlogue	Owner	2100
5	De Nevl	Waldman	4750
6	Netherby	Owner	5000
7	Hink	Anderson	1000
8	Johnson	Owner	1200
9	Duncan	Owner	2900
10	Greene	Rose	1500
11	Rowe	Owner	4150
12	Anderson	Owner	3750
13	Anastasi	Allen	1500
14	Graham	Owner	8000
15	Hertz	Electrical	1650
16	Lodge	Owner	3500
17	Miller	Jensen	20000
18	Carlson	Owner	4000
19	Ellsworth	Anderson	1200

ALTERATIONS
(1555) NO. 3021 BENVENUE AVE., BERKELEY. Alterations. Owner—Mr. Reaves. Architect—Not Given.

(1557) 2161 Wright, 2716 Telegraph Ave., Berkeley. \$1000

RESTAURANT
(1556) NW COR. E 12th Street and 3rd Ave., OAKLAND; one-story restaurant. Owner and Builder—K. E. Bemis, 1962 San Pablo Ave., Oakland. \$2000. Architect—Not Given.

ALTERATIONS
(1557) 459 12TH STREET, OAKLAND alterations. Owner—Levy Estate Co., % Architect. Architect—F. F. Amanades, 1128 Hearst Bldg., San Francisco. \$5000

DWELLING
(1) W PROCTOR AVE., bet. Julia and Modoc Sts., OAKLAND. Two story 6-room dwelling. Owner—W. A. Netherby, 3552 Lyman Road, Oakland. Architect—Not Given. \$4000

SIGNS
(2) SW THIRTEENTH & FRANKLIN STS., OAKLAND. Three electric signs. Owner—Oakland Tribune, Premises. Architect—Not Given. Contractor—Q. R. S. Neon Corp., 206 7th St., San Francisco. \$1000 each

ALTERATIONS
(3) 2029 CHANNING WAY, BERKELEY. Alter Class C bakery. Owner—Langendorf Baking Co., McAllister and Fillmore Sts., San Francisco. Architect—Not Given. Contractor—Barrett & Hill, 918 Harrison St., San Francisco. \$12,000

DWELLING
(4) 1520 HAVENSCOURT BLVD., OAKLAND; one-story five-room dwelling and garage. Owner and Builder—F. W. Conlogue, 2607 64th Ave., Oakland. Architect—Not Given. \$3100

DWELLING
(5) S 59th ST. 500 W Racine, OAKLAND; one-story 6-room dwelling and 1-story garage. Owner—Beatrice De Nevl, 551 59th St., Oakland. Architect—Not Given. Contractor—A. E. Waldman, 321 17th St., Oakland. \$4750

DWELLING
(6) N ESTATES DRIVE 190 E Dawes Drive, OAKLAND; two-story six-room dwelling. Owner and Builder—W. A. Netherby, 3552 Lyman Road, Oakland. Architect—Not Given. \$5000

ALTERATIONS
(7) 2218 SHATTUCK AVE., BERKELEY; alterations. Owner—Hink & Son. Architect—Not Given. Contractor—Anderson & Anderson, 916 Carmel Ave., Berkeley. \$1000

SERVICE STATION
(8) SE COR. HIGH and Archlnth. OAKLAND; 1-story steel service station. Owner and Builder—Albert H. Johnson, 1621 Encinal Ave., Alameda. Architect—Not Given. \$1200

DWELLING
(9) W 80th AVE. 270 N Hillside St., OAKLAND; 1-story 5-room dwelling. Owner and Builder—George Duncan, 2525 78th Ave., Oakland. Architect—Not Given. \$2900

REPAIRS
(10) 7240 CHABOT ROAD, OAKLAND; fire repairs. Owner—B. D. Marx Greene, 7240 Chabot Road, Oakland. Architect—Not Given. Contractor—A. H. Rose, 478 25th St., Oakland. \$1500

DWELLING
(11) S BROCKHURST ST. 210 West West St., OAKLAND; one-story 6-room dwelling and 1-story garage. Owner and Builder—J. J. and P. A. Rowe, 2522 Magnolia St., Oakland. Architect—Not Given. \$4150

DWELLING
(12) NO. 1611 PEARL ST., ALAMEDA. One-story 5-room frame and stucco dwelling. Owner—Walter H. Anderson, 1014 Doris Court, Alameda. Architect—Owner. \$3750

ALTERATIONS
(13) 942 VERNON ST., OAKLAND; alterations. Owner—George Anastasi, San Francisco. Architect—Not Given. Contractor—H. F. Allen, 1700 104th Ave., Oakland. \$1500

APARTMENTS
(14) W CLAREMONT AVE. 170 S Miranda St., OAKLAND; three-story 84-room apartments. Owner and Builder—Lewis Graham, 2227 64th Ave., Oakland. Architect—Not Given. \$50,000

SIGNS
(15) 2045 FRANKLIN ST., OAKLAND; roof sign and electric sign. Owner—Hertz Drive-U-Self Co., 2046 Franklin St., Oakland. Architect—Not Given. Contractor—Electrical Products Corp., 950 30th St., Oakland. \$1650

DWELLING
(16) W 80th AVE. 465 N Hillside St., OAKLAND; one-story five-room dwelling. Owner and Builder—C. F. Lodge, 749 Collier Drive, San Leandro. Architect—Not Given. \$3500

CHAPEL
(17) 2850 TELEGRAPH AVE., OAKLAND; one-story brick chapel. Owner—Grant D. Miller, 2860 Telegraph Ave., Oakland. Architect—Miller & Warnecke, Financial Center Bldg., Oakland. Contractor—Jensen & Pedersen, 3443 Adeline St., Oakland. \$20,000

31° E 100 SW 57.762 m or l N 57° 57' 29.1" W 100 to beg. Castle Bldg Co to Henry Horn.....Dec. 31, 1930
Jan. 3, 1931—NW SAN JUAN AVE and NE line Lot 17 SW 39 N 60-15° 23' 2" W 99.973 NE 35.284 S 63° 22' 20" E 100 to beg Ptn Lot 17 Blk 3258 Map Blks 3257, 3258 and 3259, Balboa Terrace Addition. Castle Bldg Co to Henry Horn.....Dec. 31, 1930
Jan. 3, 1931—LOTS 23 AND 24 BLK 3279, Map Mt Davidson Manor. Castle Bldg Co to Henry Horn.....Dec. 31, 1929
Jan. 3, 1930—N GEARY bet. 23rd and 24th Aves. Roman Catholic Archbishop of San Francisco, to whom it may concern.....Jan. 2, 1931
Jan. 3, 1931 — W TWENTY-SEVENTH AVE 150 S Judah 25x120. F E Almquist to whom it may concern.....Jan. 2, 1931

LIENS FILED

San Francisco County

Jan. 2, 1931 — LOTS 1 TO 10 INCL Blk 4, Heyman Tract No. 2. Rolando Lumber Co vs Heyman Bros C, J, G, B and A Mourgos.....\$314.57
Jan. 2, 1930—LOT 21 BLK 5724, Assessor's Map. Chas R McCormick Lumber Co. of Delaware vs H & C Schwartz and F Hermann.....\$63.29

Jan. 2, 1931—1685 PATOU AVE bet 3rd and Newhall Sts, S Paton 100 from Newhall 25x100. F Quartiroli vs P and A Finn.....\$79.20
Jan. 2, 1931—E PARIS AND Rusla Ave NE 75xSE 25. Harry and Samuel Ginsberg (as Ginsberg Title Co) vs C E Anderson, Antone and T Maffei.....\$55

Dec 31, 1930—SE WOOLSEY 90 and 130 SW Senesct NW 3rd x SE 100. California Concrete Co vs S Makarsen.....\$350
Dec 30, 1930—E 29th AVE 200 S Balboa 25x120. J Elverson and A Roe vs Mrs E A Burke.....\$207
Dec 27, 1930—N WASHINGTON 106-8 1/2 E Lyon E 24-1 1/4 N 127-8 1/4 W 25 S 25 S 102-8 1/4. A E Springer vs J A Lund and C A Pearce.....\$750

Correction in Location.
Jan 5, 1931—NW 22nd and Bartlett 1/2 blk N 22nd 125 N 60-8 1/4 NE 125-2 S 68-1 1/4; W Bartlett 68-1 1/4 N 22nd N 60-7 SE 250-6 1/4 S 60-2 NE 250-5 to beg. Aristo Painting Co vs J Currie, Win H Woodfield Jr, E L Woodfield, S and E Weinstein and A Curtaz.....\$155.70

Jan. 5, 1931—LOTS 1 TO 10 INCL Blk 4, Heyman Tract No. 2. Golden Gate Atlas Materials Co vs Heyman Bros; C, J, Geo, B and A Mourgos.....\$398.55
Jan. 5, 1931—LOTS 1 TO 10 INCL Blk 4, Heyman Tract No. 2. Jas R Williamson vs Heyman Bros C, J, Geo, B and A Mourgos.....\$211.35

RELEASE OF LIENS

San Francisco County

Recorded	Amount
Dec 27, 1930—E 11th AVE 250 N Ortega N 25 x E 120. W B Jefferson as The Great City Lbr Co, F M Hiesing as New Mission Sheet Metal Works, to Paul and Dusine Ackenhell.....Nov 19, 1930	
Dec 27, 1930—E 11th AVE 250 N Ortega N 25 x E 120. Leo Toge, J I Meeks, O G Winch, Standard Shade Co, Frank Menicucci as Arc Electric Co, J D Murphy as Standard Bldg Material Co to K W Oertel and Paul and Dusine Ackenhell.....November 19, 1930	
Dec 27, 1930—1856 11th AVENUE. Richard E Giller to whom it may concern.....November 26, 1930	

(18) NO. 21 ROCK LANE, BERKELEY. One-story 6-room 1-family frame residence. Owner—F. O. Carlson, 1423 Grove St., Berkeley. Architect—Not Given. \$4000

(19) NO. 145 HILLSIDE AVE., PIEDMONT. Fire repairs. Owner—O. Ellsworth, Premise. Architect—Not Given. Contractor—James Anderson, 96 21st Drive, Oakland. \$1200

BUILDING CONTRACTS

ALAMEDA COUNTY		
No. Owner	Contractor	Am't.
1 Regan	Wieslander	765
2 Miller	Jensen	29875

(STOR) PTN LOT 25 BLK 2128, Fruitvale Blvd., Tract, Oakland; general construction on 1-story frame store building. Owner—Pearl Regan. Architect—Not Given. Contractor—John D. Wieslander, 4102 Gilbert St., Oakland. Filed Jan. 2, '31. Dated Dec. 23, '30. When roof is on and bldg. is enclosed \$765
When completed..... 250
Usual 35 days..... 250
TOTAL COST, \$765

ALTERATIONS
(2) 2850 TELEGRAPH AVE., Oakland; alterations and additions to residence and new chapel building. Owner—Grant D. Miller, 2850 Telegraph Ave., Oakland. Architect—Miller and Warnecke, Financial Center Bldg., Oakland. Contractor—Jensen & Pedersen, 3443 Adeline St., Oakland. Filed Jan. 6, '31. Dated Jan. 3, '31. When brick walls of chapel are up..... \$7500
When brown coated..... 7500
When completed..... 7500
Usual 35 days..... 7475
TOTAL COST, \$29,975
Bond, \$29,975. Sureties, Globe Casualty Co. Limit, 90 days. Plans and Spec. filed.

OAKLAND BUILDING SUMMARY

A. S. Holmes, chief building inspector of Oakland, reports the issuance of 247 permits during the month of December, 1930, for improvements involving an expenditure of \$1,063,546. Following is a segregated listing of the construction involved:

Classification of Bldgs.	No.	Permits	Cost
1-story dwellings...	16		\$ 48,600
2-story dwellings...	8		77,250
2-st dwlg & store...	1		3,750
1-st stores	3		2,650
1-st hospital	1		6,800
1-st restaurant	1		2,400
1-st studio	1		2,600
2-st factory	1		5,500
1-st tile shop	1		800
1-st conc theatre	1		787,144
1-st tile garage.....	1		1,000
1-st conc. ser sta.....	1		1,900
1-st conc restaurant ..	1		2,800
1-st conc bank bldg.....	1		12,500
1-st conc garage.....	1		900
1-st br com sta.....	2		700
1-st brick shop.....	2		7,000
1-st brick garage.....	1		700
1-st brick ser sta.....	2		2,300
1-st br dye&cn wks.....	1		1,200
Brick addition	2		4,600
1-st br & tile ser sta ..	2		5,500
1-st steel ser sta.....	1		450
Cooling tower	1		875
Billboards	11		1,775
Electric signs	47		20,854
Roof sign	1		800
1-st garages&sheds	42		8,163
Additions	38		11,651
Alters. & repairs.....	55		43,425
Alters. & repairs.....	55		43,431

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded Accepted
Jan 6, 1931—MUNICIPAL CORPORATION Yard, Berkeley, City of Berkeley to G A Scott.....Dec 30, 1930
Jan 6, 1931—7307 NEY AVE, Oakland. K A Johanson to Self.....January 2, 1931
Jan 5, 1931—LOT 12, Crocker Terrace, Piedmont. A Walter Beam to Axel Cederberg.....Dec 19, 1930
Jan 5, 1931—LOT 118, Frisway Estate in Oak Knoll, Oakland. Oakland Title Insurance & Guaranty Co to Oak Knoll Land Corp.....December 31, 1930
Jan 5, 1931—SW SHATTUCK AVE and Kittredge St, Berkeley. City of Berkeley to K E Parker Co.....December 30, 1930
Jan 3, 1931—ALAMEDA COUNTY, East Bay Municipal Utility Dist to Art Concrete Works.....December 31, 1930
Jan 3, 1931—ALAMEDA and CONTRA COSTA COUNTIES, East Bay Municipal Utility District to Hutchinson Co.....Dec 31, 1930
Jan 3, 1931—ALAMEDA and CONTRA COSTA COUNTIES, East Bay Municipal Utility District to Horace Phillips & John Gonsalves.....December 31, 1930
Jan 3, 1931—ASSOCIATED OIL CO to Acme Boiler & Machine Works.....December 30, 1930
Jan 2, 1931—SE VERNON ST 172 ft NE of Perkins St, Oakland. P O Troplong to whom it may concern.....January 2, 1931
Jan 2, 1931—NW PARK BLVD and St James Drive, Piedmont. The Roman Catholic Archbishop of San Francisco to Thos F L Furlong.....December 23, 1930
Dec 31, 1930—LOT 4 BLK 23, Warner Tract, Oakland. K Kriethich to A C Sharp.....December 24, 1930
Dec 31, 1930—3276 SCHOOL Street, Oakland. Associated Oil Co to The Dyer Const Co.....Dec 24, 1930
Dec 31, 1930—LOTS 5 and 6 BLK 5, Cragmont, Berkeley. John Merseureau to Irwin H Relmets.....December 30, 1930
Jan 2, 1931—NW LINE BLAIR AVE 90 ft NE of Highland AVE, Piedmont. Nolton N Ashley to Leo J Dolan.....December 29, 1930
Dec 31, 1930—NO. 404 QUIGLEY St., Oakland. E R Cooper to John Fleming.....Dec. 23, 1930
Dec 30, 1930—975 SANTA Barbara Road, Berkeley. Scott and Jean E Nelson to R C McBride, Jr.....December 22, 1930
Dec 30, 1930—LOT 183, Unit No 2 Avenue Terrace, Oakland. Oscar W and Anna E Johnson to whom it may concern.....December 29, 1930
Dec 30, 1930—1615 KEELER Street, Berkeley. Arthur C Lewis to whom it may concern.....December 27, 1930
Dec 29, 1930—LOT 3 BLK J, Estudillo Estates, San Leandro. H and Muriel A Johnson to whom it may concern.....December 23, 1930
Dec 29, 1930—PTN LOT 35 BLK B, Grand Avenue Heights, Piedmont.

Frederick L and Mary R Ensign to E M Williamson.....Dec 16, 1930

LIENS FILED

ALAMEDA COUNTY
Recorded Amount
Dec 31, 1930—INTERSECTION OF N line County Road No. 1469 with W line of Road leading from Mission San Jose to Patterson's Pass, Alameda County. Eureka Mill & Lumber Co vs Madam Anna Le Pleaux (also known as Anna Pp); John Doe Pp and Hans Johnson.....\$235
Dec 31, 1930—SE GRAND AVE & Webster St., Oakland. Eureka Mill & Lumber Co vs Grand Webster Building Corp and R M Evans vs A E Longmate.....\$27.85
Dec 30, 1930—LOT 15 BLK 4, Berkeley Square, Berkeley. Longmair-Tile & Roofing Co vs L Loncuarie, J Harry Smith.....\$400
Dec 30, 1930—LOT 15 BLK 4, Berkeley Square, Berkeley. C L Flassend vs A E Longmate.....\$49.22
Dec 30, 1930—LOT 15 BLK 4, Berkeley Square, Berkeley. Bertel Mork 1183; J H Green, \$438.44; F McDonald, \$75.90, Arthur E and Jessie J Longmate, J H Smith.....
Dec 29, 1930—NE TAYLOR AVE and Caroline St, Alameda. A G Burns vs Aileen Marie Roberts, fmyly Aileen Marie Hrubanick (also known as Aileen Marie Hrubanik, M F Hrubanick, Mary Dickson.....\$146.50
Dec 29, 1930—NE TAYLOR AVE and Caroline St, Alameda. Thos O Seffer vs Mary Dickson, L A Hrubanick.....\$128
Dec 29, 1930—NE TAYLOR AVE and Caroline St, Alameda. National Lead Co, \$288.44; Pacific Coast Aggregates, \$324.74; Carlstrom Bros, \$400. vs A and M Dickson, M F Hrubanick.....
Dec 29, 1930—PTN LOT 15 BLK 18, map of blocks 17, 18 and 19 Thousand Oaks, Berkeley. George C Cofer vs Angela Arceco (also known as A Angelo, H E Lansing.....\$64
Dec 29, 1930—149 BEECHWOOD Dr., Oakland. H K Flowers vs J M Walker.....\$240
Dec 29, 1930—S STUART ST 137 ft 6 inches W of Fulton St, Berkeley. N P Lindholm vs John E Petersen.....\$54.37
Jan 2, 1931—LOT 4 BLK 2031E, Tr'ct No 1 Blake Tract, Berkeley. S M Fleischer vs E M and Marian Norton and H Jones.....\$207.03
Dec 31, 1930—LOT 11 BLK 2, Grand View Terrace, Berkeley. Aladdin Heating Corporation vs Mrs. Mabel D Bullis and Frank Appelbe.....\$31.50
Dec 31, 1930—INTERSECTION OF N line of County Road No. 1469 with the W line of Road leading from Mission San Jose to Patterson's Pass, Alameda Co. C W Roland, \$290; A Casqueiro, \$90 vs Madam Anna Le Pleaux and Melrose Steel Co.....
Dec 31, 1930—INTERSECTION OF N line of County Road No. 1469 with the W line of Road leading from Mission San Jose to Patter-

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Phone Franklin 9400

San Francisco

son's Pass, Alameda County. Hans Johnson, vs Madam Anna Le Pleaux (also known as Anna Py), John Doe Py and Melrose Steel Co \$253
 Jan 6, 1931—NORTH LINE EAST 14th St 181-21 ft E of 13th Ave, Oakland. E K Wood Lumber Co vs J R L Jones, Melrose Steel Co \$71.46
 Jan 5, 1931—1261 DIVA ST, Berkeley. Edw W Brodrick vs Mary M, James G, and Jean E Walton, and J Harry Smith \$35
 Jan 2, 1931—647 SAN LUIS ROAD, Berkeley. A H Hassler vs David and Rhoda Keab \$211
 Jan 2, 1931—NE EAST 14th ST 181-21 ft E of 13th Ave, Oakland. Tyre Bros Glass Co vs J R L Jones, Melrose Steel Co \$42.40
 Jan 2, 1931—NE TAYLOR AVE and Caroline St, Alameda. Lee Hard-ware Co Inc vs Aileen Marie Roberts, Mary Dickson, M F Hru-banik \$114.51

RELEASE OF LIENS

Alameda County

Recorded	Amount
Dec. 27, 1930—LOT 50 BLK 6, Thous-and Oaks Heights, Berkeley. Sun-set Hardware Co to Fuller Weston; Helen Weston and E M Con-verse \$187.77	
Dec. 27, 1930—LOT 27 BLK 11, Amented Map of Central Park, Berkeley. Herman C Orth to C G Coates also known as Clifford G Coates and Myrta C Coates \$51	

BUILDING PERMITS

(San Anselmo, Marin County)

SAN ANSELMO, Marin Co., Cal.—Following building permits were granted during the month of December, 1930, by Chas. H. Cartwright, town building inspector of San Anselmo:

R. C. Buell. Dwelling. Bush Tract. Fern Lane. Est. cost, \$500.
 E. Bekovitsky. Addition. Lot 6 Blk 1, Sunnyside Tract. Woodland Ave. Est. cost, \$200.
 Walter Mayer. Dwelling. Lot 2, Sub. 2, Morningside Court. Brookside Drive. Est. cost, \$400.
 W. Mayer. Dwelling. Lot 3, Sub. 2, Morningside Court. Brookside Drive. Est. cost, \$400.
 E. Ruhl. Garage. Lot 17 Block 7, Morningside Court. Cost, \$150.
 G. C. Reed. Addition. Lot 2, Sub. Lots 85-87. Bush Tract. Elm Ave. Est. cost, \$100.
 C. Guidi. Dwelling. Lot 22, Sub. 1, Morningside Court. Morningside Dr. Est. cost, \$400.
 C. Pizochero. Alterations for store. San Anselmo Ave. Est. cost \$500.
 G. C. Gunther. Garage. Lot 10. Bush Tract. Oak Knoll Ave. Est. cost, \$100.
 J. V. Kriel. Addition and garage. Lot 11 Blk 4, Sequoia Park Section 1. Sequoia Drive. Est. cost, \$500.
 E. E. Vaughan. Dwelling. Portion Lot 166, Rose Valley Park Villa Lots Crescent Road. Est. cost, \$3000.

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$6000; Lot 30 Blk H, re-subdivision 35-92, San Mateo; owner and contractor, Len Field & Olund, 145 El Camino, San Mateo.
 STORE building, \$30,000; B and Baldwin Sts., San Mateo; owner, Wisconsin Co., 5th and S-Claremont Sts., San Mateo; architect, Edwards & Schary, 605 Market St., San Francisco; contractor, S. A. Wisnom,

140 S-Ellsworth St., San Mateo.
 RESIDENCE, \$9000; Lot 30 Blk 17, No. 506 Nevada St., San Mateo; owner and contractor, I. Sorenson, 1128 Lincoln St., San Mateo.
 BUNGALOW, \$3000; Lot 4 and Ptn Lot 7 Blk 9, No. 1013 Ninth St., San Mateo; owner and contractor, G. Ward, 1028 4th Ave., San Mateo
 BUNGALOW, \$2400; No. 923 S-Claremont St., San Mateo; owner, A. J. Faye, 16 Hobart Ave., San Mateo; contractor, Wallace Waterhouse, 1235 Shafter Ave., San Mateo
 SERVICE buildings, \$45,000; Lots 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 and 17 Blk 6 S-Claremont St., San Mateo; owner, Pacific Gas & Electric Co., 245 Market St., San Francisco.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
Dec. 30, 1930—LOT 13 BLK 26, Mil-lurue Highlands. George Traill-man to whom it may concern Dec. 26, 1930	
Dec. 30, 1930—LOT 7, Hillsborough Acres. Ang J Lang Jr to whom it may concern Dec. 20, 1930	
Dec. 31, 1930—PART BLK 16, Burlingame. Greyhound Lines, Inc to Charles R J Dewe Dec. 30, 1930	
Dec. 31, 1930—LOTS 12, 14 and 15 Blk 16, San Carlos Lyon & Hoag Subdivision. San Carlos Cleaning & Dyeing Works to whom it may concern Dec. 25, 1930	
Dec. 27, 1930—LOT 29 BLK 2, Ref-ugee Park, San Mateo. Castle Bldg Co to Henry Horn. Dec. 23, 1930	
Dec. 27, 1930—LOT 32 BLK 3, Jef-ferson Park, San Mateo. Castle Bldg Co to Henry Horn. Dec. 23, 1930	
Dec. 27, 1930—LOT 18 BLK 15, Third Addition to San Bruno Park. A J Dalton to whom it may concern Dec. 18, 1930	
Dec. 29, 1930—N 50 FT. LOT 14 BLK 12, Woodland Subdivision, San Mateo. Arthur C Heald to whom it may concern Dec. 24, 1930	
Dec. 29, 1930—LOT 19 BLK 10, Belle Monte Country Club. Frances J Roach to whom it may concern Dec. 29, 1930	
Dec. 29, 1930—LOT 7 BLK 54, Easton Addition to Burlingame No. 5. Charles L Bell to whom it may concern Dec. 1, 1930	
Dec. 29, 1930—N PART LOT 175, San Mateo Park. Allen McIntyre to whom it may concern. Dec. 20, 1930	

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
Dec. 27, 1930—LOTS 1 AND 2 BLK 20, Huntington Park 2nd Addition R H Sohn vs C Chiappa \$177	
Dec. 29, 1930 — LOT 32 BLK 10, Crocker Tract Sub. No. 1, Daly City. A L Stockton Lumber Co vs Gordon Thompson and Gust Bloomquist \$721.33	
Dec. 29, 1930—PTN LOTS 38 AND 40 Wellesley Park and Ptn Lot A Blk 10, Edgewood Park. Redwood City Hardware Co vs Henry McKay-klon and Martin Peterson \$15	
Dec. 29, 1930—LOT 2 BLK 15, Bay-view Heights. P O Lind vs Martin Peterson \$86	
Dec. 29, 1930—LOTS 14 AND 15 BLK 2, Bayview Heights. P O Lind vs Martin Peterson and S A Smoot \$205	
Dec. 29, 1930—LOT 2 BLK 15, Bay-view Heights. G Adolphson vs Martin Peterson and S A Smoot \$518.25	
Dec. 30, 1930—LOT 2 BLK 15, Bay-view Heights. C A Bloomquist vs	\$380

Dec. 31, 1930—LOTS 14 AND 15 BLK 2, Bayview Heights. J A Gaffigan vs Martin Peterson et al \$188.66
 Dec. 31, 1930—PART LOTS 38 AND 40 and part Lot A Blk 10, Welles-ley Park. J A Gaffigan vs Henry M McQuillen \$145
 Dec. 31, 1930—LOT 2 BLK 15, Bay-view Heights. J A Gaffigan vs Martin Peterson \$321.04

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded	Amount
Dec. 31, 1930—LOTS 1, 2, 3, 10 and Part 11 Blk 11, Town of San Mateo W T Pierce Constr Co to whom it may concern \$1000	
Dec. 31, 1930 — LOCATIONS NOT given. A A Arends et al to Anna E Miller et al Full	

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$12,500; No. 168 Edgewood Road, Palo Alto; owner, O A. Comper, 915 Waverly St., Palo Alto; contractor, H. H. Dab-nett, 1765 Fulton St., Palo Alto.

BUILDING PERMITS

SAN JOSE

RESIDENCE, 5-room frame, \$3800; Second and Taylor Sts., San Jose; owner, B. De Marco, 601 N-Third St., San Jose; contractor, S. De Cola, 511 E-Empire St., San Jose.
 ALTER frame residence, \$1000; No. 915 Harliss St., San Jose; owner, R. Walker, Fremises; contractor, G. J. Luetbben, 843 Delmas Ave., San Jose.
 ADD to frame college, \$3070; Naglee near Park, San Jose; owner, A. M. O. R. C., Naglee Ave., San Jose; contractor, Paul Anderson, 1210 Lincoln St., San Jose.
 RESIDENCE, 6-room frame, \$5000; Riverside near Coe St., San Jose; owner and contractor, Geo. Mc-Crary, 1027 Clark Way, San Jose.
 RESIDENCE, 4-room frame, \$3000; 19th St. near St. James St., San Jose; owner and contractor, L. S. Brisbin, 434 E. San Salvador St., San Jose.
 GYMNAS I U M, concrete, \$120,000; Washington Square, San Jose; owner, State of California; archi-tect, State Architect; contractor, J. J. Groden & Co., 1028 San Antonio St., Alameda.

BUILDING PERMITS

REDWOOD CITY

DWELLING and garage, frame, \$3600; No. 525 Jeter St., Redwood City; owner and contractor, Leonard A. Monroe, 4th Ave., Redwood City.
 DWELLING and garage, frame, \$5000; No. 441 Hudson St., Redwood City; owner, and contractor, James S. Forster, 1215 Jefferson St., Redwood City.
 DWELLING and garage, \$3000; 234 Madison St.; owner and builder, J. T. Bonner, 717 Clinton St., Redwood City.
 DWELLING and garage, frame, \$4000 No. 64 Hillview Ave., Redwood City; owner, J. L. Chiapelone, 718 Roosevelt St., Redwood City; contractor, C. S. Baker, 611 9th Ave., San Mateo.
 DWELLING and garage, frame, \$3000 No. 1124 Clinton St., Redwood City owner, Louis Foss; contractor, S. B. Coss.

BUILDING PERMITS

BURLINGAME

RESIDENCE, \$6000; Lot 19 Blk 1, Castillo St., Burlingame; owner, and contractor, G. W. Williams Co., 1404 Broadway, Burlingame.
 RESIDENCE, \$5500; Lot 9 Block 3, Francisco St., Burlingame; owner, and contractor, R. Allen, 619 Francisco St., Burlingame.
 HUNGALOW, \$5000; Lot 9 Block 2, Marin St., Burlingame; owner and contractor, Emma E. Atkinson, 615 Marin St., Burlingame.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted
 Dec. 19, 1930—PART LOT 8, Mrs. A. E. Colton's Subd., San Jose. Isabel E Patton to whom it may concern
 Dec. 19, 1930—PART LOT 40, Subd. of Montchello Acres Wm. H. Bauman to whom it may concern
 Dec. 18, 1930
 Dec. 20, 1930—LOT 2 BLK 9, Seale Addition No. 2, Palo Alto. C. L. Blacker to whom it may concern
 Dec. 20, 1930—SE ADDISON 100 SW Webster St. SW 40XSE 110 Ptn Lot 4 Blk 75, Palo Alto. Alfred A. Dulin to whom it may concern
 Dec. 18, 1930
 Dec. 20, 1930—NW KELLOGG AVE and SW Emerson St. NW 50XSW 100 Part Lots 7 and 8 Blk 2, Seale Addition No. 1, Palo Alto. Dale H. Nichols to whom it may concern
 Dec. 15, 1930
 Dec. 22, 1930—NW KINGSLEY AVE and SW Fulton St. NW 60XSW 112 1/2 Part Blk 94, Palo Alto. George Aro to whom it may concern
 Dec. 20, 1930
 Dec. 22, 1930—LOT 8, Lincoln Manor. David L. Strom et al to whom it may concern
 Dec. 22, 1930
 Dec. 22, 1930—LOT 19 Nott Subd., Los Gatos. Carmela Colangelo to whom it may concern
 Dec. 19, 1930
 Dec. 23, 1930—SW FIRST AND SAN Antonio Sts., San Jose. Conservative Realty Co to whom it may concern
 Dec. 17, 1930
 Dec. 22, 1930—LOT 14 BLK 9, Seale Addition No. 2, Palo Alto. Conrad L. Blacker to whom it may concern
 Dec. 18, 1930
 Dec. 24, 1930—CAMPUS OF STANFORD Jr. University. Board of Athletic Control of the Stanford University to whom it may concern
 Dec. 24, 1930
 Dec. 24, 1930—LOT 16 BLK 24, Los Altos No. 2. T V Hardeman et al to whom it may concern
 Dec. 23, 1930
 Dec. 24, 1930—SW FIFTH AND Church Sts., Gilroy. Presbyterian Church of Gilroy to whom it may concern
 Dec. 18, 1930
 Dec. 24, 1930—PART LOT 1, P. G. Keith Subd., San Jose. Walter Dixon to whom it may concern
 Dec. 23, 1930
 Dec. 24, 1930—LOT 5 BLK 6, Claremont Subd., San Jose. Robert Laroeca to whom it may concern
 Dec. 23, 1930
 Dec. 24, 1930—ON 1.72 ACRES beg. E Cor 23.14 ac to Part Public Tract No. 1, Joaquin E. Ross, to whom it may concern
 Dec. 23, 1930
 Dec. 24, 1930—PART 500 ACRES, Lot 26 and part Lot 34, Chace Villa Lots. Anthony Jangrus to whom it may concern
 Dec. 23, 1930
 Dec. 27, 1930—LOT 15 BLK 3, North and West Miller & Lux, Western Addition, Gilroy. W F Schreier to whom it may concern
 Dec. 26, 1930
 Dec. 27, 1930—LOT 15 BLK 3, North and West Miller & Lux, Western Addition, Gilroy. W F Schreier to whom it may concern
 Dec. 26, 1930

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
 Dec. 20, 1930—LOT 5 BLK K, Southgate, Palo Alto. Merner Lumber Co vs George J and Ida Catherine Miller (4) liens. \$190.77; \$45.29
 \$38.19 vs 126.15 respectively
 Dec. 20, 1930—LOT 5 BLK K, Southgate, Palo Alto. The Minton Co vs George J Miller. \$749.54
 Dec. 20, 1930—LOT 5 BLK K, Southgate, Palo Alto. Grant Winner vs George J and Ida C Miller \$115.65
 Dec. 23, 1930—LOT 16 BLK 62, Seale Addition No. 2, Palo Alto. Frank A Grunert vs Robert and Lottie M Nell\$157
 Dec. 27, 1930—593 ACRES Part Laguna Seca Rancho. Adrian Mfg Co vs E Avery Newton.....\$1238.45

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
 Dec. 18, 1930—LOT 35 BLK 1, Conkling and Col Subd., San Jose. Hubbard & Carmichael Bros to C V Brown et al
 Dec. 20, 1930—E OLD MARKET ST. 142 N Julian St., San Jose. Henry Cowell Lime & Cement Co to E J Clark

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
 Dec. 31, 1930—LARKSPUR. Gerardo Granucci and wife to Everett W Ruhl Dec. 19, 1930
 Dec. 31, 1930—SAUSALITO. Kate O Smith to Walter L Broderick..... Dec. 30, 1930
 Dec. 30, 1930—CORTE MAJERA. Jan Donovan; H E Ziegler and Jam Kennett to whom it may concern.....Dec. 26, 1930

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 Dec. 31, 1930—RODEO. Associated Oil Co to The Dyer Constr Co. (construct Type K Canopy Unit Service Station).....Dec. 24, 1930
 Dec. 31, 1930—LOTS 2 AND 3 BLK 24, Henderson Tapesot No. 1. Improvement Bond Co. Ltd. to whom it may concern.....Dec. 30, 1930
 Dec. 31, 1930—PTN BLK 159, Original Survey, Martinez. Alhambra Union High School District to Wallace Snelgrove (addition to school).....Dec. 30, 1930

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 Dec. 31, 1930—ON COUNTY ROAD, bet Concord and Walnut Creek. Chester A Bray vs A L Schneck and J J Hansen.....\$64.81

RELEASE OF LIENS

CONTRA COSTA COUNTY

Recorded Amount
 Dec. 29, 1930—LOTS 1, 2 AND 3 Blk 336, Additional Survey, Martinez. Judson Pacific Co to Wallace Snelgrove and J F Marino.....

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 Jan. 2, 1931—NORTH SIDE OF Spencer Ave 200 ft E from Mendocino Ave. Santa Rosa. Frank A and Grace R White to C W Hansen.....
 Dec. 31, 1930
 Dec. 26, 1930—NW CORNER, THIRD and E Sts, Petaluma. General Petroleum Corp of California to H P Vogensen-Vogensen Const Co.
 Dec. 16, 1930
 Dec. 29, 1930—WHITE-O-RANCHO about 5 miles SW of Healdsburg. Alleen D White to W S Kington.....
 Dec. 20, 1930
 Dec. 29, 1930—WEST SIDE OF College Ave 150 S of South line of Lincoln St. Santa Rosa. J Lee and Grace M Hoy to whom it may concern..... Dec. 26, 1930
 Jan. 3, 1930—STEINER COURT, Santa Rosa. W R Lippincott to whom it may concern.....Jan. 3, 1931

LIENS FILED

SONOMA COUNTY

Recorded Amount
 Dec. 31, 1930—LOT C 132 and part lot 133 Sub No 5, Cotati Rancho. Cannon & Hodges vs W J Marquart, W J Marquart and Chas Spencer\$1784.12
 Dec. 31, 1930—LOT 6 ELK 1 Merriam's Addn, Santa Rosa. Sterling Lumber Co vs Robert O'Connor, Mr and Mrs E A Bradbury\$1067.77 & Int.
 Jan. 5, 1930—LOT 1 Subd A, A. W. Lehrke's Subd. 1, 2 and 3 of T. B. Carmody Ranch, Sonoma Valley. L F Kearney (El Verano Lumber Yard) vs Joe Battini and Josie Mairani\$71.58

RELEASE OF LIENS

SONOMA COUNTY

Recorded Amount
 Jan. 3, 1931—FITCH MOUNTAIN, near Healdsburg. Rose & Stevenson to Thomas Scoble and Del Rio Properties, Inc.

BUILDING PERMITS

STOCKTON

DWELLING and garage, \$4000; No. 437 Lexington Ave., Stockton; owner and contractor, Robert R. Wagner, Bank of Italy Bldg., Stockton.
 RESIDENCE and garage, \$5000; No. 1061 West Elm St., Stockton; owner, H. H. Thurston, 433 E-Wyandotte St., Stockton.

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
 Dec. 27, 1930—STATE HIGHWAY through California. Department of Public Works, State of Calif. to Lilly, Willard & Biasotti (use gasoline roller).....Dec. 20, 1930

LIENS FILED

SAN JOAQUIN COUNTY

Recorded Amount
 Jan. 3, 1931—E 21 FT. OF S 75 FT. Lot 2 and W 1/2 of S 75 ft Lot 4, all in Blk 5, East of Center St. fronts Sly 45 ft, 8 1/4 inches on Nly side of Main St. standing in record in the name of George L Bishop; N 25 ft. Lot 2 and N 25 ft. of W 1/2 of Lot 4 and S 40 ft. of W 1/2 of Lot 14, all in Blk 5, East of

Center St., fronts Wly 65 feet 3/4 inches on Ely side of Sutter St. standing of record in the names of Eva Brooks and Florence Brooks. L V Daundinger, \$426.10; San Jaquin Brick Co., \$554.42; San Jaquin Brick Co., \$7675.25; H P Fischer, \$704.11 vs George L Bishop, Eva Brooks, Florence Brooks, S H Kress & Co and J S Metzger & Son
 Jan. 6, 1931—KRESS BLDG. Station. Citizens Sheet Metal Works, \$3497.07; Walworth Calif. Co., \$1557.95 vs S H Kress & Co; Eva and Florence Brooks; George L Bishop; Donald Metzger & Son and Louis Brandt.....

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
 Jan. 2, 1931—BEING PT LOT 6 of Rancho Bolsade, San Cayetano, M L and Edith May Lundy to Ray R. Apperson.....Dec. 27, 1930
 Jan. 3, 1931—VILLA LOT 2, Baybank and Devendorf Addition to King City. Pacific Gas & Electric Co to Hugh S Thompson.....December 31, 1930
 Jan. 5, 1931—LOT 16 BLK 21, Map Spring's Second Addition to Salinas City. Robert B Mitchell to S Trondhjem.....Jan. 3, 1931
 Jan. 6, 1931—LOT 10 BLK 2, Map of Spring and Abbott's Addition to Salinas. Lulu Manning to L Manning.....Jan. 5, 1931
 Dec. 26, 1930—LOTS 34 AND 36 BLK 7, Map of Withers' Addition to City of Monterey. Chas O Tibbs to whom it may concern.....Dec. 24, 1930
 Dec. 29, 1930—NW wall line of Merritt and Preston Sts., Monterey. D Pieri to Fred McCrary.....Dec. 23, 1930
 Dec. 29, 1930—LOT 1 BLK 29, Map of Carmel City. Elizabeth McClung White to Sam Miller.....Jan. 5, 1931
 Dec. 29, 1930—LOT 2 BLK 24, Monte Regio No. 1. Grace E Lewis to W C Mann.....Dec. 24, 1930
 Jan. 5, 1931—LOTS 5 AND 8 BLK 1 Town of New Republic. S L Weber vs Helen Johnson and Frances Redriguez.....\$148.78

BUILDING PERMITS

SACRAMENTO

REMODEL, \$1500; No. 1723 J St, Sacramento; owner, Chas. Blumberg, Premises; contractor, C. J. Hopkinson, 1810 18th St., Sacramento.
 RESIDENCE, 4-room, \$2500; No. 1106 Howell Ave., Sacramento; owner, Gene McShane, 3013 42nd St., Sacramento; contractor, E. L. Eachus, 2175 Weller St., Sacramento.
 RESIDENCE, 4-room, \$2500; No. 1104 Howell Ave., Sacramento; owner, E. L. Eachus, 2175 Weller Way, Sacramento.
 RESIDENCE seven room and garage, \$6500; No. 3661 Curtis Park Drive, Sacramento; owner and contractor, Watson & Bennie, 2719 Fifth Ave., Sacramento.
 RESIDENCE, 6-room, \$4450; No. 625 46th St., Sacramento; owner and contractor, Properties Finance Corp., 819 J St., Sacramento.
 RESIDENCE, 9 room, \$11,000; No. 1508 27th St., Sacramento; owner, Ralph E. Fellows, 2115 I St., Sacramento; contractor, N. H. Lund, 3300 Custer St., Sacramento.
 RESIDENCE, 6-room, \$4000; No. 600 Coloma Way, Sacramento; owner, and contractor, C. E. Wright, 1054 40th St., Sacramento.
 RESIDENCE, 5 room, \$3500; No. 510

Pico Way, Sacramento; owner and contractor, C. E. Wright, 1054 40th St., Sacramento.
 RESIDENCE, 4 room, \$3500; No. 1032 Howell Ave., Sacramento; owner, P. P. Reed, 2545 28th St., Sacramento.
 GENERAL repairs, \$2650; No. 2523 Sacramento Blvd., Sacramento; owner, Stilson Bros, Premises.
 RESIDENCE, 7-room & garage, \$6000 No. 5016 T St., Sacramento; owner, A. R. Cowler, 2501 52nd St., Sacramento.
 SERVICE station, \$1200; No. 1216 15th St., Sacramento; owner, L. D. Ebert, 1050 38th St., Sacramento
 RESIDENCE, 5-room, \$3000; No. 1427 24th St., Sacramento; owner, Klein Realty Co.; 1009 8th St., Sacramento.

GENERAL repairs, \$1500; No. 1206 J St., Sacramento; owner, W. P. Fuller Co., 1015 12th St., Sacramento; contractor, Clarence Saunders, 2501 H St., Sacramento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
 Jan. 2, 1930—LOT 38, Land Drive Terrace Unit No. 1, Sacramento. McClatchy Realty Co and Robertson Govan Co to whom it may concern.....Dec. 22, 1930
 Dec. 30, 1930—TRACT LAND LYING S of Lot 81, Harding Place and W Lot 19, East Terrace City. A S Hackett to whom it may concern.....Dec. 29, 1930

LIENS FILED

SACRAMENTO COUNTY

Recorded Amount
 Dec 31, 1930—SECTION 15-8-5 desc as E three acres Lot 1 White Tct. Ralph E. Huston vs Fred and Emma Dixon.....\$159.12

BUILDING PERMITS

FRESNO

ALTERATIONS and additions, \$1000; No. 1248 Fulton St., Fresno; owner, Annie L. Wallace, Premises; contractor, Fisher & McNulty, Matte; Eldr., Fresno.
 DWELLING and garage, \$4900; No. 933 Terrace Ave., Fresno; owner and contractor, Taylor - Wheeler, Inc., Power Co. Bldg., Fresno
 ALTERATIONS and additions, \$2000; No. 1931 Mariposa St., Fresno; owner, C. H. Staples; contractor, E. J. Farr & Son, 1236 Linden St., Fresno.
 DWELLING, \$5000; No. 1621 N-Van Ness Ave., Fresno; owner and contractor, A. F. Lambert, 1576 Poplar St., Fresno.
 SERVICE station, \$2400; No. 505 Van Ness Ave., Fresno; owner, Arsen Orphan, 732 Fulton St., Fresno; contractor, Eagle Transfer Co., 752 H St., Fresno.

COMPLETION NOTICES

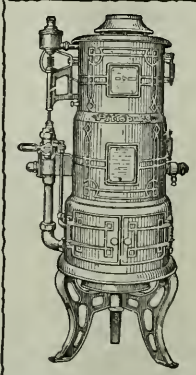
FRESNO COUNTY

Recorded Accepted
 Dec. 30, 1930—LOTS 19 AND 20 BLK 4, K & B Heights. C W Church to J R Church.....Dec. 29, 1930

LIENS FILED

FRESNO COUNTY

Recorded Amount
 Jan. 3, 1931—LOT 96, Scandinavian Val. A B Pretzer vs Vincenzo G Aiello.....\$51.90
 Dec. 31, 1930—NE 1/4 OF NW 1/4 OF Sec. 5, 14-19, Fresno. C S Pierce Lumber Co vs A Chakurian and Aram Arax.....\$687
 Jan. 2, 1930—W 1/2 OF NW 1/4 OF NW 1/4 of Section 5, 14-19, Fresno. C S Pierce Lumber Co vs A Chakurian and Aram Arax.....\$687



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Publication Office
547 Mission Street

SAN FRANCISCO, CALIF., JANUARY 17, 1931

Published Every Saturday
Thirty-first Year, No. 3

WOOD ROOF TRUSSES

FOR THE MODERN
INTERIOR SPAN
30 TO 130 FEET

LOS ANGELES

**SUMMERBELL
TRUSS CO**

OAKLAND **OAKLAND BUILDERS' EXCHANGE** **PORTLAND**
Glencort 7400

The advertisement features a central diagram of a wood roof truss. The truss is a curved, arched structure supported by two thick, vertical posts that flare outwards. The text is arranged around and below the diagram. At the top, 'WOOD ROOF TRUSSES' is written in bold. Below the diagram, it says 'FOR THE MODERN INTERIOR SPAN 30 TO 130 FEET' and 'LOS ANGELES'. The company name 'SUMMERBELL TRUSS CO' is prominently displayed in a dark rectangular box. At the bottom, the locations 'OAKLAND' and 'PORTLAND' are listed, with 'OAKLAND BUILDERS' EXCHANGE Glencort 7400' in between.

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Building and Engineering News

Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

Issued Every Saturday

SAN FRANCISCO, CALIF., JANUARY 17, 1931

Thirty-first Year, No. 3

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Bill Advocates Insurance Against Unemployment For California Workers

Insurance against unemployment is the objective of a bill Assemblyman William Hornblower, San Francisco, is having drafted for introduction in the legislature.

The insurance would be financed jointly by the employer and employe, the employe contributing 1 per cent per month of his wages toward the fund and the employer contributing 2 per cent of the wages paid the employe. The employer, in other words, would contribute twice the amount contributed by the employe.

Any person who had worked twenty six weeks in the two years prior to filing application for such insurance would be eligible.

After a lay-off of nine days or more, the worker thus insured would be entitled to \$9 a week if single and \$12 a week if married, with an additional \$1 for every minor child.

Unemployment due to drunkenness would not entitle the worker to insurance.

The act would be administered by the state industrial accident commission.

Hornblower says his bill is based on a study by insurance experts and is sound in principle.

OFFICERS NAMED BY BAKERSFIELD EXCH.

G. A. Graham, general contractor, was elected president of the Bakersfield Builders' Exchange at the annual meeting of that body held last week. Gene Gartley, electrical contractor, was elected vice-president; George Wilson, sheet metal contractor, was re-elected treasurer and D. T. Turner, secretary-manager.

Directors chosen were: G. A. Graham, V. A. Young and H. C. Evans, representing the general contractors; Thos. W. Fraser, representing the hardware floor and ornamental iron contractors; W. M. Fisher, representing the heating contractors; Ace Abbott, representing the plumbing contractors; A. J. Hendricks, representing the brick and tile contractors; George Wilson, representing the sheet metal contractors; Gene Gartley, representing the electrical contractors; L. F. Perry, representing the roofing and plastering contractors; P. J. Stevens, representing the painting contractors.

The Bakersfield Builders' Exchange recently opened larger quarters at 1200 Eighteenth Street, Bakersfield, to better serve the membership which now includes the leading contractors and material dealers in the Kern County section.

To be installed in a new substation at Herndon, Fresno County, four huge air-blast transformers, costing \$250,000, have been ordered by the Pacific Gas & Electric Company from the Westinghouse Electric & Manufacturing Company at Pittsburgh, Pa.

HUNTINGTON, L. A. ATTORNEY, IS NAMED STANDARDS DIRECTOR

Governor Rolph has appointed Colonel Carlos Huntington, Los Angeles attorney, as director of the Department of Professional and Vocational Standards.

Colonel Huntington succeeds James Collins of Long Beach, who resigned.

The new director is an ex-convict man, having served with the 16th ammunition train in the 1st division. He has lived in Los Angeles since 1919, and was very active in Rolph's campaign for the governorship.

As director of the Department of Professional and Vocational Standards he will be at the head of most of the professional boards of examiners, such as contractors, pharmacists, dentists, accountants, embalmers, architects, optometrists and barbers.

WESTERN SPRINKLER CHANGES FIRM NAME

The Western Automatic Sprinkler Company announces a change of name to the Viking Automatic Sprinkler Company with offices at 114 Sansome St., San Francisco. G. W. Greeley is the local manager.

Further announcement is made of this company's recent association with the Northwestern Sprinkler Company of Seattle, Washington, which has also changed its name to the Viking Automatic Sprinkler Company. The Northern Division will handle a complete line of Viking devices and operate in the entire Northwest territory, with R. L. Thorsdale, president and general manager, and S. E. Martin, vice-president. The Southern Division, with S. F. Martin, president, has its headquarters at 2715 East 12th St., where they recently moved into a new modern plant.

The Viking Automatic Sprinkler Company, a subsidiary of the Viking Corporation of Hastings, Michigan, announces a new Pre-action Device for the quick detection of fires, in addition to the operation of automatic sprinklers. This is in line with their practice of making many changes and improvements in the old style Automatic Sprinkler Devices.

Objections to building a jail or establishing a jail farm for San Francisco along the coast of San Mateo County have been raised by the directors of the Coastside Civic Union of San Mateo County. The organization declares that an undershifman already had obtained option on the old Valencia ranch, which includes within its boundaries historic Pillar Point.

OREGON REALTORS WILL MAKE STUDY OF STATE BUILDING CODE

To obtain all knowledge available on the proposed state building code and become thoroughly acquainted with all the measures involved, the Portland Realty board has asked the legislation committee, of which Henry E. Reed is chairman, to study and prepare a report on the code.

This action followed a debate on the measure in which Francis H. Murphy, president of the Oregon Building Congress, took the affirmative side of the question: "The State should adopt the state building code," and Ernst Kroner, architect, stood for the negative.

In explaining the measure, Murphy stated the proposal was to combine an electrical and plumbing code with the building code, thereby obtaining a stricter surveillance of localities which otherwise are too loosely inspected.

The structural code in the measure has already been adopted by 90 cities in the West, and many cities in Oregon are now using the combined electrical, plumbing and building code. California has successfully operated under this law for some time, Murphy declared, and Washington is seriously considering the matter. The adoption of such a measure, according to Murphy, who represents an organization of builders, architects, engineers and subcontractors of Portland, would eliminate many of the dishonest and unsatisfactory contractors now operating throughout the state.

Kroner emphatically denied the benefit of such a code, claiming it to be one of the most dangerous measures at the time as it would give inexperienced inspectors and ignorant officials the authority to take steps which they are not fit to take intelligently.

HIGHWAY DISTRICT VALIDITY IS UPHELD

The validity of Joint Highway District No. Six was upheld Jan. 13 by the State District Court of Appeal.

In confirming the judgment of Superior Court, the higher tribunal turned away the complaint of J. M. Sharp, property owner, who held "that the district was attempting the illegal collection of revenue and had no valid existence as a taxing agency."

The court found no merit in Sharp's main contention that he had had sufficient opportunity to protest—and held that his complaint thus became merely "another attack upon the statutes under which highway districts are formed."

The protested highway would run from Maricopa, Kern County, over the mountains to Ojal Valley, Ventura County, thence to Rincon Creek, Santa Barbara County.

STATE HIGHWAY BUDGET FOR 1931-1933 BIENNIUM PRESENTED TO STATE LEGISLATURE

REDWOOD HIGHWAY

(San Francisco to Oregon Line near Monumental)

Grading, structures, 17.3 miles, Cloverdale to Hopland (Mendocino and Sonoma counties), \$900,000. Beginning of construction on new line along the Russian River between Cloverdale and Hopland which will eliminate the present steep and crooked existing route. This section was never undertaken before through fear of slide conditions. The design of the road to be built there provides for these conditions, shortens the distance over 1 1/2 miles, substitutes a light water grade for a long mileage of steep maximum grades.

Grading, structures, armor rock surfacing, 1.4 miles, Little Dam Creek to Leggett (Mendocino county), \$85,000. Cedar Creek and Dann Creek (Mendocino county), two bridges, concrete and steel, \$284,000.

Crescent City to Elk Valley (Del Norte county), 5.3 miles, grading, structures, oil rock surfacing, \$249,000. This completes the present Redwood Highway gap in Del Norte county and locates the road via Crescent City, settling a long existing controversy.

Dyersville bridge and approaches (Humboldt county), \$196,400.

Bridge and approaches over east branch of Eel River at Ben Bow (Humboldt county), \$111,000.

Grading and truck approaches, Robinson Ferry bridge (Humboldt county), \$51,400.

Slope protection, Hiouchi Bridge to north boundary of Del Norte county, \$50,000.

Grading, structures and armor rock surface, 5.5 miles, Peppervood School to Farm House Inn (Mendocino county), \$561,000. This provides for the reconstruction of the present narrow, steep and tortuous Rattlesnake grade in Mendocino county.

Grading and macadam shoulders 11.3 miles, South Scotia bridge to Fortuna (Humboldt county), \$135,600. The present 15-ft. pavement will be widened and made safer for the increased traffic using this section of the road.

Grading and oil surfacing, Arnold to Peppervood School, portions (Mendocino county), \$85,000.

Oil surfacing, Loleta to two miles north of Beatrice, 5.3 miles (Humboldt county), \$60,000.

PACIFIC HIGHWAY

(Section from Red Bluff to Oregon Line)

Bridge at Clear Creek (Shasta county), \$57,800.

Bridge at Cottonwood Creek (Siskiyou county), \$18,500.

Oil surfacing, Loleta to two miles north of Yreka to Klamath River (Siskiyou county), \$22,400.

Grading, oil surfacing, Cottonwood Creek bridge, approaches (Siskiyou county), \$27,600.

PACIFIC HIGHWAY

(East Side—Sacramento to Tehama Junction via Marysville)

Grading and shoulders, 6.8 miles, Shasta Union School to 6 miles north (Butte county), \$28,350.

Grading and pavement, 8.4 miles, Lincoln to Shivanan and Wetland to Dry Creek (Placer and Yuba counties), \$63,000.

Bridge at Coon Creek (Placer county), \$37,500.

PACIFIC HIGHWAY

(West Side—Tehama Junction to Benicia)

Grading, structures, paving 0.5 of a mile in Willows (Glenn county), \$25,000.

The biennial state highway budget recommending expenditures of \$63,322,500 upon the state highway system for the ensuing fiscal years was presented to the State Legislature on January 12, by Governor Rolph.

The budget covers contemplated expenditures for all state highway purposes including construction, reconstruction, maintenance, greatly desired rights of way, engineering and administrative costs. The distribution of the money between northern and southern counties, and between primary and secondary highways is in accordance with the provisions of the Breed Bill.

While the budget is for the fiscal years of July 1, 1931, to June 30, 1933, if previous rulings are followed, the funds provided in the budget will be available for expenditure upon adoption by the Legislature and approved by the Governor. This will enable state highway work to proceed without interruption, as greatly desired by Governor Rolph and Colonel Garrison, director of the Department of Public Works.

Construction and reconstruction projects included in the budget, as submitted to the Legislature by Governor Rolph are as follows:

Oil rock surfacing, 8.9 miles, Williams to Maxwell (Colusa county), \$160,600.

Grading, gravel base and small structures, 4 miles, Williams to 4 miles south (Colusa county), \$80,000.

All three of these projects constitute the progressive improvement of the Coast Side Highway.

GOLDEN STATE HIGHWAY (Valley Route—Sacramento to Los Angeles)

Mered River Bridge and approaches (Merced county), \$215,000.

Berenda Slough Bridge (Madera county), \$38,000.

Grading, structures and pavement, 0.7 of a mile, Madera city limits northerly, \$46,500.

Bridge over Fresno River (Madera county), \$60,000.

Grading, structures, pavement and oiled shoulders, Turner's Station, to Stockton (San Joaquin county), \$319,400. This provides for the improvement of the so-called "Hogan" Road from Stockton south.

Nine timber bridges (San Joaquin county), \$56,600.

Grading, filling borrow pits, pavement and structures, Cosumnes River bridge to 1.4 miles north of McConnell (Sacramento county), \$26,600.

McConnell grade separation, subway (Sacramento county), state's share, \$66,500.

Stanislaus River Bridge and approaches (Stanislaus county), \$105,300.

Grading and structures, 5.3 miles, Cotton Creek to Piru Creek, Ridge Route Alternate (Los Angeles county), \$500,000.

Grading and structures, 3.9 miles, Los Alamos Divide, Ridge Route Alternate (Los Angeles county), \$1,000,000. This item and the one immediately above provides for continuation of construction upon the Alternate Ridge Route.

Grading, structures and pavement, 3.1 miles, Fresno to Fancher Creek (Fresno county), \$216,200. This completes the widening of pavement immediately north of the city of Fresno.

Grading, oil rock shoulder, 29.3 miles, Bakersfield to Grapevine (Kern

county), \$360,000. This widens the roadbed and improves conditions upon the "seventeen mile tangent."

Grading and resurfacing, 11.8 miles, Goshen to Kingsburg (Tulare county), \$473,000. This provides for widening the 15-ft. pavement in Tulare county.

Five bridges over Cross Creek widening; bridge over canal near Traver (Tulare county), \$56,000.

Grading, structures, oil shoulders, pavement, 5.5 miles, Plaza Garage to Goshen; grading, structures, oil shoulders, Plaza Garage to 0.3 of a mile westerly (Tulare county), \$272,000. This with other work will complete the widening of the 15-ft. pavement in Tulare county and provide a grade separation at the junction of the Golden State Highway and the Hanford laterals.

Plaza Garage grade separation (subway) Tulare county, state's share, \$50,000.

Grading, structures, oil shoulders, pavement 2 miles, Union Avenue to Beardsley Canal (Kern county), \$235,000. This provides for improving and widening pavement at the north city limits of Bakersfield.

Bridge over Kern River (Kern county), \$400,000.

Bridge over Beardsley Canal (Kern county), \$16,000.

COAST HIGHWAY

(San Francisco to San Diego)

Grade separation with S. P. tracks at Madrone (Santa Clara county), state's share, \$110,000.

Soledad Grade separation and approaches (Monterey county), \$96,000.

Bridge over San Benito River (San Benito county), \$140,000.

Santa Clara River bridge (Ventura county), \$410,000. The original was washed out by the flood following the failure of the San Francisco Dam. The new bridge is on new alignment, and is an improved structure.

Grading, structures, widening pavement, Fulerton to Los Angeles county line (Orange county), \$164,500.

This will complete the 30-ft. width of pavement on the Coast Highway between Los Angeles and Santa Ana.

Grading, surfacing and structures, 3.9 miles, Wigmore to Los Alamos (Santa Barbara county), \$150,000. This provides for widening the existing 15-ft. pavement.

Repairing floor, Santa Ynez River bridge at Buellton (Santa Barbara county), \$18,000.

Grading, pavement, structures, widening, 5.1 miles, Serra to San Diego county line (Orange county), \$382,500. This project increases the present 20-ft. pavement to 30 feet in the southern part of Orange county between the junction of the Coast Highway and the Oxnard-Capistrano Highway.

Grading, structures, pavement, widening 4.5 miles, Ventura to El Rio (Ventura county), \$166,000. This provides for a 30-ft. pavement south of Ventura to the junction of the Coast Highway and the Oxnard-Capistrano Highway.

Bridge and approaches, San Dieguito River bridge (San Diego county), \$234,500. This corrects alignment and substitutes an improved bridge for the present tulle trestle.

Grading, structures, pavement, 16.8 miles, Santa Rita to San Benito River, 15.8 miles (Monterey and San Benito counties), \$1,046,700. This provides for grading and paving of the relocated San Juan grade.

Bridge over San Juan Creek (San Benito county), \$10,000.

VICTORY HIGHWAY

(Roseville to Nevada Line via Auburn) Grading, pavement and small structures, 4 miles, Newcastle to Auburn (Placer county), \$335,000. This project provides for correction of alignment and widening of 15-ft. pavement.

Oil rock surfacing, Alrport to Soda Springs, 50 miles (Placer and Nevada counties), \$93,000.

Oil rock surfacing, Colfax to Gold Run, 8.9 miles (Placer county), \$135,000.

Grading, structures, oil rock surf. Gold Run to Alrport, 12 miles (Placer county), \$780,000. This completes the remaining unimproved section east of Auburn.

Towle Grade separation (subway beneath S. P. tracks) (Placer county), state's share, \$29,000.

Oil rock surfacing, 1.8 miles near Bay View Rest (El Dorado county), \$7200.

Myers to Nevada Line via Truckee River

Oil rock surfacing, Tahoe Junction to Hinton, 9 miles (Nevada county), \$135,000.

Oil surfacing Bay View, northerly, 1.8 miles (El Dorado county), \$7200.

WHEATFIELD-HIGHWAY
Armor top surface, Nevada City to Washington Road, 11.8 miles (Nevada county), \$41,000.

Bridge over Russian River (Mendocino county), \$30,000.

PLACERVILLE - TAHOE HIGHWAY
(Sacramento to Nevada Line via Placerville)

Grading and structures from Brighton to Mills (Sacramento county), \$339,000. This provides for placing a concrete pavement on the first section of the Placerville road from Sacramento easterly.

Grading, structures, paving in Placerville (El Dorado county), \$46,000. (Cooperative project).

Oil rock surfacing Riverton to Kyburz, Strawberry to Philpotts (El Dorado county), \$51,200.

Oil rock surfacing, Mays to state line (El Dorado county), \$50,200.

Grading, structures, oil rock surfacing, Placerville to R R Xing (El Dorado county), \$59,000. This provides for grading and surfacing a section of the road immediately east of Placerville hitherto unimproved except for maintenance.

Oil surfacing, Clarks Corner to Placerville, 1.7 miles (El Dorado county), \$5,550.

MOTHER LODGE HIGHWAY

(Auburn to Sonora)

Grading, structures, armor top surfacing, 1.2 miles, San Andreas to 1.4 miles north of Calaveritas Creek (Calaveras county), \$35,000.

Armor top surfacing north and south of Calaveritas Creek, 2.9 miles (Calaveras county), \$13,200.

Armor top surfacing, 7.2 miles, Dry Tower to Martell (Amador county), \$29,500.

FEATHER RIVER LATERAL
(From Pacific Highway to Quincy via Oroville)

Grading, structures and oil rock surface from Pulga to East Butte county line (Butte county), \$483,400. This continues construction on the Feather River lateral from the crossing at Pulga east to the Plumas county line.

Parades Bar bridge (Butte county), \$41,000.

Grading, structures and oil rock surfacing, 1.2 miles, Spanish Creek to Keddle (Plumas county), \$135,000.

Spanish Creek and D. P. tunnel, bridge and portal structures (Plumas county), \$100,000.

Bridge over West Branch Creek (Butte county), \$45,000.

Oiled surface, Oroville to Feather River, 4.1 miles (Butte county), \$16,600.

TRINITY LATERAL

(Redding to Arcata via Weaverville) Oiled surface, Weaverville to Tower

House, 32 miles (Trinity and Shasta counties), \$69,160.

Clear Creek bridge approaches (Shasta county), \$9300.

Bridge at Browns Creek and approach (Trinity County), \$9700.

Bridge at Clear Creek (Shasta county), \$17,700.

Oil rock surfacing, 9 miles, Humboldt-Creek to Willow Creek (Humboldt county), \$55,500.

DOWNIEVILLE LATERAL

(Nevada City to Downieville)

Grading, structures and surfacing, Nevada City to Downieville (Nevada, Tuolumne and Sierra counties), \$50,000. This starts the redevelopment and widening of the old highway originally built by convicts on standards not satisfactory for present traffic.

ALTURAS LATERAL

(Redding to Nevada Line via Alturas)

Oiled surface, Fall River to Hot Creek, 66 miles (Shasta, Lassen and Modoc counties), \$243,600.

Oiled rock surfacing, Diddy Hill to Old and Mountain, 8.7 miles (Shasta county), \$115,000.

Oiled surface, 3 miles east of Alturas to railroad crossing, 1.4 miles (Modoc county), \$5000.

Oiled rock surfacing, Main Street to East City limits of Alturas (Modoc county), \$5500.

RED BLUFF - SUSANVILLE LATERAL

(Red Bluff to Nevada Line near Purdy's via Susanville)

Oiled surfacing, Mineral to Chester, 31 miles (Tehama and Plumas counties), \$55,800.

Oiled surfacing, Westwood to Willards, 12.8 miles (Lassen county), \$32,000.

Grading, oil rock surfacing, structures, 9.2 miles, Willards to Susanville (Lassen county), \$296,800. This provides for reconstructing and improving a section that is difficult both of maintenance and snow removal.

Oiled rock surfacing from 2 miles east of Dales to Paynes Creek, 7.3 miles (Tehama county), \$96,700.

Oil rock surfacing, 11.4 miles, Lake Almanor to Westwood (Lassen and Plumas counties), \$97,700.

Oil surfacing, Doyle to Long Valley Creek, 7.5 miles (Lassen county), \$18,800.

KLAMATH RIVER LATERAL
(Redwood Highway near Klamath River to Pacific Highway)

Walker bridge and approaches (Siskiyou county), Cooperative project, state's share, \$19,000.

Zeaver Creek bridge and approaches (Siskiyou county), \$48,300.

Grading and bridge replacements, Weitchpec to Happy Camp, \$105,000 (Siskiyou and Humboldt counties).

UKIAH TO MENDOCINO STATE HOSPITAL

Bridge over Russian River (Mendocino county), \$50,000.

BAYSHORE HIGHWAY

(San Francisco to San Jose)

Bituminous macadam pavement from Fifth Ave., San Mateo to Willows Road, 11.4 miles (San Mateo county), \$315,200.

Grading, structures, and bituminous macadam pavement, 9.2 miles, Willow Road to Alviso Road (San Mateo and Santa Clara counties), \$716,850.

Bridge over San Francisco and Stevens Creek, \$65,000.

Concrete pavement, Broadway to 5th Ave., 1 miles (San Mateo county), \$272,450.

These projects continue present pavement activities to San Mateo and provide for construction and surfacing of the remaining sections of the road to a connection with the Alviso Road, 6 miles from San Jose.

SKYLINE BOULEVARD

(San Francisco to Glenwood)

Grading, structures and bituminous macadam, Saratoga Gap to Black Rd., portions, 4 miles (Santa Clara and Santa Cruz counties), \$300,000. This continues the construction of the Skyline Boulevard southerly.

SACRAMENTO-OAKLAND HIGHWAY

Grading, pavement, structures and oil shoulders, 1.7 miles west of Cordelia to 1.7 miles west of Fairfield (Solano county), \$294,000. This will eliminate the last piece of 15-ft. pavement existing on this highway.

Eridges over Ledgewood, Suisun and Knightcross creeks (Solano county), \$25,900.

Filling borrow pits, pavement, and oil shoulders, 1.3 miles, west of causeway (Yolo county), \$70,000.

ALBANY TO MARTINEZ

Grading, structures and pavement, San Pablo Creek to Crockett, excepting Pinole; "A" St. subway, Crockett (Contra Costa county), \$396,000. This project provides for a 30-ft. asphaltic and concrete pavement on the existing macadam highway between Richmond and Crockett.

STOCKTON TO SANTA CRUZ VIA OAKLAND

Grading, structures, and pavement, Castro Valley Road (Alameda county) \$50,000.

Grading, armor top surface, structures, French Camp via McKinley Ave. to Stockton (San Joaquin county), \$50,000. This completes the improvement of the south approach to Stockton through Altamont Pass.

Eridges, over Homestead Canal and Walker Slough (San Joaquin county), \$16,500.

Grading, structures, pavement and shoulders, 5 miles, Greenville to Livermore (Alameda county), \$166,100. This project constitutes an improvement of the westerly side of the Altamont Pass.

Grading, structures, pavement, shoulders, 2.5 miles, Meridian Road to Ware Avenue (Santa Clara county), \$78,000. This will correct reverse curves near Johnson's Corner south of San Jose.

Grading, structures, surfacing (Santa Cruz county), Santa Cruz to 1 mile west, \$60,000.

Grading, structures, surfacing, 6.5 miles, Inspiration Point to Vine Hill Road, portions (Santa Cruz county), \$260,000. This with the item immediately preceding constitutes the first unit in the relocation of the present highway congested Los Gatos - Santa Cruz highway.

SALIDA TO ROUTE 23 AT JUNCTION

(Salida on Valley Route North of Lodi, Through Sonora, Over Sonora Pass to Junction North of

Bridgeport)

Grading, armor top surface, structures, Sonora to one-half mile east (Tuolumne county), \$27,400.

Grading, structures, and oil rock surfacing, Long Barn to Stoddard Springs (Tuolumne county), \$97,000.

Note an additional \$30,000 will be spent on this section from Forest Highway Funds). This continues the improvement from the end of the surfaced road at Long Barn.

SAN ANDREAS LATERAL

(From Golden State Highway, Valley Route, Near Lodi, to Route 23, Near Silver Creek, Calaveras County)

Grading, structures and surfacing, 7.1 miles, Waterloo Road to 1.3 miles east of Clements (San Joaquin county), \$213,000. This project provides for the pavement of the present county-built macadam east of Lodi, taken over by the state when the road was admitted into the state system.

Grading, structures, oil rock surfacing, Big Trees to Dorrington, three miles (Calaveras county), \$104,000. (This is a cooperative project and \$36,000 of Forest Highway funds will be added to the state construction of \$104,000.)

Grading, structures, surfacing near Lake Alpine, 5 miles, portions (Alpine county), \$50,000.

**MANTECA TO ROUTE 5 NEAR
MOSSDALE SCHOOL**

Grading, pavement and structures, 4.2 miles, Mossdale to Manteca (San Joaquin county), \$174,000.

Grade separations, underpass, W. P. Rd. (San Joaquin county), state's share, \$30,000.

This provides for paving the remaining unimproved portion of the road with a grade separation structure beneath the tracks of the Western Pacific tracks.

**PACHECO PASS LATERAL
(Calif., on the Valley Highway to
Gilroy on the Coast)**

Three timber bridges with approaches over Highline Canal and San Joaquin overflow (Merced county), \$51,500.

**REDWOOD PARK ROAD
(Saratoga Gap Near Redwood Park to
Elcoms Mill)**

Grading, structures and armor top surfacing, 3.6 miles, Saratoga Gap to Waterman Switch (Santa Cruz county), \$271,600. This completes the grading to a connection with the improved county road in San Lorenzo Canyon.

**SAN LUCAS TO SEQUOIA NATION-
AL PARK**

Grading, structures and 20-ft. bituminous macadam pavement from 1 mile west of Merryman to 1 mile east of Lemon Cove, 10.4 miles (Tulare county), \$350,000. This constitutes an improvement of the present unsatisfactory county paved road which was taken over by the state when this road was admitted into the state system.

Grading and oil shoulders west of Plaza Garage to county line, 3.5 miles (Tulare county), \$12,000.

CARMEL - SAN SIMEON HIGHWAY

Grading, structures and oil rock surfacing, 5.4 miles, San Remo Divide to Carmel (Monterey county), \$214,000.

Bridge over Carmel River, San Jose and Wild Cat Canyon Creeks (Monterey county), \$85,000.

Bridge over Granite Creek (Monterey county), \$45,000.

Bridge over Garrapata Creek (Monterey county), \$35,000.

Grading, structures and oil rock surfacing, 8.6 miles, Cambria to San Simeon (San Luis Obispo county), \$210,000. This completes the present state highway at southerly end connecting with convict construction to the north. These projects will complete the grading and surfacing of the highway with the exception of a 2 1/2 mile gap between convict camps.

Bridge over San Simeon Creek, Pico Creek, Little Pico Creek, near San Simeon (San Luis Obispo county), \$39,000.

**EAST OF SIERRA HIGHWAY
(Saugus to Route 11 at Alpine
Junction)**

Grading, structures and oil rock surfacing, Yerbus to McGee Creek, 7.3 miles (Mono county), \$243,600.

Grading, structures and oil rock surfacing, Convict Creek to Casa Diablo Hot Springs, 5.5 miles (Mono county), \$120,450.

Grading, structures and oil rock surfacing, Casa Diablo Hot Springs to Deadman Creek, 8.8 miles (Mono county), \$234,900.

Grading and structures from 1 mile north of Bridgeport to Sonora Pass Junction, 15 miles (Mono county), \$261,000.

Bridge over Walker River (Mono county), \$15,000.

All of these projects are in Mono county and located north of Bishop.

**EL RIO TO SAN JUAN CAPISTRANO
(Portion of the Coast Route)**

Grading, structures and pavement, 7.4 miles, Los Flores Canyon to Santa Monica (Los Angeles county), \$510,200. This provides for widening pavement to 40 feet.

Widening pavement, Topanga Canyon to Los Flores Canyon, 3.2 miles (Los Angeles county), \$80,000.

Santa Ana River bridge, widening (Orange county), \$80,000.

Shore protection, Santa Monica to Pt. Mugu, 7.2 miles (Los Angeles and Ventura counties), \$240,000.

**ARROYO SECO HIGHWAY
(La Canada to Mt. Wilson Road via
Arroyo Seco)**

Grading and structures, La Canada to Mt. Wilson (Los Angeles county), \$550,000. This continues construction on this route.

**BEAR LAKE HIGHWAY
(San Bernardino end of County
Pavement to Bear Lake)**

Grading, structures, oil rock surfacing, 5 miles, near Camp Waterman to end of county pavement (San Bernardino county), \$650,000. This completes the grading and surfacing of this highway.

**ARROWHEAD TRAIL
(San Bernardino to Nevada Line Near
Jean)**

Alray grade separation, subway beneath Santa Fe tracks (San Bernardino county), state's share \$30,000.

Gish grade separation, subway beneath Santa Fe tracks (San Bernardino county), state's share \$30,000.

Grading, structures, rock surfacing, from point near Baker to 2 1/2 miles east (San Bernardino county), \$175,000.

Grading, structures, oil rock surfacing, 12 miles, Devore to Alray (San Bernardino county), \$400,000.

These projects combine construction on the main highway leading to Boulder Dam.

**COLTON-LOS ANGELES HIGHWAY
(Grading, structures and pavement,
Pomona to Los Angeles (Los Angeles
county), \$540,000. This is one of the
recommended additional highways.****WEST OF CLAREMONT TO RIVER-
SIDE**

Widening bridge and approaches over Santa Ana River at Riverside (Riverside county), \$150,000.

SAN BERNARDINO TO EL CENTRO

Grading, structures, second story concrete pavement, shonover, Imperial county line to 6 miles north (Riverside county), \$390,000.

This project provides for widening the 15-ft. pavement from the Salton Sea northward on this route.

SAN DIEGO TO EL CENTRO

Pavement of unpaved portions, La Posta to Tecote Divide, 3.3 miles (San Diego county), \$332,000. This completes the paving of the entire distance on the San Diego-El Centro highway.

Grading, structures, pavement, 8 miles, 3 miles west of Coyote Wells to 7 miles west of Dixieland (Imperial county), \$492,400. This project provides for widening the east section of the old 15-ft. highway on this road.

EL CENTRO TO YUMA

Grading, structures, and pavement, 9 miles, Sand Hills to 5 miles west of Yuma (Imperial county), \$441,000. This provides paving the last unpaved section of this route.

MECCA - BLYTHE HIGHWAY

Grading, structures, oil rock surfacing, 16 miles, Porton (Riverside county), \$300,000. This continues construction.

COOPERATIVE PROJECTS

The budget sets up a total of \$1,600,000 for cooperative projects in the southern portion of the state, and an amount of \$500,000 for similar work in the northern portion.

Legislation requesting that the entire elimination of billboards and overhanging signs outside property lines be put to a vote of the people at the August primary has been introduced in the Toledo city council. The legislation provides that in event such legislation is approved the elimination of billboards and signs be completed within 60 days. Factories and business places are exempted in the proposed ordinance. The legislation was referred to the rules committee of council, which has it under consideration.

ALONG THE LINE

H. L. Carnahan of Los Angeles, former lieutenant-governor, has been appointed State Building and Loan Commissioner by Governor Rolph. It will be a temporary service. Commissioner Carnahan has consented to remain on the job until September.

Edward K. Hussey has been appointed chief engineer of Oakland, succeeding George D. Macomber who was elected to the office of surveyor at Stanislaus County at the last general election. R. T. Belcher of Oakland will be a member of Hussey's staff.

Washington County Commissioners (Reno, Nevada), have rejected the proposal of J. C. Durham, newly elected commissioner, to appoint a highway engineer for the county and place him in charge of road construction and maintenance.

A. C. Byer, engineer with the Wallace and Tiernan Co. of Newark, N. J., with Pacific Coast headquarters in San Francisco, spent two days with engineers of the Hawthorne Naval Ammunition Depot in Nevada state, planning the installation of a chlorination plant for the depot water supply.

W. H. Sloan, manager of the Hayward Lumber and Investment Co., at Los Banos, resigned Jan. 1 to devote his time to his farm properties. He will be succeeded by A. E. Anderson, formerly of Paso Robles.

According to word from Lincoln, Calif., A. L. Gladding, has indicated his resignation to the firm of Gladding-McBean & Company, effective January 15, and will become associated with his brothers, Charles and Chandler Gladding, in San Jose.

H. J. Jackson has been installed as paid secretary of the San Joaquin Valley Master Plumbers' Association.

Ira B. Cross, professor of economics of the University of California, in addressing the Pacific Coast Electrical Bureau, pleaded for higher wages, stating that it was the wage earner who had the greater buying power.

A. M. Barton has been reappointed chief engineer and general manager of the State Reclamation Board by Governor Rolph. Mr. Barton, a former army engineer, is now completing his eighth year in the office. He also has served as chief engineer of the American River Flood Control District.

Fresno has fewer civil engineers than the normal ratio throughout the state, Donald M. Baker of Sacramento, president of the State Board of Registration for Civil Engineers, told the Fresno Engineers' Club at a recent luncheon meeting. "The average in the state is one engineer to every 1,000 people," he said. "In Fresno County there are only sixty. California has 5,000. We are planning stricter enforcement of the state law which requires men in charge of design to be registered with our board."

George C. Jacobs and Newton Ackerman, architect, operating under the firm name of George C. Jacobs Company, mill work and building material with headquarters at Elmer, announces dissolution of the partnership. The business will be continued with Jacobs as sole owner.

THE OBSERVER

What He Hears and Sees on His Rounds

Because an automobile can stand the vagaries of the weather when being run or while waiting at the curb, sponsors for a new garage program for Providence, R. I., argue that it can stand being stored in a wall-less garage. They are planning a 4-story one with the first story of conventional construction, with the upper 3 stories under construction, offering 2-story rental space, with the upper 3 stories open to the winds. Other arguments are comparatively low building costs, freedom from carbon monoxide hazards.

According to word from New York City, the Lehigh Portland Cement Co. has reduced the price of cement 10c a barrel in Maryland and the District of Columbia. The cut is understood to meet price shading by smaller companies in the territory.

Under an ordinance adopted by the Redwood City Council, architects will pay the city a license fee of \$12 a year. The ordinance provides a penalty of \$300 and a 90-day jail sentence in the event of violation.

Bank executives of the country emphatically agree with President Hoover that home building and home buying form a great and desirable channel for return to normal creative employment of capital and to normal prosperity. Statements from executive heads of leading banks and trust companies made to the National Association of Real Estate Boards in response to a telegraphic inquiry sent out last week, and made public by Herbert U. Nelson, executive secretary of the Association, heartily endorse the President's position. They assure the support of the financing agencies they represent in a continuing movement toward residential activity. The opening of such a movement is already indicated.

A proposal to create a method through which qualified real estate appraisers could be certified as such will come before the National Association of Real Estate Boards at its annual meeting, to be held in St. Petersburg, Florida, January 15, 16 and 17.

The proposal will come before the meeting in a report to be made to the executive committee of the Appraisal Division by Philip W. Kniskern, of New York. Mr. Kniskern is chairman of a special committee appointed some months ago by the Division to work out and bring before the coming meeting a tentative plan for certifying or otherwise attesting qualified valuers of real estate.

The proposed plan, after discussion by the Appraisal Division at a meeting of its executive committee, will be brought before the general delegate body of the Association.

Attestation of qualified appraisers by a group of their peers is proposed to advance the work of establishment of standards of practice for the appraisal of real property and to further safeguard the public in all matters in which the accuracy and soundness of the real estate appraisal is the key factor.

Threat to campaign against the proposed \$300,000 San Mateo Union High School bond issue for school extensions was made at a mass meeting held by citizens, unless steps are tak-

en to hire local workmen on the new building. Labor union representatives state that county workers have not been protected heretofore in public and civic projects.

If the opinion of members of the Fresno County Board of Supervisors is followed, the construction of additions to county hospital, for which bonds of \$250,000 were recently voted, will be carried on under the segregated contract plan rather than under a general contract. Each member of the board expressed himself as favoring the segregated bid system.

A survey of the operations of 29 retail lumber yards in Colorado and Wyoming by the University Extension Division, University of Colorado, in cooperation with the Mountain States Lumber Association, shows a gross business of \$3,448,169 for the year 1929. The total cost of merchandise was 73.5 per cent, the total expense was 19.5 per cent and the net profit was 6.25 per cent. The net profit of the same yards for 1928 was 7.2 per cent and for 1927 was 7.5 per cent.

Tacoma, Wash., Section of the American Society of Civil Engineers has gone on record as favoring the proposed state license law for the engineering profession to be submitted to the Washington State Legislature this month. The measure was killed in committee at several previous legislatures.

After several amicable meetings with employers of union journeymen, members of Plumbers' Local No. 78, Los Angeles, adopted the five-day week. Under the terms of the present agreement the old established rules of the local prohibiting members to contract labor or work on the piece work basis were reaffirmed.

Efforts will be made in Washington State to put a bill through the Legislature increasing the tenure of office of county commissioners of that state. The bill will be sponsored by the Washington State Association of County Commissioners and the Washington State Association of County Engineers. Under the present law, county commissioners may serve only two successive terms of two and four years, respectively. The commissioners' organization proposes to lengthen these terms to four and six years, respectively, increasing the possible tenure of office from six to ten years.

Underestimating the cost of the proposed improvements may seriously upset the financing arrangements of the property owner and may easily be the forerunner of many troubles, it is set forth in the lesson on financing the home in the general real estate course given jointly by the California Real Estate Association and the University of Southern California. One should never attempt to build without having a plan that satisfies him and that is complete in all details. The specifications in particular should be complete, especially as to those details which if overlooked, are likely to lead to extras which have not been included in the estimated or contract price.

The Oakland city council has approved final passage of an ordinance requiring the installation of gasoline storage tanks inside property occupied by service stations instead of under sidewalks. Trucks must load tanks while parked inside property lots instead of from the streets.

"Those who may be entertaining the belief that federal government officials at Washington are not doing all possible to expedite the nation's public building program are mistaken in such assumption," says John Graham, Seattle architect, who recently returned from Washington, after conferring with the U. S. Treasury Department on plans for the proposed Marine Hospital at Seattle. Mr. Graham, associated with Bebb & Gould, Seattle architects, is preparing plans for the new hospital which is estimated to cost \$1,750,000.

The Building Trades Employers Association of Pittsburgh, Pa., announced adoption of a plan of rotation of available employment in those trades among men now at work and those out of jobs. The plan, F. O. Reed, association secretary, said, is expected to provide part-time work for 5000 of the 11,000 building trades workers estimated to be unemployed in Pittsburgh. Under the scheme, the men will work in alternate weeks, preference being given former employees of individual concerns.

State participation in construction of the Golden Gate bridge, which would connect San Francisco with Marin County, is sought in a bill introduced in the assembly by Frank L. Gordon, Suisun.

Under provision of the proposed measure the state would participate with funds either now available or from a special appropriation to be asked of the legislature.

The amount of the money the state would expend under the provision of the bill has not been determined. The act would provide for allocation of costs by a committee composed of members of the bridge district, boards of supervisors of the counties which comprise the district and state department of public works.

Gordon said it was too much to expect for the counties and the district to stand the entire cost of the bridge and consequently he is asking the state to aid in the project.

Unemployed are urged to stay away from Sunnyside, Santa Clara County, the site of the proposed naval dirigible base. M. B. Eaton, secretary of the Sunnyside Chamber of Commerce, announces that the unemployed have been given to understand that registration of men is underway for employment on the project. Such is not the case.

Under a decision just made public by the Interstate Commerce Commission in the case of the Blue Diamond Company of Nevada against the Santa Fe Railroad et al, the rate on gypsum in carloads from Arden, Nev., to Monmouth, Calif., is held unduly prejudicial to the complainant. An order has been issued that the rate in the future shall not exceed 12 cents per 100 pounds, subject to a carload minimum of 30,000 pounds.

Spanish Peak Lumber Company, operating a large mill in Meadow Valley, near Quincy, Plumas County, reduced wages 10 to 15 per cent effective as of January 1. Notices to employees said the reduction conformed to the downward trend in the price of manufactured lumber. Prices at the company boarding house also were reduced from \$1.35 a day to \$1.20.

TRADE NOTES

A. M. Mortensen, president of the San Jose Chamber of Commerce, announces the organization of A. M. Mortensen, Inc., for the manufacture of the Cuthbert air compressor, the invention of a San Jose man. In addition, the company will distribute a complete line of service station construction, management and maintenance. A plant has been leased at 138 Stockton avenue, San Jose.

Western Door & Sash Company of Oakland has opened a San Francisco office at 320 Santa Maria Building, 112 Market Street. R. S. Grant for many years connected with the old California Door Company, is manager of the San Francisco branch. The company carries a complete line of sash, windows, doors, panels and built-in fixtures.

Brownson Patents, Ltd. has been organized in Fresno to manufacture and market gas heater, appliances and devices. Stockholders in the company are Walter E. Bruns, W. H. Moeller, J. C. Hammel, M. L. Hoff, J. F. Moody, Charles G. Connors, Kenneth R. Brown, F. H. Gonsalves, Warren G. Moody, J. Herrera, Hugh G. Rodgers, Arsen M. Thomas, Forest L. Brown, R. W. Millard, L. J. Kenalyan, Ernest Scribn'r, Mrs. Waldo Shipman, W. G. Donovan, H. S. Cedarquist, M. K. Gibbs and W. E. Backlund.

Agency for the Pacific line of deep well turbine centrifugal pumps in the territories surrounding Tulare, Hanford, Visalia, Lindsay, Tipton, Corcoran, Exeter, Porterville, Pixley and Earlham has been taken by the Lindsay Pump and Machinery Co. of Lindsay, Calif. A branch office has been opened in Tulare with Harvey Sherwood in charge.

The American Holist and Derrick Company, having closed their branch office in Emeryville, Calif., announce the appointment of Harroon, Rickard & McCone Co. of 1600 Bryant St., San Francisco, and 2205 Santa Fe Ave., Los Angeles, as their exclusive representatives in the sale of their line of hoisting equipment, consisting of electric, steam and gasoline hoisting engines, slewing engines, derrick irons, sheaves and blocks. Stocks of equipment and repair parts will be carried in the San Francisco and Los Angeles warehouses of Harroon, Rickard & McCone Company.

A machine to mix material on the road for oiled surfacing of highways has been successfully used on a state highway job in Montana, according to

Fowler & Myers Company, manufacturing concrete pipe, have started operations in the new plant in Kings City, Monterey County. The company also operates similar plants at Somas and San Fernando.

R. J. Cordner, Northwest manager of the Edison General Electric Appliance Co., Inc., 2032 Second Ave., has been named Pacific Coast manager of the company with headquarters in San Francisco. He succeeds Ray Turnbull who was promoted to the vice presidency of the Edison company and who hereafter will be located in Chicago. Cordner's place in the Seattle office will be filled by J. C. Platt.

BUILDING PERMIT STATISTICS OF PACIFIC COAST CITIES FOR THE MONTH OF DECEMBER, 1930 AND 1929, AND FOR THE YEARS 1929 AND 1930 AS REPORTED BY BUILDING DEPARTMENT EXECUTIVES OF THE CITIES REPORTED.

CALIFORNIA

City	December, 1930		Year, 1930		Year, 1929	
	No.	Cost	No.	Cost	No.	Cost
Alameda	45	\$ 148,332	\$ 47,289	\$ 878,362	\$ 1,404,415	
Alhambra	62	117,750	237,175	793	2,015,855	
Anaheim		38,813	17,185	528,416	472,954	
Pakersfield	65	78,350	78,775	717	1,487,085	
Berkeley	75	129,831	168,818	1540	2,986,789	
Bev'ly Hills	64	299,400	364,600	1057	6,266,890	
Burbank	37	180,250	36,285	359	988,634	
Burlingame	16	52,850	23,500	176	756,122	
Carmel	8	8,115	12,200	148	228,260	
Chula Vista	20	13,625	8,330	149	119,340	
Colton	9	3,600	2,000	119	118,250	
Coronado	12	14,337	3,027	166	264,826	
Emeryville	4	6,100	850	51	228,450	
Eureka	30	144,372	63,040	401	659,916	
Fresno	131	89,235	112,574	1410	1,451,991	
Glendale	70	191,265	153,810	1231	3,409,701	
Hayward	4	4,575	3,965	92	258,475	
H'ng'tn Pk.	28	43,781	80,310	519	1,588,529	
Inglewood	23	67,035	29,850	399	823,931	
Long Beach	287	744,105	1,103,305	5099	13,480,380	
Los Angeles	2056	5,233,225	3,992,459	90612	74,088,725	
Los Gatos	4	475	81	75,178		
Lynwood	16	22,275	45,275	214	637,605	
Modesto	21	26,130	93,753	358	555,637	
Monrovia	14	9,140	16,000	210	328,657	
Montebello	18	16,775	19,550	125	228,397	
Monterey	26	46,200	33,165	344	504,769	
N't'l City	167	107,769	3,940	326	215,318	
Oakland	247	1,063,546	485,717	3890	9,184,768	
Oceanside	13	6,897	22,560	150	113,367	
Ontario	19	19,150	49,135	255	671,926	
Orange	15	59,417	4,950	129	203,877	
Pac. Grove	10	15,450	19,650	178	311,025	
Palo Alto	36	94,450	116,610	514	1,385,423	
Pasadena	455	313,741	298,872	4026	8,944,751	
Piedmont	9	27,095	95	270		
Pomona	32	10,563	4,650	142	629,112	
Redlands	35	30,590	62,175	727	1,254,839	
Redw'd City	23	20,554	22,618	206	666,313	
Richmond	23	76,860	25,541	334	859,627	
Riverdale	24	49,956	10,665	524	628,782	
Riverside	52	166,183	191,623	614	1,665,878	
Sacramento	119	286,695	117,359	1785	3,662,363	
Salinas	47	41,148	89,215	477	1,215,748	
San Fran'co	345	2,292,888	1,617,691	6541	23,726,994	
San E'n'do.	54	130,651	75,170	710	1,855,646	
San Diego	263	394,150	780,535	4060	5,895,252	
San Gabriel	7	15,345	24,900	148	412,336	
San Jose	48	200,450	77,730	744	3,428,000	
San Leandro	12	19,050	63,100	200	499,907	
San Marino	6	18,895	185,176	189	2,015,744	
San Mateo	10	42,930	77,900	325	1,497,845	
San Rafael	17	17,090	35,675	147	592,178	
San Ana	107	97,118	158,935	846	2,154,943	
S'ta Barbara	80	118,186	126,186	1237	2,997,390	
Santa Cruz	18	11,802	33,755	352	520,908	
S'ta Monica	59	98,145	95,676	256	2,406,541	
Santa Rosa	15	33,875	10,255	322	413,256	
South Gate	24	33,056	372,475	494	1,334,148	
So. Pasada'n.	10	10,425	43,840	865	458,306	
Stockton	61	84,975	53,947	665	1,317,528	
Torrance	10	8,058	23,525	164	420,387	
Vernon		74,300	92,635		802,097	
Ventura	12	11,650	49,700	200	817,326	
Watson's	19	83,570	19,250	204	447,050	
Willow Glen	5	16,300		153	590,885	
Total	3634	\$13,995,141	\$12,396,747	80025	\$195,812,320	\$251,117,570

ARIZONA

Phoenix	51	\$ 396,636	\$ 485,145	852	\$ 3,001,066	\$ 5,248,674
Tucson	80	78,630	245,690	1099	2,096,345	3,450,922
Total	131	\$ 474,666	\$ 730,835	1951	\$ 5,097,411	\$ 8,699,596

IDAHO

Boise	35	\$ 16,471	\$ 76,830	828	\$ 1,776,624	\$ 1,052,965
Lewiston	19	37,385	5,550	253	872,585	570,251
Nampa	14	14,045	14,605	286	298,137	320,406
Total	68	\$ 70,901	\$ 96,985	1367	\$ 1,454,446	\$ 1,943,622

NEVADA

Reno	22	\$ 44,950	\$ 268,300	435	\$ 1,222,735	\$ 2,120,900
Alhany	7	\$ 10,045	\$ 1,575	71	\$ 144,852	\$ 209,655
Astoria	12	696	6,513	228	95,001	93,153
Corvallis	12	10,090	650	194	312,400	206,265
Eugene	35	20,959	61,783	645	839,774	564,112
La Grande	3	2,750	13,350	131	446,525	206,272
Marshfield	7	4,270	2,950	81	141,002	165,455
Portland	391	669,415	513,225	6043	12,063,580	15,493,310
Salem	28	32,187	23,801	558	562,402	2,063,792
Total	495	\$ 749,422	\$ 625,747	7951	\$ 14,542,636	\$ 19,156,014

UTAH

Logan	1	\$ 3,000	\$ 35,000	42	\$ 282,585	\$ 353,800
Ogden	4	11,225	7,000	229	579,760	709,695
Salt Lake	57	135,514	376,738	950	3,116,243	5,670,891
Total	62	\$ 149,739	\$ 418,738	1221	\$ 3,978,588	\$ 6,725,386

WASHINGTON

Aberdeen	10	\$ 11,990	\$ 150,075	383	\$ 393,470	\$ 838,479
Pellinham	20	11,620	24,645	588	743,915	1,769,738
Everett	37	93,345	56,855	807	825,805	1,344,455
Hogium	4	15,475	3,290	267	128,052	477,793
Longview	3	2,150	3,920	108	878,638	551,991
Port Angeles	11	10,375	38,175	236	390,765	404,265
Seattle	413	5,041,325	1,378,175	6649	30,848,905	29,194,770
Spokane	77	337,230	124,331	1150	3,730,843	4,148,210
Tacoma	118	113,720	277,090	2348	4,551,471	4,761,231
Vancouver	8	1,620	12,485	255	222,343	487,196
Walla Walla	16	79,867	1,985	271	463,542	282,741
Wenatchee	13	55,350	26,833	261	911,280	2,130,325
Yakima	33	34,480	30,095	557	1,648,185	1,242,705
Total	763	\$ 5,805,647	\$ 2,122,556	14880	\$ 45,371,774	\$ 47,560,399
Grand Total	5255	\$21,277,466	\$16,660,308	107830	\$267,478,010	\$347,323,487

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1684).

R-3453-S SALESMAN, experienced, with a fair amount of technical training and good knowledge of character of metals, to sell roundry products. Must have qualities of leadership in sales department Salary open. Location, San Francisco.

R-3452-S SENIOR PERSONNEL EXAMINER for Engineering and Trades positions. Should be graduate civil or mechanical engineer with special training and experience to qualify for testing of applicants for technical position. Age limits, 25-50 years. Salary \$250-\$300 month. Apply by letter for full details. Location, California.

R-3309-S - ENGINEER, mechanical or electrical, not over 30, with 3-5 years experience on hydro-electric plant operation for service and testing. Must have mechanical skill, agreeable in field. Apply by letter. Headquarters, San Francisco.

R-3308-S - ENGINEER, preferably mechanical or chemical graduate, with 5 to 10 years experience including considerable application of thermodynamics to solution of heat exchange problems as found in oil refinery equipment. Must have executive ability. Apply by letter with details of experience, references and photo. Salary \$200-\$250 per month to start. Location, Northern California.

K-337-V-2182-C-S SPECIALISTS on oil well drills, drilling machinery and equipment. One designer, technical graduate, experienced on machine shop production man; one tool man for machining operation; one forge-shop foreman; one heat treator. Salaries open, will be based upon earnings in U. S., subject to Russian income tax, about 10%. Pay payable in U. S. money to American bank. Contract for 1 or 2 years, renewable. Applications only by letter showing education and details of experience. Location, Russia.

K-338-V-2183-C-S SPECIALISTS on oil cracking equipment, boilers, bubble-towers, evaporators, piping, etc. One degasser, graduate; one production foreman; one welder foreman and instructor; one field man for erection, etc. of stills, towers, etc.; one foreman for pipe fabrication and installation; one field man for installation of valves, etc.; one field man for installation and adjustment of control and measuring apparatus; one electric foreman for steel foundry; one open hearth steel foreman for melting and casting of alloy and special steel ingots. Salaries open, based on earnings in U. S. Entire salary subject to Russian income tax of about 10%. Contract for 1 or 2 years, renewable. Applications only by letter showing education and details of experience. Location, Russia.

Barnewitz Painting and Decorating Co. has opened new quarters at 521 Marin Street, Vallejo, and will carry a complete line of stocks for the wholesale and retail trade including Superior Enamel and Morover paints of the Friedman Paint Company of Oakland.

HERE—THERE EVERYWHERE

C. W. Fairbanks was elected president of the San Luis Obispo County Builders' Exchange at the annual meeting of that organization held Tuesday. W. J. Charters was elected vice-president and James Jepson, treasurer. H. J. Kyle was elected sergeant-at-arms. Directors are James Quagline, H. M. Holzinger, Robert Forbes, W. A. Charters and Ross MacMillan.

Installation of officers of the San Luis Obispo County Builders' Exchange was held last week with a banquet at the Anderson Hotel in San Luis Obispo. Officers installed were: President, C. W. Fairbanks; Vice-President, W. J. Charters; Treasurer, James Jepson; Sergeant-at-Arms, H. J. Kyle. Board of Directors—Ross MacMillan, H. M. Holzinger, W. J. Charters, Robert Forbes, James Quagline. Executive Secretary, J. F. Sobeck.

O. J. Amberg of Spokane was re-elected president of the Northwest Branch, Associated General Contractors of America, at the close of the annual convention held in Seattle, January 10. J. A. Lyon, Spokane, was elected treasurer, and J. M. Clifton, Spokane, corporate secretary. The heads of three chapters, Portland, Spokane and Seattle, will, as according to custom, serve as directors of the Northwest branch. Geo. D. Lyon is president of the Spokane chapter, James Murock of the Seattle group and W. T. Jacobsen of the Portland chapter.

Basalt Rock Company of Napa, has leased property in South Vallejo and will establish a plant to serve as an all-rail-and-water outlet to and from its plant near Napa.

TRADE LITERATURE

Durabilt Steel Locker Co., Aurora, Ill., has issued a 16-page illustrated catalogue with A. I. A. file cover featuring the solution of gymnasium storage problems which has been reported from recent issues of the Journal of Health and Physical Education. Copies of the booklet, of particular value to architects specializing in schools, halls and society buildings, churches and hospitals, will be sent upon request.

The complete line of Westinghouse electric service plants is described and illustrated in an eleven-page folder, identified as MK 1284, recently published by the Westinghouse Electric & Manufacturing Company. These electric plants are made in several sizes, from which the correct size for any of a number of applications may be chosen. Supplying power for farms, rural homes, camps, boats, stores, buildings, amusement parks, mines, quarries, and motion picture theatre are some of the applications of these plants. This new publication includes in addition to the electric plants, a brief description of Westinghouse Batteries for use with the service plants and a page on Westinghouse water systems.

During the past year 114 new industries were established in San Francisco as compared with 90 during 1929, according to the Industrial Department of the Chamber of Commerce. Although these new plants, with 1094 people on their pay rolls, employed 250 fewer people than those established during 1929, their estimated annual pay roll of \$2,209,800 exceeds by \$169,890 the estimated pay roll of the new plants started in the previous year.

PURPOSES OF TIMBER STRESS COMMITTEE TOLD

F. O. Dufour of Philadelphia, Pa., chairman of the recently appointed subcommittee of the National Committee on Wood Utilization of the Department of Commerce, for the purpose of passing in working stresses for timber, believes that in the establishment of such a body an important step has been taken toward solving one of the most perplexing problems confronting the lumber and building industries.

"Through voluntary co-operation between the lumber industry on the one hand, and the consumer groups represented on the committee by some of the nation's foremost engineering talents on the other, it is hoped that many of the existing uncertainties pertaining to timber stresses will be eliminated," Mr. Dufour stated.

For centuries, it was pointed out, engineers and builders have struggled with the problem of the efficient use of wood. Unlike most other building materials, wood is not of a homogeneous nature. There are in this country alone more than on hundred different species, most of which are used in building and construction. Each has its own peculiar characteristics and properties with which the consumer must be familiar in order to obtain the most effective and economical use of the material. Fortunately, the problem is somewhat simplified by the fact that only a few of the most important species are commonly used for structural purposes where stress values play an essential part.

"Realizing the great need for definite data on the strength properties of the various species of wood," Mr. Dufour continued, "the United States Governments through its Forest Product Laboratory at Madison, Wisconsin, has conducted hundreds of thousands of tests. Consequently, there is available in the subject of timber stresses a mass of information which now needs to be adapted to current grades of lumber produced."

It was explained that some years ago the Forest Products Laboratory recommended definite working stresses applicable to the various basic grades of timber of the different species. These recommended stresses, however, do not apply in most instances to present day grading practices, for the lumber manufacturers during recent years have made certain changes of grades in order to make their product more adaptable to the specific needs of consumers. Confusion as to working stresses of commercial grades has developed.

"It is obvious that the Forest Products Laboratory, which primarily is a research organization, with its multitudinous responsibilities cannot be expected to bear the burden of interpreting and applying to commercial grading practices the stress data which it develops. The new Timber Stress Committee, therefore, will be a valuable aid to the laboratory in making practical use of its findings," Mr. Dufour concluded.

Establishment of such a body as the Timber Stress Committee, while a new departure in the lumber field, is not an experiment in other industries. The steel industry, for one, has had for a number of years the advantages of a similar organization, passing on the stress values of steel grades which it develops.

The new subcommittee, according to officials of the National Committee on Wood Utilization, is a logical follow-up to the successful consummation of the standardization program of the Department of Commerce definitely

fixing lumber sizes and grades in accordance with American Lumber Standards. It is difficult to conceive of another item on the program of the Wood Utilization Committee which would have a more important bearing on the proper utilization of the country's timber resources, it was said.

PORTLAND PLANS MUNY POWER PLANT

Portland, Oregon, city council has adopted a resolution providing for "immediate action" that Portland might have a municipally owned power and light plant. The resolution was introduced by Ralph C. Clyde who was elected on a public ownership platform. The vote was 3 to 2.

The resolution declared the council in favor of a municipally owned and operated power system; authorized Clyde as commissioner of public utilities to proceed immediately with investigation of a feasible method, and called on the council to make available any or all of the \$25,000 recently appropriated for power survey purposes.

JACOBSEN HEADS MONTEREY EXCHANGE

Andrew Jacobsen was re-elected president of the Builders' Exchange of Monterey County at the annual meeting of that organization last Wednesday evening.

Other officers re-elected include Fred Ruhl, Pebble Beach, vice president; Dio Dawson, Carmel, secretary; Harold Prince, Monterey, treasurer; and Joseph Goodrich, Monterey, sergeant at arms. The executive board will consist of Ed Simpson, Pacific Grove, Ruhl, John McNeil, Monterey, and Fred J. Monterey and Hugh Comstock, Carmel.

In addition to selecting officers for the year the exchange organized its 1931 program of activities.

GLASS DEVELOPED AS A BUILDING MATERIAL

America knows glass as something with which to fill window frames. In Europe, particularly in Germany, it is being used to replace concrete blocks, brick, hollow tile, plaster, and other materials commonly employed for exterior and interior walls and partitions, the Business Week reports.

The Siemens Glass Works of Dresden, Germany, has been especially active in developing new types of glass, and through its American representatives, the Structural Glass Corp. of New York, American builders will be able to include this new material in their plans. The Siemens Co. supplies prisms for sidewalks, floors, and roof lights; tile for windows, walls, and partitions; hollow block for walls and partitions.

MASTER PLUMBERS OF S. F. ELECT OFFICERS

I. V. Young of the Gilley-Schmid Co. was re-elected president of the Master Plumbers' Association of San Francisco, at the annual meeting held last month. Chas. Mayer of Albhach & Mayer was re-elected vice-president, Alexander Coleman, treasurer and Jack Camp, re-elected secretary.

Directors of the association, including the above named, are: Wm. J. Monihan, Louis Bernstein, Jas. H. Plinkerton, Jos. Rohr, A. G. Trezise, S. F. De Vecchio, N. J. Cohen, Wm. P. Gross, Chas. Noury, Roy Murray and V. J. Peterson.

MONTEREY BUILDERS TO WORK WITH UNIONS

Continuation and strengthening of the amicable relations which exist between the Builders' Exchange of Monterey county and the Building Trades Council, representing organized labor, occupies first place in the exchange program for 1931 according to Andy Jacobsen, president.

"We have been operating harmoniously for a year now with committees of the Builders' Exchange and Building Trades Council co-operating," Jacobsen said, "and we shall do everything in our power to continue this satisfactory relationship."

Jacobsen, who was president of the exchange in 1930 was re-elected at a meeting last week. Other officers re-elected include Fred Ruhl, Pebble Beach, vice-president; Dio Dawson, secretary; Harold Prince, Monterey, treasurer; and Joseph Goodrich, Monterey, sergeant at arms. The executive board is composed of Ruhl, Ed Simpson, Pacific Grove; Charles Frost, Monterey; John McNeil, Monterey, and Hugh Comstock, Carmel.

ADVERTISING URGED TO WIN THE PUBLIC

Speaking at the recent meeting of the Millwork Institute of California, C. H. White, vice-president and general manager of White Bros., San Francisco, said:

"Is it not a fact that the woodworking industry must increase its advertising efforts to the general public does not understand it. Isn't even interested in it, and doesn't know that it exists? The people who are competing against us have taken the pains to put themselves before the public in a favorable light.

When good times resume, I think we will all admit that times are bad, but we hope they are convalescing; and our competitors in substitutes are looking for these general times, too, and are preparing for them; I believe that the woodworking industry must increase its advertising efforts to the general public. I might say in passing that one of the principal things which will bring on normal conditions of business is the passing on to the consumer of the reduction in wholesale prices of material. The hardwood dealers are passing the reduced sawmill prices on to the planing mills, and I just want to leave this little thought with you—that is, you should pass these reduced prices to your customer. I think this is a necessary thing to do to bring back good times and when everybody does it, we will be back to normal again."

CELOTEX ANNUAL REPORT IS ISSUED

Earnings of the Celotex Company for the fiscal year ended October 31, 1930, amounted to \$1,017,497.30 before depreciation, fixed charges and Federal taxes, the annual report to stockholders states. After writing off \$479,970 for depreciation, \$255,448 for interest charges, including amortization of discount, and expense on funded debt, and \$38,000 for Federal income taxes, a net profit of \$24,079 was carried to surplus.

During the fiscal year total net sales decreased 17 per cent.

The balance sheet as of October 31, shows total assets of \$17,129,094. Current assets of \$2,982,094 compare with \$1,144,393 of current liabilities.

SACTO. ARCHITECTS FORM ORGANIZATION

Practicing architects in the Capitol City have completed organization of a new association known as the Society of Sacramento Architects.

Leonard F. Starks of the firm of Starks & Flanders, is president of the society, Harry J. Devine is secretary, and Charles E. Dean is treasurer.

The organization has an initial membership of nine practicing architects. There are about twenty-three architects in Sacramento County.

In discussing the aims of the society, Mr. Starks said the organization will make a strong effort to have the federal government distribute to architects the jobs of preparing plans and specifications for new federal buildings, thereby speeding construction.

The society also will favor legislation beneficial to the building trades and aid in the revision of several existing ordinances governing the erection of buildings, which were deemed inadequate to meet current needs and which, in many cases, work a hardship on the public as well as creating many unnecessary responsibilities on the part of city officials.

It will work as a sub-committee on legislation concerning highway beautification, involving landscaping, signboard regulation and the erection of small business buildings along the sides of roads.

The society will favor standard contracts and documents and standard practices of payments to contractors on building projects, so sub-contractors and material dealers will be protected properly and the building industry, in general, will be placed upon a thirty-day cash basis.

Mr. Starks said the organization will work in conjunction with the State Association of California Architects and the State Board of Architects.

STATE'S MINERAL PRODUCTION IN 1930

The total value of the mineral production of California for the year 1930 is conservatively estimated by the statistical division of the State Division of Mines under the direction of Walter W. Bradley, State Mineralogist, to have been \$347,797,000. This is, in part, detailed in the tabulation here, but, as there are more than fifty mineral substances on California's commercial list, it is impracticable at this early date to obtain definite figures on other than the more important items. The blank report forms are being mailed to the operators in all mineral lines, and the detailed and complete report will be compiled and published later.

The estimated total of \$347,797,000 is a decrease of approximately \$84,450,000 from the value of 1929 production. The decrease is due mainly to petroleum and in a smaller measure to cement, copper, structural materials in general, industrial materials, and salines. Increases in value were shown by natural gas, gold, and lead. There was a decrease of approximately 64,000,000 barrels in quantity of crude oil, with the average per barrel practically the same as for 1929.

The structural group showed about a 20% decrease throughout on account of lesser construction work during the year. The industrial and saline groups show decreases total.

The estimated values and quantities for 1930 are as follows: \$9,034,000, gold; \$557,000 (1,445,000 fine oz.), silver; \$3,238,000 (26,113,000 lbs.), copper; \$1,121 (3,423,000 lbs.), lead; \$11,100,000 (10,500 flasks), quicksilver; \$225,-

nese, platinum, tungsten; \$251,000,000 (228,300,000 bbls.), petroleum; \$30,855,000 (425,000,000 M. cu. ft.), natural gas; \$16,862,000 (10,282 M. bbls.), cement; \$15,000,000, crushed rock, sand, and gravel; \$500,000, brick, and hollow building tile; \$473,000 (45,000 tons) magnesite; \$1,250,000, other structural materials including granite, lime, etc.; \$5,700,000, miscellaneous industrial minerals; \$8,000,000, salines, including borates, potash, salt, soda, etc.

PAINTERS ATTEMPT UNEMPLOYMENT AID

A resolution designed to aid the unemployment situation has been passed by the Seattle chapter of the Northwest Master Painters Association, Inc. The resolution follows:

Whereas, the unemployment situation in our industry is very acute and threatens to become worse in the approaching winter, and

Whereas, President Hoover has appointed a committee on unemployment headed by Mr. Woodrow Wilson,

Whereas, this committee is doing everything possible to alleviate this unemployment situation, and

Whereas, the Seattle Chapter of the Northwest Council of the International Society of Master Painters and Decorators, Inc., as an employer's organization is desirous of assisting the President of the United States in his efforts to alleviate this situation, and

Whereas, the Seattle Chapter of the Northwest Council of the International Society of Master Painters and Decorators, Inc., at its meeting of December 10th expressed its sympathy with this movement,

Now, therefore, be it resolved that the Seattle Chapter of the Northwest Council of the International Society of Master Painters and Decorators, Inc., during the coming winter, they designate the unemployment of their men to the end that as many men as possible may find employment, and be it further resolved that it shall be understood by a member to employ a man temporarily unemployed as a result of this resolution.

And, be it further resolved that a copy of this resolution be read to the members at its next regular meeting and also that a copy be forwarded to the Secretary of the International Society and to the President.

MORTGAGE CONCERNS AND MATERIAL MEN WILL DISPUTE LIENS

A discussion between the mortgage companies and the building material dealers of Oregon state will be held on the floor of the legislature at Salem this month.

A bill, backed by several of the mortgage and loan companies, it is said, is to be presented providing for the amendment of section 10193, Oregon laws, to change the priority of the liens on material and make them subordinate to mortgages and other incumbrances.

If the amendment carries, according to many, material men will not be deprived of a lien, but will have one inferior to labor liens and mortgages.

A direct threat to the building trade is seen in the proposal by building material men who are combining efforts to combat the act in the legislature.

A direct mail appeal is being made by the material dealers of Portland urging that the measure be killed. The Lumbermen's Association of Spokane, Wash., is said to have joined the Oregon dealers in the fight to kill the proposed legislation.

METAL CONGRESS PROGRAM OUTLINED

Numerous items of interest to the building industry have been included on programs of the Western National Metal Congress, to be held February 16 to 20 in the civic auditorium, San Francisco, according to officials of the American Society for Steel Treating.

Discussions of chromium steel, stainless products and rust resistants as applied to trims for structural work will be found in plenty on the five days of technical programs, according to W. H. Eisenman of Cleveland, secretary of the society.

One of the speakers, A. F. Davis, of Cleveland, has been assigned to talk on structural arc welding, as a substitute for the noisy riveting hammer in erecting building frames.

The Western National Metal & Machinery Exposition, according to Eisenman, will feature many new metals, especially designed for the builder, and shows will take place on the same dates as the convention of technical men, and will be held in the same building.

Nitriding, new process by which extreme hardness and smoothness is obtained in steel by injecting nitrogen from ammonia into the metal's pores, will be discussed in full by several speakers, with a view to making the talks apply to building operations, it is said.

J. H. Knapp, of Los Angeles, and Dr. O. E. Harder, of Battelle Memorial Institute, Cleveland, have been assigned to cover this topic in detail.

Probably 50 talks will be included on the five days of technical sessions, according to Eisenman. These will be timed in such a way that they will not interfere with inspection of the exposition. In the display, many of the booths will have machines in operation to add to the clearness of the demonstrations.

Speakers will include J. H. Watson of Detroit; A. E. d'Arcambal, Hartford; J. Owen Fulton, Cambridge; B. F. Shepherd, Philadelphia; W. J. W. B. Coleman, Philadelphia; F. B. Drake, Berkeley, and Dr. Harder.

At least thirteen prominent technical societies will participate in the convention and exposition. They are, in addition to the steel treaters' group: American Welding Society, American Chemical Society, Institute of Metals, American Institute of Mining and Metallurgical Engineers, American Society of Mechanical Engineers, National Purchasing Agents' Association, Pacific Coast Electrical Association, Pacific Coast Gas Association, Society of Automotive Engineers, American Society for Testing Materials, National Association of Power Engineers and American Institute of Electrical Engineers.

STATE LABOR LAWS LAUDED BY FRENCH

Will J. French, State Director of Industrial Relations, last Monday outlined some of the work that labor legislation in California has accomplished in recent years in an address before members of the San Francisco Electrical Development League.

Principally, he said, it has established the security, promoted the welfare and prevented the exploitation of working men and women. In addition, it has made working conditions so much more favorable, less dangerous, and less that the death rate from accidents and other causes has been kept down to the same level it held fifteen years ago despite the enormous increase in the number of workers.

LIGHTING STANDARD REJECTION UPHELD BY LOS ANGELES JUDGE

Refusing a peremptory writ to compel city Engineer Hooper of Pasadena to accept the electric lighting and trolley posts installed on Lake Ave. in a \$180,000 improvement, Superior Judge Yankwich held that the courts will not substitute their judgment for that of a city official exercising discretionary power on reasonable grounds, says Southwest Builder and Contractor. The writ was sought by G. W. Bond & Son and Dusey & Breitstein, contractors. The Marbelite Company was brought in as a defendant.

City Engineer Hooper refused to accept the posts installed on the ground which were not in compliance with the specifications. A personal inspection of the posts was made by Judge Yankwich.

Judge Yankwich held the city engineer is sole judge as to interpretation of all specifications.

"Even if we should reach a different conclusion the writ could not issue," Judge Yankwich said. "For we cannot substitute our judgment for his except where there is no reasonable ground to justify his decision other than one way."

The judge held that the engineer's position may be sustained on the assumption when the specification requirements are satisfied, Hooper would not deliberately refuse to accept the work upon a ground not sanctioned by law. The opinion sets forth:

"Mandamus is never granted in anticipation of a supposed omission of duty, however strong the presumption may be that the persons whom it is sought to coerce by writ will refuse to perform their duty when the proper time arrives. The problem cannot be solved by predicting ourselves into futurity. If there be, among his grounds for refusal, grounds tenable or reasonable—they as completely constitute a sufficient defense to the issuance of the writ as if they were the sole grounds, not intermingled with others which have no legal significance."

He ruled there cannot be a reassessment and that he cannot compel acceptance of the curbing and other street work which is not disputed.

GOV'T. TO OBSERVE LOCAL WAGE SCALES

In announcing that the total expenditure by the federal government for public works during the calendar year 1931 will be \$724,658,000, President Hoover let it be understood that the government will insist that contractors on the work shall observe the prevailing wage scales in the various sections and communities.

This is in accordance with the more restrictive policy favored by the Senate in attempting to insert an amendment in the \$116,000,000 emergency construction bill stipulating that local wage rates be paid in all work done under the terms of the measure. This amendment, however, was taken out upon the insistence of the House.

It is pointed out that the President has preserved the spirit of the amendment but has left out its restrictions.

Oakland city council has approved an appropriation for \$400 to be used by the Building Trades Council of Alameda County to help in defraying expenses of the state convention to be held in Oakland in March.

BREACH OF CONTRACT IS ALLEGED IN SUIT

The \$586,059.90 suit of H. H. Boomer, contractor, against R. C. Storrie & Company, Robert C. Storrie, Robert E. Muir and others began last Tuesday in the court of Superior Judge Franklin A. Griffin of San Francisco.

Coupled with this suit is the action brought by the defendants against Boomer in which they ask damages of \$123,322.12, alleging breach of contract.

The actions arise from a contract entered into by the Storrie Company and Boomer in 1925 for Boomer to construct a dam and hydro-electric power project at Buck's ranch, Plumas county, as a unit of the Feather River Power Company. Boomer and the Storrie Company both allege that the other broke its part of the contract.

SEATTLE COUNCIL PLANS 5-DAY WEEK

Submission at the March 10 election of a proposed charter amendment limiting the work period of all city employees to five days per week is asked of the Seattle city council by the Central Labor Council.

"Economists agree that no permanent solution of the present unemployment problem is possible without a material lessening of the hours of work and an increase of compensation for the producers of the country," the petition filed by the labor council declared.

"Private employes cannot be expected to move faster in this direction than public employes."

The petition was referred by the city council to its judiciary and finance committees.

CLE ELUM DAM PLANS UNDER WAY

Plans for the Cle Elum dam, the sixth and last of the series forming the water-storage system of the Yakima reclamation project in Washington, are being prepared by engineers of the U. S. Bureau of Reclamation. An appropriation of \$15,500,000 is available and it is hoped that construction can be started in the spring.

The dam, which will be on the Cle Elum River near Ellensburg, Wash., will be 125 ft. high and 700 ft. long. It will form a reservoir of 4,680 acres, in which will be stored 435,000 acre-feet of water.

\$21,000,000 FOR POWER DEVELOPMENTS

Continuance of the expansion program of the Puget Sound Power and Light Co., Seattle, Washington, is announced. During 1931 the company will spend nearly \$21,000,000, inclusive of construction costs, operation and maintenance, taxes, and local dividends and interest. Construction plans to be carried out include expenditures totaling \$10,310,000. Most of this amount is for power plant, transmission and distributing system costs. In 1930 these items aggregated \$12,201,000; for 1931 the total is \$9,308,000. For carrying on work at Rock Island \$8,755,000 is allotted, and for the transmission line over the Cascades from Rock Island, \$847,000, bringing the total to be expended on that hydro-electric project to \$7,602,000.

L. A. COUNTY BUILDING PERMITS

During 1930 permits for 5351 buildings and structures estimated to cost \$12,566,187 were issued in the unincorporated territory of Los Angeles county. Following are the permits classified according to use or occupancy of buildings:

Residences	1869	\$ 5,681,000
Duplexes	50	312,900
Apartments	53	2,731,100
Bungalow courts	27	210,100
Commercial	391	1,684,055
Industrial	67	821,000
Hospitals	6	133,500
Schools	5	68,500
Private garages	1345	220,500
Miscellaneous	1229	1,385,975
Totals	5351	\$12,566,187

An interesting feature in the construction of Boulder dam, or Hoover dam, as it officially designated, will be a cooling system to dissipate the heat generated by the setting of cement to reduce the temperature of the concrete and prevent serious cracks by subsequent contraction. The amount of heat to be dissipated will be approximately 700 British thermal units per cubic yard of concrete. About 800,000 ft. of 2-in. standard pipe will be required for the cooling system. This will be furnished by the government, but the contractor will install it and furnish and operate the cooling plant, which must have a capacity to reduce the temperature of a ton of 40 gallons of water per minute from 47 degrees to 40 degrees Fahrenheit.

Co-operating in a statewide campaign to restore confidence in the ranks of salaried employes, the San Francisco Chamber of Commerce is sending letters to more than nine hundred employers within the city asking them to assure their workers of the safety of their positions. The letter which is signed by President Cutler, emphasizes the depressing effect on business caused by the tendency of workers to hoard their salaries in anticipation of dismissal, and suggests that a return to normal spending might be accomplished through the elimination of this fear.

Harry A. Trueblood, munter plumber, and a member of the Modesto city council, who died suddenly several weeks ago, left an estate valued at \$128,167.69, according to the report of Harry Windus, inheritance tax appraiser. The estate consists of \$38,527.40 in personal property; \$17,540.29 in cash, and real property valued at \$52,100.

Richmond Contra Costa County, will put 160 heads of families to work in the street, park and other municipal departments to relieve the unemployment problem in that city. The men will work three days a week.

Branston Miles, 20-year old elevator operator, found dead in a San Francisco apartment house, has been identified as the nephew of Roderick Miles, architect and designer works at State Department of Public Works at Sacramento.

Building News Section

APARTMENTS

Sub-Bids Being Taken.

APARTMENTS Cost approx. \$300,000
ALAMEDA, Alameda Co., Cal. NW
 Webster and Taylor Sts.
 Seven-story class B reinforced concrete and steel apartments (60 2- and 4-room apts.)
 Owner—J. S. Berovitch, Actico Bldg., Oakland.
 Plans by Thomas Keenan, 1440 Broadway, Oakland.
 Contractor—G. P. W. Jensen, 320 Market St., San Francisco.

Contract Awarded.

ALTERATIONS Cost, \$—
SAN FRANCISCO. No. 499 Buena Vista Avenue.

Alter residence for apartments
 Owner—Mrs. J. A. Wilcox, Premises.
 Architect—Henry H. Guttererson, 526 Powell St., San Francisco.
 Contractor—Clinton-Stephenson Construction Co., Monadnock Bldg., San Francisco

Sub-bids will be taken in about one week.

Plans Being Prepared.

APARTMENTS Cost, \$—
SAN FRANCISCO. Clay Street.
 Three-story and basement frame and stucco apts. (nine 3-room apts.)
 Owner—Withheld.
 Architect—Masten & Hurd, 210 Post Street.

Owner Taking Sub-Bids.

APARTMENTS Cost, \$25,000
BURLINGAME, San Mateo Co., Cal.
 Two-story and basement frame and stucco apartments (17 2 and 3-room apts.) (tile garage 36x64 ft.)
 Owner—E. Cobo, 378 N. Delaware St., San Mateo.

Plans by Grimes & Schoening, Balovich Bldg., San Mateo.

Sub-bids are desired on all portions of the work excepting carpentry and painting.

Sub-Contracts Awarded.

REMODELING Cost, \$6000
OAKLAND, Alameda Co., Cal.
 Remodel 2-story and basement frame and stucco store and apartments.
 Owner—A. Tulanian, 2998 College Ave. Berkeley.

Plans by Mr. Yerrick.

Contractor—A. J. Yerrick, 5263 College Ave., Oakland.
 Plumbing—J. R. Pierce Co., 7109 East 14th St., Oakland.

Concrete and Excavation—Frank Salami, 5350 Manila, Oakland.

Sewer Work—Frank Gonsalves, 1671 Ninth St., Oakland.

Lumber—Loop Lumber Co., Broadway and Blanding, Alameda.

Architect Taking Heating Bids.

APARTMENTS Cont. price, \$11,500
SAN FRANCISCO. SE Army and Alabama Streets.

Two-story and basement frame and stucco apartments (4 apts.)

Architect—G. A. Berger, 309 Valencia.

Contractor—J. L. Cuneo and P. D. Martini, care architect.

Oil burning heating system is to be installed.

Completing Plans.

APARTMENTS Cost, \$125,000
LOS ANGELES, Cal. Miller Drive near Sunset.

Two-story and basement reinforced

concrete and brick apartments (4, 5 and 6 room apts.)

Owner—F. J. Schwarz.
 Architect—J. A. Schwarz, Black Bldg., Los Angeles.

Sub-Contracts Awarded.

APARTMENTS Cost, \$45,000
SAN FRANCISCO. NW Thirtieth Ave. and Fulton St.

Three-story and basement frame and stucco apartments (15 apts.)

Owner and Builder—A. T. Morris & Sons, 3560 Fulton St., San Francisco.

Plans by Owner.

Brick Work—Sed Hoffman.
Concrete—Standard Concrete Co., 3025 Geary St., San Francisco.

Steel—Schradler Iron Works, 1247 Harrison St., San Francisco.

Hardware—T. G. Worman

Hardwood Flooring—Western Hardwood Floor Co., 21 Capistrano St., San Francisco.

Sub-bids are wanted on plumbing, electric wiring, heating, plastering, tile work, lighting fixtures, and roofing.

Plans Being Prepared—Contract Awarded.

APARTMENTS Cost, \$1,500,000
SAN FRANCISCO. W Gough St. bet. Washington and Sacramento Sts.

Class A 16-story steel frame and concrete apartments.

Owner—Coast Bay Co., % contractors.

Architect—Geo. Kelham, Sharon Bldg.

Structural Engineer—H. J. Brunner, Sharon Bldg.

Mechanical Engineer—Hunter & Hudson, 41 Sutter St.

Contractor—Lindgren and Swinerton, Inc., 225 Bush St.

Sub-Bids Being Taken.

APARTMENTS Cost, \$50,000
SAN FRANCISCO. 25th Avenue near Fulton Street.

Three-story and basement frame and stucco apartments (12 2- and 3-room apts.)

Owner and Builder—Fred. Anderson, 1320 22nd Avenue.

Architect—Irvine & Ebbets, Call Bldg.

Sub-Contracts Awarded.

APARTMENTS Cost, \$125,000
SAN FRANCISCO. NE Fair Oaks and 25th Sts.

SKILSAW Portable Electric Hand Saws (4 models).

SKILSAW Portable Electric Sander

SKILSAW Radial A r m Attachments.

SYNTRON Portable Electric Hammers (4 models, motorless).

MALL Flexible Shaft Machines (50 models).

Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric Tools.

1248 Mission St. UNderhill
 San Francisco 7862
 SALES . SERVICE . RENTALS

Six-story and basement class C steel frame and concrete apartments (36 3-room apts.)

Owner—V. Guilmes, 1203 Guerrero St. Plans by Owner.

Engineer—J. M. Smith, 251 Kearny St.

Steel—Golden Gate Iron Works, 1541 Howard St.

Plumbing—E. Sugarman, 3624 Geary Street.

Concrete—Frank Vannucci, 55 Oakwood Street.

Electric Work—W. J. B. Baker, 270 6th Street.

Lumber—Roland Lbr. Co., 201 Berry Street.

Mill Work—Eureka Mill & Lbr. Co.

Reinforcing Steel—W. C. Hauck & Co., 280 San Bruno Ave.

Additional Sub-Contracts Awarded.

APARTMENTS Cost, \$125,000
SAN FRANCISCO. S Broadway 187 E Webster Street.

Seven-story and basement class A apartments (7 apts.)

Owner—Wm. Helbing, Sr., 1310 Lombard Street.

Architect—H. S. Helbing, 1310 Lombard Street.

Contractor—The Helbing Co., 1310 Lombard Street.

Concrete—Transit Concrete Co., Call Bldg. (Acme Concrete Co., 666 Mission St., is pouring the concrete).

Steel Joists—Truscon Steel Co., Call Bldg.

Cases and Mill Work—Builders' Supply Depot, 390 9th St.

As previously reported, structural steel awarded to Judson Pacific Co., 609 Mission St.; electrical work to Actus Elec. Co., 1247 Webster St.; lumber to Loop Lumber Co., Central Basin.

Contract Awarded. Cost, \$50,000
OAKLAND, Alameda Co., Cal. East

Erle St. North Mandana Blvd.

Three-story and basement frame and stucco apartments (48 rooms).

Owner—Louise B. Erain, 2600 Lakeshore Ave., Oakland.

Architect—Clay N. Burrell, American Bank Bldg., Oakland.

Contractor—R. G. Roberts, 2001 Fulton St., Berkeley.

Sub-Contracts Awarded.

APARTMENTS Cost, \$150,000
OAKLAND, Alameda Co., Cal. Crescent Avenue near Santa Clara.

Three-story frame and stucco apartments with class C concrete garage.

Owner and Builder—R. E. Mayer, 1129 McKinley St., Oakland.

Architect—Douglas Stone, 61 West-cent Power Bldg., Oakland.

Heating—Frank J. Edwards, 354 Hobart St., Oakland.

Elevators—Spencer Elevator Co., 166 7th St., San Francisco.

Plumbing—J. M. Dale, 372 24th St., Oakland.

Excavation—Arlis-Knapp Co., 961 41st St., Oakland.

Reinforcing Steel—McCrath Steel Co., 34 Hobart St., Oakland.

Concrete—Pacific Coast Aggregates, Inc., 82 2nd St., San Francisco.

Concrete in Place—George McMullin, 747 Victoria, Oakland.

Steel Pans—Concrete Eng. Co., 1280 Indiana St., San Francisco.

Lumber—E. K. Wood Lumber Co., Frederick and King Sts., Oakland.

BONDS

ALBANY, Alameda Co., Cal.—Election will be held February 14 in Albany School District to vote bonds of \$130,000 to finance erection of a ten-classroom addition to the Marin Ave. School and a six-classroom addition to the Cornell School, in addition to grading land, landscaping and additions; also a new heating plant for the Cornell School.

SALINAS, Monterey Co., Cal.—Election will be held February 3, in Salinas City School District to vote bonds of \$154,000 to finance erection of three new units to present school plant. Arthur Walter is City Superintendent of Schools.

CLEAR LAKE, Lake Co., Cal.—Stubs School District votes bonds of \$3000 to finance erection of a new school to house 40 pupils.

PITTSBURG, Contra Costa Co., Cal.—Petitions are being circulated seeking to have city council call an election to vote bonds to finance construction of a municipal hospital. The proposal has the support of the City Planning Commission and local business interests.

LAS VEGAS, Nev.—Dr. F. M. Ferguson, county health officer, has recommended to the Clark County Commissioners the erection of a modern county hospital. It is expected that the commissioners will present a bill to the state legislature seeking authorization for a bond issue to secure funds to finance the project.

SAUSALITO, Marin Co., Cal.—The Sausalito School District votes bonds of \$24,000 to finance beautification and general improvement of school playgrounds.

YUBA CITY, Sutter Co., Cal.—Trustees of Yuba City Grammar School District will call election shortly to vote bonds of \$36,000 to finance erection of a new main building and a wing extension in Plumas street school to comprise 10 classrooms, auditorium, cafeteria, and manual training department.

CHURCHES

Plans Being Completed.
MONASTERY Cost, \$200,000
SAN DIEGO, Cal. No. 5153 Hawley Avenue.

Two and three-story reinforced concrete monastery (160x200 feet).
Owner—Carmelite Sisters.
Architect—Frank L. Hope Jr., Bank of Italy Bldg., San Diego.

Preliminary estimates are now being taken by the architect and general bids will be taken the end of January.

PORTERVILLE, Tulare Co., Cal.—C. E. Van de Mark, Porterville, at approximately \$2000 has contract to remodel First Methodist Church. A new pipe organ and pews will also be installed. Approximately \$25,000 will be expended in the improvements.

To Be Done By Day's Work By Owner.
CHURCH Cost, \$12,000
TAFT, Kern Co., Cal.
One-story frame and stucco church (70x50 ft.) auditorium to seat 250.
Owner—First Christian Church of Taft
Architect—Robert H. Orr, Corporation Bldg., Los Angeles.

H. J. Kirschlein is chairman of the building committee.
Composition shingle roof, steel sash, gas steam radiators, wood trusses, etc.

Sketches Being Prepared.
CHURCH Cost, \$22,000
HAYWARD, Alameda Co., Cal. Football Blvd. and A Street.
One-story and basement brick and cast stone church.

Owner—First Congregational Church, Premises.
Architect—E. P. Whitman, 192 Main St., Hayward.
Present church on site will probably be wrecked. Financing arrangements are now being made.

SANTA BARBARA, Cal.—First Congregational Church has referred to its Board of Trustees the matter of selecting a site for a new edifice to replace the building destroyed by fire two years ago.

Contracts Awarded.
CHURCH Cost, \$70,000
OAKLAND, Alameda Co., Cal. Emerson and Excelsior Avenues.
Reinforced concrete church.

Owner—Roman Catholic Archbishop of San Francisco, 1160 Franklin St., San Francisco.
Architect—W. E. Schirmer, 700 21st St., Oakland.

General Work
Thomas Furlong, 460 Jerome Ave., Oakland, \$43,000.
Lathing and Plastering
Wm. Makin, 1048 Excelsior Ave., Oakland, \$11,900.

Roofing
General Roofing Co., 2955 Beach St., Oakland, \$3,258.

FACTORIES AND WARE-HOUSES

Plans To Be Prepared.
TERMINAL Cos., \$—
TRACY, San Joaquin Co., Cal. Adam and 11th Streets.
Stage terminal and super service station.

Owner—Pacific Geryhound Lines, 9 Main St., San Francisco.
Architect—Not Selected.
Proposed project is in a preliminary stage.

January 14, 1930
Plans Being Prepared.
POULTRY BLDG. Cost, \$75,000
SACRAMENTO, Sacramento Co., Cal. State Fair Grounds.
One-story brick poultry building.
Owner—State of California.
Architect—Geo. McDougall, State Architect, Public Works Bldg., Sacramento.

Plans Being Prepared.
LIVESTOCK BLDG. Cost, \$125,000
SACRAMENTO, Sacramento Co., Cal. State Fair Grounds.
One-story brick livestock building.
Owner—State of California.
Architect—Geo. McDougall, State Architect, Public Works Bldg., Sacramento.

Contract Awarded.
LAUNDRY & APTS. Cost, \$15,000
FACTORY
Two-story reinforced concrete laundry and apartments (2 apts.).
Owner—C. C. Pontacq, 27 Central Ave., Salinas.
Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
Contractor—Fred. McCrary, 506 Fremont St., Monterey.
Construction has just been started.

Prospective Bidders.
FACTORY Cost, \$70,000
OAKLAND, Alameda Co., Cal. Eighty-first Avenue near 14th St.
One-story reinforced concrete factory.
Owner—Blue Bird Potato Chips, Inc., 48th Ave. and Beck Sts., Oakland.
Architect—Charles W. McCall, 14 0 4 Franklin St., Oakland.

Following contractors will submit bids:

Harrett & Hilp, 918 Harrison St., San Francisco.
A. Cedarborg, 1455 Excelsior Ave., Oakland.
G. P. W. Jensen, 320 Market Street, San Francisco.
H. Lawrence, 5321 Hill Rd., Oakland.
Clinton Stephenson Const. Co., Monadnock Bldg., San Francisco.
R. W. Littlefield, 337 17th St., Oakland.
Wm. Spivock, Hobart Bldg., San Francisco.
H. L. Page, 5651 Oak Grove, Oakland.
A. A. Haskell, 4437 23rd Ave., San Francisco.
Austin Co. of California, 1924 Broadway, Oakland.
Jacobs & Pattiani, 337 17th Street, Oakland.
Garbert Bros., 4735 Brooksdale, Oakland.
Chas. D. Vezey & Sons, 3220 Sacramento St., Oakland.
Chas. Heyer, Mills Bldg., San Francisco.
Bids are to be opened Jan. 20.

PITTSBURG, Contra Costa Co., Cal.—Columbia Steel Corp. has purchased 20.8 acres of land as an addition to the present Pittsburg holdings and will construct additional plant units as production warrants.

Owner Taking Bids.
PACKING HOUSE Cost, \$10,000
GILROY, Santa Clara Co., Calif.
One-story wood packing house (55x 200-ft.; gravel roof).
Owner—Aiello Bros., North San Pedro San Jose.
Architect—Charles McKenzie, 7wohy Bldg., San Jose.

Sub-Contracts Awarded.
HANGAR, ETC. Cost, \$75,000
ALAMEDA, Alameda Co., Cal. Webster Street.

All steel hangar and administration building (160x130-ft.)
Owner—San Francisco Bay Aldrome (R. U. St. John, field manager).
Contractor—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.
Structural Steel—Western, Iron Wks., 141 Beale St., San Francisco.
Piling—Healy-Tibbitts Const. Co., 64 Pine St., San Francisco.

Hangar Doors, Steel Sash and Glazing—Erickson Iron Works, 18th and Campbell Sts., Oakland.
Reinforcing Steel—W. C. Hauck Co., 280 San Bruno Ave., San Francisco.

The structure will be 160 by 130 ft. and will house shops and offices, in addition to providing plane storage space for 70 small planes or 15 trimotored transports.

Contract Awarded.
HANGAR Cont. price, \$32,746
SACRAMENTO, Sacramento Co., Cal. Freeport Blvd. at Municipal Airport.

Steel frame and wood hangar and air terminal station, 80x100 feet.
Owner—City of Sacramento (to be leased to Boeing Air Transport Company).
Architect—Harry Devine, 1405 Fortyeighth St., Sacramento.
Contractor—Lindgren and Swinerton, Inc., California State Life Bldg., Sacramento.

Structure will be of steel frame and wood construction covering an area of 80 by 100 feet, with an exterior covering of corrugated iron.

VALLEJO, Solano Co., Cal.—Basalt Rock Co., Napa, has purchased a site in South Vallejo on the Will Smith holdings on the tidelands between the Southern Pacific holdings and the waterfront, and plans to establish a plant to serve as an all-rail-and-water outlet to and from its plant at Napa.

Segregated Bids Being Taken.
FACTORY Cost, \$—
SAN LEANDRO, Alameda Co., Cal.
 Foothill Blvd. and 163rd Ave.
 One-story brick and steel factory (60x
 108 feet).
 Owner—Wurm Wooven Heisery Mills,
 J. W. Tilley, Mgr., 414 13th St.,
 Oakland.

Plans by Owner.
 Segregated bids on all portions of
 the work are being taken by J. W.
 Tilley.

Contract previously reported as being
 awarded to Drew Cammetti, 2212
 21st Ave., Oakland.

Bids Being Taken.
RECONSTRUCTION Cost, \$—
TRACY, San Joaquin Co., Cal.
 Reconstruct present warehouse (brick
 walls, steel and wood roof).
 Owner—Holly Sugar Co., West Chan-
 nel, Stockton.
 Plans by Eng. Dept. of Owner.

GARAGES AND SERVICE STATIONS

Preparing Working Drawings.
AUTO AGENCY Cost, \$40,000
SACRAMENTO, Sacramento Co., Cal.
 NE 22nd and Y Sts. (120x150-ft.)
 One-story brick P o r d automobile
 agency.

Owner—Eilsworth Harold, 712 12th
 St., Sacramento.
 Architect—Chas. F. Dean, California
 State Life Bldg., Sacramento.

Wood Roof Truss Contract Awarded.
GARAGE Cost, \$15,000
SAN FRANCISCO, Third Street, bet.
 22nd and 23rd Sts.

One-story and basement reinforced
 concrete garage and service sta-
 tion (150x50 feet).

Owner—Samuel Ran, 238 5th St., San
 Francisco
 Plans by D. K. Dobkowitz, 425 Mont-
 eger Blvd., San Francisco.
 Engineer—W. Adrian, 417 Market St.,
 San Francisco.

Wood Roof Trusses—Summerbell
 Truss Co., 354 Hobart St., Oakland
 Contract awarded for furnishing and
 erecting nine Summerbell wood roof
 trusses.
 Owner is taking bids on other por-
 tions of the work

GOVERNMENT WORK AND SUPPLIES

SAN FRANCISCO—Until January 25,
 11 A. M., under Specification No. 6356,
 bids will be received by Public Works
 Officer, Twelfth Naval District, 100
 Harrison St., for extension of glazed
 partitions in the Communication Of-
 fice on fifth floor at 100 Harrison St.
 Deposit of \$10 required for plans ob-
 tainable from above office.

HAWTHORNE, Nevada—Until Janu-
 ary 27, 10 A. M., bids will be re-
 ceived by the Bureau of Supplies and
 Accounts, Navy Department, Wash-
 ington, D. C., to furnish one motor
 ambulance for Naval Ammunition De-
 pot at Hawthorne, Nev. Specifications
 obtainable from above office or
 from Navy Purchasing Office, 100 Har-
 rison St., San Francisco.

COCO SOLO, C. Z.—Following bids
 taken under advisement by Bureau
 of Yards and Docks, Navy Depart-
 ment, under Specification No. 6357, for
 cranes for Coco Solo:
 Harnischfeger Sales Corp., 440 W.
 National Ave., Milwaukee, \$5,175.
 Box Crane, Hoist Corp., E. On-
 tario St. and Arenton Ave., Philadel-
 phia, \$6,961.

A. D. Granger Co., Inc., 15 Park
 Row, New York City, \$7,743.

COCO SOLO, C. Z.—Following bids
 taken under advisement by Bureau of
 Yards and Docks, Navy Department,
 for elevator at Coco Solo, under Spec.
 No. 6356:
 Otis Elevator Co., Washington, \$2,-
 970

Moffatt Machinery Mfg. Co., Char-
 lotte, N. C., \$3,179.

Salem Foundry & Machine Works,
 Inc., Salem, Va., \$3,245.

Warner Elevator Mfg. Co., Cincin-
 nati, \$3,590.

Kimball Bros. Co., Council Bluffs,
 Iowa, \$4,300.

Contracts Awarded.
CHAPEL, \$40,000 appropriated
SAN FRANCISCO, Presidio Reserva-
 tion.

Two-story reinforced concrete chapel.
 (70x47-feet, seating 200; Mission
 style; Sunday school in basement)
 Owner—United States Government.
 Architect—Constructing Quartermas-
 ter, Fort Mason.
 Tile roof, cast artificial stone and
 terra cotta front, artificial tile floors,
 hot air fan system, oil burners, oil
 tanks, motor and outlet for organ, 3
 lavatories, acoustic plaster interior,
 Spanish Mission texture. Organ not
 included in general contract.

General Work
 John Ejorkman, San Francisco, \$21,918

Heating
 Montague Range & Furnace Co., \$1476

Electric
 Johnson Electric Co., 758 Mont-
 rey Blvd., \$750

Plumbing
 Albert Nelson, 242 Ocean Ave., \$885
 Complete list of bids published Dec.
 30, 1930.

PEARL HARBOR, T. H.—A. Neko-
 moto, 1805 S. King St., Honolulu, was
 awarded contract at \$14,293 by the
 Bureau of Yards and Docks, Navy
 Department, for installing refrigerat-
 ing plant at Naval Operating Base,
 Pearl Harbor. Spec. No. 6065.

TUCSON, Ariz.—Dr. Paul D. Moss-
 man, medical director, U. S. Bureau
 of Indian affairs, will select a site at
 once for the proposed \$125,000 Papago
 Indian sanatorium to be erected this
 spring near Six Xavier mission. Plans
 have not yet been drawn for the
 structure but as soon as the site is
 selected they will be started. J. W.
 Elliott is director of the Papago Indian
 reservation with offices at Sells, Ariz.

MARE ISLAND, Cal.—Chief of the
 Bureau of Yards and Docks, Navy De-
 partment has approved a \$350,000 ex-
 penditure for construction at Mare
 Island, in addition to the \$100,000 al-
 ready granted for improvements at the
 sawmill, foundry, sheet metal shop
 and machine shop. Following are
 the items in the \$350,000 expenditure:
 Building 51—Sail and Flag Loft. In-
 stall fire escapes from second floor at
 each end of building, \$2600.

Building 334—Paint Shop. Provide
 adequate fire protection, \$18,400.

Buildings 35, 38, 40, 42, 44, 46, 48—
 Pipe and Copper Shop. Replace roofs,
 fit out to house pipe shop, \$170,000.

Building 271—Machine Shop (inside)
 Install drainage, render elevator au-
 tomatic, \$5100.

Roof of Building 273—Optical Shop.
 Extend optical shop and install crane
 on roof, \$19,500.

Building 115—Gas Cylinder Shop.
 Fit out acetylene cylinder recondition-
 ing plant, \$5000.

Building 55—Pattern Shop. Install
 elevator and improve floor, \$7000.
 Building 85—Machine Shop (inside).
 Fit out section to receive steam test
 plant, \$10,000.

Building 52—Machine Shop (Out-
 side). Install railroad track into west
 end of building, \$3000.

Building 105—Electric Shop. Fit out
 building for additional space for elec-
 tric shop, \$400.

Buildings 336 and 128—Foundry. Im-
 prove Building 128 and fit out Build-
 ing 336, \$3000.

Building 55—Shipbuilding Lobby.
 Renew roof and repair floors, \$6000.
 Supply Department. Install Chain
 Storage Platforms, \$22,000.

Building 101—Electric Shop. Renew
 lower floor, \$2000.

Building 11—Present Sheet Metal
 Shop. Renew roof, \$3000.

Building 114—Saw Mill. Remodel
 toilet, \$2000.

Buildings 87, 89 and 91—Machine
 Shop (Outside). Renew roofs of Build-
 ings 89 and 91 and repair roof of
 Building 87, \$20,000.

Building 108—Shipwright Shop. Pro-
 vide oakum storage and renew lower
 floor, \$5000.

Building 147—Dry Kiln. Renew dry
 kiln, \$25,000.

Building 71—Supply Department
 Storehouse. Fill basement and install
 concrete floor, \$18,000; total, \$350,000.

SAN FRANCISCO—Severin Electric
 Co., 172 Clara St., at \$6500 awarded
 contract by Constructing Quartermas-
 ter, Fort Mason, for alterations to
 electric feeder system at Letterman
 General Hospital.

Bids Opened.
POSTOFFICE Cost, \$—
SANTA ANA, Orange Co., Cal.
 Class A postoffice.

Owner—U. S. Government.
 Plans by Supervising Architect, Treas-
 ury Dept., Washington, D. C.
 Following are three low bidders:
 R. J. Chute Co., 2506 W Santa
 Barbara St., Los Angeles, \$148,719

L. A. Contracting Co., L. A., 149,000
 Sarver & Zoss, Los Angeles, 152,450
 A complete list of bids will be pub-
 lished shortly.

SAN FRANCISCO—Following bids
 taken under advisement by Construct-
 ing Quartermaster, Fort Mason, to
 furnish f.o.b. Dock 3, Fort Mason:

(a) 2500 firebrick, best quality, equal
 to Wemco or Gasco.

(b) 1400 lbs. Hi-temperature cement,
 equal to "Latite."

W. S. Dickey Clay Mfg. Co. (a) 6c
 each; (b) 7c lb. alternate, \$55 ton

W. E. Musher Co. (a) \$4.95; (b) 6c
 Stockton Firebrick Co. (a) \$4.06; (b)
 3c lb.

Gladding, McBean & Co. (a) \$70.25
 per M.; (b) \$69.75 lb.

Taken under advisement.

SAN FRANCISCO—Until January
 26, 10 A. M., bids will be received by
 Quartermaster Supply Officer, General
 Depot, Fort Mason, under Schedule
 No. 928-31-176, to furnish and deliver
 843 gas range parts, concealed mani-
 fold, for Special Fire King No. 16-18,
 as manufactured by A. Weiskittel &
 Son Co., Baltimore, Md. Specifications
 obtainable from above.

CORVALLIS, Ore.—Hallhauer-La-
 Bahn, Inc., 844 Rush St., Chicago, Ill.,
 at \$104,000, time for completion 480
 days, awarded contract by Supervis-
 ing Architect, Treasury Department,
 to erect postoffice at Corvallis, Ore.

Plans Being Figured—Bids Close Jan.
 27th.
EXTENSION \$1,115,000 available
SALT LAKE CITY, Utah.

Class A postoffice and courthouse ex-
 tension and remodeling.

Owner—U. S. Government.
 Architect—Supervising Architect,
 Treasury Dept., Washington, D. C.
 Deposit of \$25 required for plans, ob-
 tainable from above office.

SAN DIEGO, Cal.—Anton Johnson Co., 517 El Centro St., South Pasadena, submitted low bid of \$98,647 to the Public Works Department of the Eleventh Naval District at San Diego, for construction of reinforced concrete, steel and heavy timber physical instruction, gymnasium and welfare building at the Naval Operating Base (Air Station), San Diego. Specification No. 6275. The public works officer has recommended that contract be awarded to Johnson Company on item No. 1. Will be heavy-shaped, front portion two stories, 207x82 feet in area, and the rear portion one-story, 131x78 feet in area.

SACRAMENTO, Cal.—Until Jan. 5 3 P. M., under Order No. 2397-1749, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano county, 1200 condenser tubes, 5/8-in. dia. by 16-ft. 13/4-in. long. The tubes shall be made of admiralty metal (U. S. Navy Spec. No. 46315a) and shall be No. 16 stubs gauge, seamless condenser tubes each 5/8-in. dia. x 10 ft. 13/4-in. long, cut exactly to length. Delivery is desired within 20 calendar days after notification of award and no bid contemplating delivery in excess of 35 calendar days will be accepted. Delivery is a matter of importance and will be considered in making the award.

SAN FRANCISCO.—Until Jan. 26, 2 P. M., bids will be received by U. S. Forest Service, Ferry Bldg., to furnish and deliver 2,175 metal porcelain enamel road and trail direction and miscellaneous signs. Specifications obtainable from above on request.

SAN FRANCISCO.—Until Jan. 21, 10 A. M., under Schedule No. 928-31-178, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 7,000 ft. Douglas fir or O. P. No. 2 common, lumber, in lengths of 10-ft. or over but not exceeding 20-ft., as follows:
1,000 ft. 1x6-in., SIS.
1,000 ft. 1x10-in., SIS.
3,000 ft. 1x12-in., SIS.
1,000 ft. 2x4-in., SIS.
1,000 ft. 1 1/2 x 12-in., S2S, resawed to 1/2-in.

SAN FRANCISCO.—Until January 22, 10:00 A. M., under Schedule No. 928-31-179, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver main engine parts for G. E. Co's. 6,000 H P. turbines. Specifications obtainable from above.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Officer, 100 Harrison St., San Francisco:
Bids Open Jan. 27

Western yards, 7 motor-driven sensitive bench drills; sch. 4891.

Western yards, 9 motor-driven bench type coil winding machines; sch. 4892.

San Francisco, 1 motor-driven buffer and polishing lathe, and 1 motor-driven ball bearing bench buffer; sch. 4864.

Western yards, 9 electric baking ovens and spares; sch. 4893.

Western yards, 7 motor-driven combined bench grinders and buffers; sch. 4890.

San Francisco, 1 motor generator set and spares; sch. 4912.

Mare Island, 1 motor-driven drill grinder; sch. 4908.

Mare Island, 5700 steel boiler tubes; sch. 4904.

F. O. B. works, 230 tons coke; sch. 4903.

Mare Island, 300 sheets non-shatterable glass; sch. 4901.

Western yards, radio transmitters and spares; sch. 4894.

Western yards, resistors and condensers; sch. 4899.

PEARL HARBOR, I. T.—Following is a partial list of prospective bidders for Scapline Hangar to be erected at Pearl Harbor, T. H., bids for which will be opened February 18 by Bureau of Yards and Docks, Navy Dept., under Spec. No. 6215:
Detroit Steel Prod. Co., 712 Barr Bldg., Washington.
H. H. Robertson Co., 2000 Grant Bldg., Pittsburgh.
Soule Steel Co., 4909 Everett Ave., Los Angeles, Calif.
Marion Machine Foundry & Supply Co., Marion, Ind.
Anchor Corrugating Co., 130 W 42nd St., New York City.

MARE ISLAND, Cal.—Following is a partial list of prospective bidders to erect Barracks Bldg., etc., at Mare Island Navy Yard, bids for which will be opened January 23 by the Bureau of Yards and Docks, Navy Department, under Spec. No. 6330:
James Shaw, Richmond (representative of Western Foundation Co., Chicago).
Sullivan & Sullivan, 2653 Best Ave., Oakland.
Fred. Hayden, San Jose.
Frank Lamb, Vallejo.
Leroy Bldg. Service, 165 Jessie St., San Francisco.
Mahony Bros., Follod Bldg., San Francisco.
Associated Hardware Co., 3860 San Pablo Ave., Oakland.
E. Rosemont, 176 Duboce Ave., San Francisco.
James L. McLaughlin, 251 Kearny St., San Francisco.
Healy-Fibbits Const. Co., 64 Pine St., San Francisco.
Jacks and Irvine, Call Bldg., San Francisco.
Johns-Manville Co., 159 New Montgomery St., San Francisco.
Herman Lawson, 465 Tehama St., San Francisco.
Minneapolis Steel & Machinery Co., Sharon Bldg., San Francisco.
Wm. Spivock, Hobart Bldg., San Francisco.
MacArthur Concrete Pipe Corp., 58 Sutter St., San Francisco.
National Surety Co., 160 Sansome St., San Francisco.
Young & Horstmeyer, 461 Market St., San Francisco.

Crockett Electric Co., Crockett.
Raymond Concrete Pipe Co., Hunt-er-Dulin Bldg., San Francisco.
F. H. Cross, 828 Excelsior, Oakland.
Fred. J. Maurer, Eureka.
Mangrum-Holbrook Co., 1235 Mission St., San Francisco.
Mona Plumbing Shop, Crockett.
K. E. Parker, 135 South Park, San Francisco.
Robt. E. McKee, Central Bldg., Los Angeles.
Jacobs & Pattiani, 337 117th Street, Oakland.
G. F. Campbell, San Diego.
MacDonald & Kahn, Financial Center Bldg., San Francisco.
Carl S. Koller, Crockett.
A. G. Atwood, 3623 18th St., San Francisco.
Soule Steel Co., Rialto Bldg., San Francisco.
Eaker Ice Machine Co., 2459 E 14th St., Oakland.
J. H. Kruse, 23rd and Showtel Sts., San Francisco.
Wm. MacDonald Const. Co., Syndicate Bldg., St. Louis.
Keweenaw Boiler Crop, Keweenaw, Ill.
Crescent Steel Co., 12 E Loughborough Ave., St. Louis.
Hallbauer & La Bahn, Inc., 844 Rush St., Chicago.
George Griffiths Const. Co., Arcade Bldg., St. Louis.
W. P. Winston Co., Inc., Box 2089 Richmond, Va.

HALLS AND SOCIETY BUILDINGS

Contract Awarded.
LODGE BLDG Cost, \$90,000
LAS VEGAS, Nevada. Third and Fremont Streets.
Two-story Class C brick store and lodge building (100x130 feet).
Owner—Las Vegas Masonic Lodge.
Architect—Gilbert Stanley Underwood
730 S. Los Angeles St., Los Angeles.
Contractor—Los Angeles Contracting Co., 4816 W. Pico Blvd., Los Angeles.

Plans Being Completed.
BUILDING Cost, \$—
RICHMOND, Contra Costa Co., Cal.
11th Street off Macdonald Ave.
Two-story and basement class C brick building.
Owner—The Salvation Army.
Architect—Douglas Stone, 357 17th St., Oakland.
Plans will be ready for bids in one week.

ORNAMENTAL WIRE AND IRON WORK

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MEMORIAL BLDG. Cost, \$—
HAYWARD, Alameda Co., Cal. Main Street.
 Two-story reinforced concrete veterans' memorial building.
Owner—County of Alameda.
Architect—Henry H. Meyers, K o h l Bldg., San Francisco.
 Plans will be ready for bids in three or four weeks.

OAKLAND, Cal.—Following awards of contract made by county supervisors in connection with furniture and equipment for the Veterans' Memorial Building at Emeryville:
Anderson Carpet House, Items 3 to 9 inc., velvet hangings, \$909.90.
Jackson Furniture Co., item 10, rug \$33; items 17 and 18, chairs, \$212.
C. L. Robinson Co., items 11 and 12, rugs, \$324.50 and item 13, canvas floor covering, \$199.
C. F. Weber Co., item 14, folding chairs, \$2,673.50 and item 34 1/2, opera chairs, \$224.50.
Remington Rand Service Co., item 27, banquet table, \$317.50; items 36 and 37, lodge room chairs, \$314; item 38, pulpit, \$25; item 37, pedestal, \$78; item 40, altar, \$43.75; item 41, desk, \$154; item 42, chairs, \$69.
John Brenner Co., item 15, davenport, \$309.90; item 16, upholstered chairs, \$274.50.

HOSPITALS

Plans Being Figured—Bids Close Feb. 3, 2 P. M.
WARD 10 Cost, \$—
TALMAGE, Mendocino Co., Cal. State Hospital Grounds.
 Ward No. 7, consisting of six one-story dormitories and connecting arcade; reinforced concrete construction (total floor area 16,000 sq. ft. with arcade space of 4,600 sq. ft.)
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, state architect, Public Works Building, Sacramento.
 Will have tile & wood partitions, and roof construction, tile roof similar to existing buildings. Separate bids are wanted for
 1. General Work.
 2. Electrical Work.
 3. Plumbing, Heating and Ventilation Work.
 4. Complete Mechanical, including Plumbing, Heating, Ventilating and Electrical Work.

The "General Work" bid will embrace all branches of work other than segregated above.
See call for bids under official proposal section in this issue.

ARLINGTON, Riverside Co., Cal.—State Department of Public Works, Division of Architecture, has canceled the call for bids to erect the two-story reinforced concrete ward building at Arlington, the site for the new state hospital. It is probable that a new call for bids will be issued at a later date.

AGNEW, Santa Clara Co., Calif.—Spencer Elevator Co., 166 7th St., San Francisco, at \$326 submitted lowest bid to State Department of Architecture, Public Works Bldg., Sacramento, for reconstruction of two elevators in the Agnew State Hospital.
 Following is a complete list of bids:
 Spencer Elevator Co., S. F. \$3,325
 Pacific Elevator & Equip. Co., 4,422 Otis Elevator Co., 5,693
 Bids held under advisement.

SAN FRANCISCO.—Until January 21, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to fabricate, deliver and erect structural steel for roof ward

additions to the San Francisco Hospital. Estimated cost \$28,000. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Architecture, 2nd floor, City Hall, on deposit of \$25, returnable.

Preparing Working Drawings.
PREVENTORIUM Cost, \$100,000
REDWOOD CITY, San Mateo Co., Cal. Three frame and stucco Preventorium buildings with tile roofs.
Owner—City and County of San Francisco.
Architect—Henry H. Meyers, K o h l Bldg., San Francisco.

Contracts Awarded.
KITCHEN, ETC. Cost, \$—
BERKELEY, Alameda Co., Cal.
 One-story reinforced concrete kitchen and commissary building and two-story reinforced concrete boys' and girls' dormitory.
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, George B. McDougall, State Architect, Public Works Building, Sacramento.

Kitchen and dormitory building will have tile partitions, steel and wood roof construction and tile roof; total floor area 14,000 sq. ft.
 Boys' and girls' dormitory will have tile partitions, wood roof construction and tile roof; total floor area 42,700 sq. ft.
 Following is a complete list of bids:
 Alt. No. 1, add for addition of bakery.
 Alt. No. 2, add for addition for arcade.
 Alt. No. 3, deduct for omission of elevator.

General Work
Monson Bros., 475 6th St., San Francisco, \$172,740.
Plumbing, Heating and Ventilating
George A. Schuster, 3712 Grove St., Oakland, \$35,797.
Electrical Work
George Woolf, 795 Alcatraz Ave., Oakland, \$8190.
 Alternates 1 and 2 accepted, alternates 3 rejected.

SAN FRANCISCO.—Until January 26, 3 P. M., under Proposal No. 678, bids will be received by Leonard S. Leary, city purchasing agent, 270 City Hall, to furnish and deliver X-Ray films for San Francisco Hospital. Specifications obtainable from above.

Preparing Working Drawings.
ADDITION Cost, \$50,000
VENTURA, Ventura Co., Cal. Foot-hill Blvd.
 Two-story Class A addition to hospital (66x34 feet).
Owner—County of Ventura.
Architect—Harold E. Burket, 455 E. Main St., Ventura.

Sub-Contracts Awarded.
HOSPITAL. Cont. price, \$69,223
STOCKTON, San Joaquin Co., Calif. State Hospital Grounds.
 Two-story and part basement reinforced concrete hospital and two-story reinforced concrete industrial building.

Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, George B. McDougall, State Architect, Public Works Building, Sacramento.
Contractor—Sorenson and Haggmark, 2652 Harrison St., San Francisco.
Reinforcing Steel—W. C. Hauck & Co., 280 San Bruno Ave., S. F.
Steel Sash—Soule Steel Co., Rialto Bldg., San Francisco.
Miscellaneous Steel—Michel & Pfeiffer Iron Works, Harrison and Tenth Sts., San Francisco.
 Other awards will be made shortly. As previously reported plumbing and heating awarded to J. C. Plack, 721 W. Elm Street, Stockton, at \$14,800; electrical work to Collins Electric Co., 708 E. Market St., Stockton, at \$881.

MADERA, Madera Co., Cal.—Following bids taken under advisement until Feb. 3 by county supervisors for wiring and installation of electric heating stoves in Madera County Hospital:

	No.	
Olsen Electric Shop, Madera	1	\$1123
	2	1643
	3	2221
Valley Elec. Sup. Co., Fresno	1	1250
	2	1725
	3	2290
Robinson Elec. Co., Fresno	1	950
	2	547
	3	456
Chas. Eyman, Madera	1	1191
	2	1679
	3	2275

Plans Being Figured—Bids Close Feb. 30, 2 P. M.
COTTAGE Cost, \$25,000
STOCKTON, San Joaquin Co., Calif. State Hospital Grounds.
 Two-story reinforced concrete cottage for employees (floor area 6,700 sq. ft.)
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, state architect, Public Works Building, Sacramento.

Will have wood partitions, floor and roof construction and tile roof. Separate bids are wanted for
 1. General Work.
 2. Electrical Work.
 3. Plumbing and Heating Work.
 4. Complete Plumbing, Heating and Electrical Work.
See call for bids under official proposal section in this issue.

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Preparing Preliminary Plans.
ALTERATIONS Cost, \$—
AUBURN, Placer Co., Cal.
 Alterations and additions to County Hospital.
 Owner—County of Placer.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.
 Preliminary plans are to be submitted to the Board of Supervisors on February 10.

BERKELEY, Alameda Co., Cal.—See "Schools," this issue. Out-patient building planned by Regents of the University of California in connection with medical school campus in San Francisco.

HOTELS

Plans Being Prepared.
HOTEL Cost, \$125,000
SAN FRANCISCO. S Market St., W 12th Street
 Six-story and basement reinforced concrete hotel.
 Owner—J. T. Schlinger, 510 Battery Street.

Plans by L. H. Thomas, 901 Excelsior Ave., Oakland.
 Proposed project in the process of financing. More definite information will be given in about 30 days.

Contract Awarded.
HOTEL Cost, \$16,000
SALINAS, Monterey Co., Cal.
 One-story steel frame and concrete hotel.
 Owner—J. Trigonis, Salinas.
 Plans by Willia Huson, 102 Central Ave., Salinas.
 Contractor—Ronald Thompson, Salinas.

CALEXICO, Imperial Co., Cal.—Architect and Engineer Merrill & Wilson, Petroleum Securities Bldg., Los Angeles, announce that a bids have been rejected for the erection of a new hotel building at Calexico for Will Conway. Owner will proceed with construction immediately and desire sub-bids on all trades. Building will be irregular in shape and will contain eighty rooms, coffee shop, dining rooms banquet rooms, offices, three shops, patio. Frame and stucco construction with tile roofing. Cost, \$350,000.

Contract Awarded.
HOTEL & STORES Cost, \$30,000
SALINAS, Monterey Co., Calif. Central Avenue.
 Two-story and basement reinforced concrete hotel-apts. & store bldg. (stucco finish).
 Owner—C. C. Pontacq, 27 Central Ave., Salinas.
 Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
 Contractor—Fred. McCarr, 506 Fremont St., Monterey
 Construction has just been started.

Preparing Sketches.
HOTEL Cost, \$1,000,000
LAS VEGAS, Nevada
 Spanish type hotel (200 rooms).
 Owners—B. U. Cain and E. L. Olmstead (% Lamont & Co.)
 Architect—Hibbard, Gerity & Kerton, Architects' Pldg., Los Angeles.

Contract Awarded.
HOTEL Cost, \$3,500,000
PORTLAND, Oregon. Thirteenth and Fourteenth; Holladay and Multnomah Sts.
 Twenty-two-story class A steel frame and concrete hotel (500 rooms).
 Owner—Ralph B. Lloyd, Bank of Italy Bldg., Los Angeles.
 Architect—Morgan, Walls & Clements Van Noy Bldg., Los Angeles.
 Contractor—Dinwiddie C o n s t . Co., Crocker Bldg., San Francisco.
 Sub-bids will be taken in 30 days.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

LOS ANGELES, Cal.—Until 11 A. M., Jan. 21, bids will be received by the Los Angeles Board of Public Works for furnishing kitchen equipment for the Lincoln Heights jail, 419 N. Avenue 19, under Specifications No. 2306. The items are: range assembly; steam cookers, steam kettles, steam coffee urns, dishwashing machine, soiled and clean dish tables, cook's sink; pot sink; canopy over range and steam kettles; combination work table and steam table; laundry table; set-up table; maple butcher block; vegetable table; vegetable peeler; vegetable sinks; vegetable storage sink.
 Note: The date has been changed from Jan. 14 to Jan. 21 as shown above

Planned.
CIVIC BLDG. Cost approx. \$40,000
LINDSAY, Tulare Co., Cal. N Mirage Avenue.
 Two-story and basement brick and stucco civic building.
 Owner—City of Lindsay.
 Architect—Swartz and Ryland, Brix Bldg., Fresno; 373 Main St., Salinas and Spazier Bldg., Monterey.
 Bid section will be held to finance construction.

RESIDENCE

Contract Awarded.
RESIDENCE Cost, \$11,000
KING CITY, Monterey Co., Cal.
 Two-story and basement frame and stucco residence (7 rooms).
 Owner—L. Habes, King City.
 Architect—Miller and Warnecke, Financial Center Bldg., Oakland.
 Contractor—W. J. Smith, San Luis Obispo.
 Plans are to be slightly revised and construction will be started upon their completion.

Completing Plans.
ALTERATIONS Cost, \$—
ATHERTON, San Mateo County, Cal. Atherton Avenue.
 Alterations and additions to residence.
 Owner—Edward H. Heller, Atherton Ave., Atherton
 Architect—Henry H. Gutterson, 526 Powell St., San Francisco.
 Bids will be taken in one week.

Plans Being Completed.
RESIDENCE Cost, \$—
SAN FRANCISCO, St. Francis Woods.
 Two-story and basement frame and stucco residence (9 rooms).
 Owner—Dr. S. J. Hunkin, 1155 Bush Street.
 Architect—Henry H. Gutterson, 526 Powell Street.
 Bids will be taken in ten days.

Contract Awarded.
RESIDENCE Cost, \$15,400
BERKELEY, Alameda Co., Cal. Claremont Tract.
 Two-story and basement frame and stucco residence.
 Owner—Myron D. Taylor.
 Architect—W. R. Yelland, Financial Center Bldg., Oakland.
 Contractor—Jensen & Pedersen, 3443 Adeline St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$8000
SAN FRANCISCO. Baker St. (Marina District).
 One-story and basement frame and stucco residence (6 rooms).
 Owner—R. Cook.
 Architect—C. Chas. Strothoff, 2274 15th Street.
 Contractor—G. J. Elkington & Son, 1291 33rd Ave.

Contract Awarded.
ALTERATIONS Cost, \$11,000
BERKELEY, Alameda Co., Cal. 1140 Grizzly Peak Bld.
 Alterations to residence.
 Owner—Mrs. V. Mauzy, premises.
 Architect—Not Given.
 Contractor—Arthur W. Shaw, 5401 Broadway, Oakland.

Planned.
RESIDENCE Cost, \$300,000
MONTECITO, Santa Barbara Co., Cal. Riven Rock.
 Two-story stone residence (12 rooms).
 Owner—Stanley McCormick Estate, Santa Barbara.
 Architect—Not Given.

Contract Awarded.
RESIDENCE Cont. price, \$7820
SAN JOSE, Santa Clara Co., Cal. Margaret Street.
 Two-story and basement brick residence with the roof (9 rooms, 2 baths).
 Owner—Chas. Gladding, 1215 Yosemite St., San Jose.
 Architect—Charles McKenzie, Twohy Bldg., San Jose.
 Contractor—F. T. Edmans, 143 N. 8th St., San Jose.
Brick Work—F. H. Deagling, % Owner
 Bids on heating, painting and tile will be taken in about two weeks.

Plans Completed.
RESIDENCE Cost, \$500,000
LOS ANGELES, Cal. No. 246 San Rafael Avenue.
 Three-story and basement steel frame and reinforced concrete residence, (199x77 feet).
 Owner—Otto Thum.

Architect—Marston & Maybury, 25 S. Euclid Ave., Pasadena.
 Two fountains, nine fireplaces, steam heating system, elevator, pipe organ, incinerator, carved marble work, etc. Bids will be called for at a later date.

Plans Being Prepared.
ALTERATIONS Cost, \$—
ATHERTON, San Mateo Co., Cal. Atherton Avenue.
 Alterations and additions to residence
 Owner—Edward H. Heller, Atherton Ave., Atherton.
 Architect—Henry H. Gutterson, 526 Powell St., San Francisco.
 Plans will be ready for bids in about three weeks.

Plans Being Prepared.
RESIDENCE Cost, \$10,600
SAN JOSE, Santa Clara Co., Cal.
 One and one-half-story frame and stucco residence.
 Owner—Malcolm Donald, 68 S 2nd St., San Jose.

Plans by Russell Coleman, 1404 Broadway, Burlingame.

Sub-Bids Wanted.
RESIDENCE Cost, \$10,000
SANTA CRUZ, Santa Cruz Co., Cal.
 Two-story and basement frame and stucco residence (8 rooms).
 Owner—H. E. Murray, Santa Cruz.
 Plans by Russel Coleman, 1404 Broadway, Burlingame.

The Minton Co., Mt. View, is the only contractor filing the plans and they desire sub-bids on all portions of the work.

Plans Completed.
RESIDENCE Cost, \$15,000
OAKLAND, Alameda Co., Cal. Contra Costa Road.
 Two-story and basement frame and stucco residence (eight rooms and three baths).
 Owner—Witheld.
 Architect—Masten and Hurd, Shreve Bldg., San Francisco.

Bids will be called for at a later date.

Preliminary Plans Being Prepared.
MANSION Cost, \$250,000
SACRAMENTO, Sacramento Co., Cal.
 Two-story early California type (Governor's) mansion.
 Owner—State of California.
 Architect—State Department of Public Works, Division of Architecture, Geo. McDougall, state architect, Public Works Bldg., Sacramento.

Landscape work in connection with this project will involve an expenditure of \$15,000; furnishings \$50,000. Tennis courts costing \$6,000 and swimming pool costing \$13,000, are other features.

Contract Awarded.
RESIDENCE Cont. Approx. \$20,000
SANTA CRUZ, Santa Cruz Co., Cal.
 Two-story and basement frame and stucco residence.

Owner—Dr. Percy Phillips, 286 Walnut St., Santa Cruz.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.
 Contractor—The Minton Co., Mt. View.

Contract Awarded.
GARDENING Cost, \$—
HILLSBOROUGH, San Mateo Co., Cal.
 670 Brewer Drive.
 Terrace walls, landscape gardening, etc.

Owner—Chas. E. Henderson, premises Architect—W. W. Wurster, 260 California St., San Francisco.
 Contractor—G. W. Williams Co., Ltd., 1404 Broadway, Burlingame.
 Landscape Architect—Lockwood de Forest, Santa Barbara.

Contract Awarded.
RESIDENCE Cost, \$300,000
SEATTLE, Washington.
 Three-story reinforced concrete residence.

Owner—D. E. Frederick, Seattle.
 Architect—Lewis P. Hobart, Crocker Bldg., San Francisco.
 Contractor—Teufel & Carlson, Skinner Bldg., Seattle.
 The probability bids will not be called for. Work will be done by a Seattle contractor.

Sub-Bids Wanted.
RESIDENCE Cost, \$25,000
BERKELEY, Alameda Co., Cal. Claremont Pines.

Two-story frame and stucco residence and garage (9 rooms).
 Owner and Builder—A. H. Feasey, 210 Clara St., San Francisco.
 Architect—Masten and Hurd, Shreve Bldg., San Francisco.
 Hot air heating system.

Eids Opened.
RESIDENCE Cost, \$16,500
SAN JOSE, Santa Clara Co., Calif.
 Margaret Street

Two-story and basement brick residence with tile roof (9 rooms, 2 baths).
 Owner—Chas. Gladding, 1215 Yosemite St., San Jose.

Architect—Charles McKenzie, Twoby Bldg., San Jose.
 Low Bidder—F. T. Edmans, 143 N 8th St., San Jose.

Hot air heating system.
 Following is a complete list of bids:

F. T. Edmans, San Jose	\$7,820
M. W. Reese, San Jose	8,134
M. J. Nielsen, San Jose	8,195
Wm. Cowell, San Jose	8,571
G. M. Latta, San Jose	8,785
George Honore, San Jose	8,798
J. C. Thorp, San Jose	9,000
Ira Brotzman, San Jose	9,000
The Minton Co., Mt. View	9,077
R. St. Amers, San Jose	9,125
Thos. Hershback, San Jose	9,419
Megna & Newell, San Jose	9,750

Contract will probably be awarded to low bidder. Brick work will be done by the owner. Architect will call for bids on painting, heating and tile work at a later date.

Sub-Flures Being Taken.
RESIDENCE Cost, \$8500
REDWOOD CITY, San Mateo Co., Cal.
 Edgewood Park.
 One-story and basement frame and stucco residence.
 Owner and Builder—Paul Euthman, 415 Lincoln, Redwood City.
 Plans by Ernest Reichel, 303 University Ave., Palo Alto.

Preparing Working Drawings.
RESIDENCE Cost Approx. \$40,000
MONTEREY, Monterey Co., Cal.
 Two-story and basement frame and stucco residence (12 rooms).
 Owner—Withheld.
 Architect—W. Williams & Wastell, 374 17th St., Oakland.
 Bids will be taken in about three weeks.

CHICO, Butte Co., Cal.—C. I. Fisher and Son, N. W. Fisher of Wisconsin has purchased the Sisters Hospital tract near the Diamond Match Factory and plan immediate construction of fifty homes. The new firm will be known as the Fisher Lumber Co., and has purchased the O. E. Tracy lumber mill and cabinet shop at 8th and Pine Sts. and will commence mill work operations in connection with the home building project at once.

Bids Opened.
RESIDENCE Cost, \$12,000
KING CITY, Monterey Co., Cal.
 Two-story and basement frame and stucco residence (7 rooms).
 Owner—L. Hables, King City.
 Architect—Miller & Wernecke, Financial Center Bldg., Oakland.
 Low Bidder—W. J. Smith, San Luis Obispo.

Following is a complete list of bids received:

W. J. Smith, San Luis Obispo	\$11,572
G. W. Bruce, King City	11,680
T. D. Courtright, Oakland	11,790
The Minton Co., Mt. View	11,824
A. C. Sharp, Oakland	11,896
R. J. Bruce, King City	11,976
Jensen & Pedersen, Oakland	12,375
E. F. Wooley, Oakland	12,999
H. K. Henderson, Oakland	13,725

Contract will be awarded to the lowest bidder.

Contract Awarded.
RESIDENCE Cont. Price, \$7335
AGNEWS, Santa Clara Co., Cal. State Hospital.
 Two-story and basement frame and stucco residence.
 Owner—State of California.
 Architect—Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.
 Contractor—The Minton Co., Mt. View.

SCHOOLS

Ornamental Iron Contract Awarded.
SCHOOL Cont. Price, \$29,999
UPPER LAKE, Lake Co., Cal.
 One-story reinforced concrete high school (five classrooms and auditorium).
 Owner—Upper Lake Grammar School District.
 Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.
 Contractor—Petaluma Constr. Co., Petaluma.
Ornamental Iron—Patterson & Foster Iron Works, 280 13th St., S. F.
 Other awards reported Jan. 7, 1931.

SAN FRANCISCO—Until January 21, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to furnish, fabricate, and deliver structural steel for the proposed James Lick Junior High School, the contract for erection of which has already been awarded to J. Gerrick and Co., 74 New Montgom-

ery St., at \$2,568. Bids were originally scheduled for opening on this work January 7 but lacking a quorum of the Board of Public Works the bids were returned to the bidders unopened. Plans are obtainable from the Bureau of Architecture, 2nd floor, City Hall.

MONTEREY, Monterey Co., Cal.—Until January 23, 4 P. M., bids will be received by Monterey Union High School District to furnish and install machinery, equipment and fixtures in shop department of high school. Swartz & Ryland, architects, Spazier Bldg., Monterey. Certified check 10% required with bid. Specifications obtainable from clerk.

Bids to be taken in one week.
SCHOOL BLDGS. Approx. \$300,000
OAKLAND, Alameda Co., Cal. Piedmont Highlands (Edith St. near Morphett).
 Group of reinforced concrete high school buildings (academic building, auditorium and gymnasium; accommodated 500).

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
 Architect—H. A. Minton, Park of Italy Bldg., Eddy and Powell Sts., San Francisco.

Buildings will be constructed for the Sister of The Holy Name.

Plans Being Figured—Bids Close Feb. 16, 7:30 P. M.
GYMNASIUM, ETC. Cost, \$—
MONTEREY, Monterey Co., Cal.
 One-story reinforced concrete academic building with the roof.
 Owner—Monterey Union High School District.
 Architect—Swartz & Ryland, Spazier Bldg., Monterey.

Sub-Bids To Be Taken In One Week.
MEMORIAL Cont. price \$116,995
BERKELEY, Alameda Co., Cal. Campus of University of California.
 Two-story class A concrete Esheleman Memorial Bldg. (student publishing building).

Owner—Regents of the University of California, Berkeley.
 Architect—G. W. Kelham, 315 Montgomery St., San Francisco.

Contractor—J. J. Groden & Co., 1028 San Antonio Ave., Alameda.
 As previously reported, heating, plumbing and ventilating and electrical work awarded to The Turner Co., 329 Tehama St., San Francisco, at \$22,035.

Plans Being Prepared.
SCHOOL Cost, \$20,000
UKIAH, Mendocino Co., Calif. Redwood Valley District.
 One-story school (reinforced concrete walls).
 Owner—Redwood Valley Union School District.
 Architect—Norman R. Coulter, 46 Kearny St., San Francisco.

BERRYESSA, Santa Clara Co., Cal.—Until January 24, 7:30 P. M., bids will be received by Don E. Tuttle, clerk, Berryessa School District, for concrete work, windows, doors, plumbing and electric work in connection with completion of cafeteria unit of school plant. Specifications obtainable from above.

Commissioned To Prepare Plans.
ADDITIONS Cost, \$154,000
SALINAS, Monterey Co., Calif.
 Additions to two schools and construct new unit (probably brick and steel construction).
 Owner—Salinas City School Dist. (Arthur Walter, Super. of Schools).
 Architect—J. J. Donovan, 1916 Broadway, Oakland.

Construction of buildings depends upon the passage of a bond issue to be voted upon Feb. 3.

January 14, 1930

Sub-Bids Being Taken.
SCHOOL BLDGS. Cost, \$—
 NAPA, Napa Co., Cal. Napa Red-woods.
 Three-story reinforced concrete school buildings (4 units and chapel).
 Owner—La Salle Institute, Martinez.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Contractor—J. P. Erennan, 354 Hobart St., Oakland.
 Two football fields, two baseball diamonds and a gym for both the juniors and the senior novices will be constructed. Minor sports will also be arranged for. A swimming pool is in the plans.

SAN MATEO, San Mateo Co., Cal.
 —Until February 5, 4 P. M., bids will be received by John D. Bromfield, clerk, San Mateo High School District, for planting material for high school grounds. Specifications obtainable from the Superintendent of Schools at San Mateo.

MARTINEZ, Contra Costa Co., Cal.
 —Until February 10, bids will be received by William H. Hanlon, city superintendent of schools, to furnish and deliver standard school supplies for fiscal year beginning July 1, 1931, and ending June 30, 1932. Specifications obtainable from above.

Bids Wanted—To Be Opened Jan. 29.
SCHOOL BLDGS. Approx. \$300,000
OAKLAND, Alameda Co., Cal. Piedmont Highlands (Edith Street near Morpeth).
 Group of reinforced concrete high school buildings (academic buildings, auditorium and gymnasium; accommodate 500).
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
 Architect—H. A. Minton Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.
 Buildings will be constructed for the Sister of The Holy Name.

SAN FRANCISCO— Following bids taken under advisement by Leonard S. Levy, city purchasing agent, under Proposal No. 673, to furnish and deliver 124 opera chairs in Choral Room of the Francisco Junior High School
 C. F. Webber Co., bidding, alternate (a) \$5.14 each; 35 days.
 Stevenson and Sons, bidding on alternate (a) \$5.67 each; 60 days.
 F. E. Turner, \$6.65; 45 days.
 C. E. Corby, \$6.72; (a) \$7.07; 60 days.
 Heywood Wakefield Co., \$6.77; (a) \$6.52; 60 days

Plans Being Figured—Bids Close Jan. 26th.
SCHOOL Cost, \$150,000
LOS ANGELES, Cal. 32nd St. School Site.
 Two-story class B brick and concrete school (24 units).
 Owner—Los Angeles City School Dist.
 Architect—A. S. Nibecker, Jr., Los Angeles.

Bids To Be Taken Shortly.
COLLEGE BLDGS. Cost, \$500,000
PASADENA, Los Angeles Co., Calif. Campus of California Institute of Technology.
 Two 2- and 3-story reinforced concrete college bldgs. (geology laboratory and astrophysics laboratory).
 Owner—California Institute of Technology.
 Architect—Mayers, Murray & Phillip, Bertram G. Goodhue, associated, 2 W 4th St., New York City.

Preparing Plans.
SCHOOL Cost, \$100,000
PASADENA, Los Angeles Co., Calif. Royal Villa St.
 Reinforced concrete school addition.
 Owner—Pasadena City School Dist.
 Architect—Bennett & Haskell, First Trust Bldg., Pasadena.

BURLINGAME, San Mateo Co., Cal.
 —Rev. H. J. Lyne, pastor of St. Mathew's Catholic Church, announces plans for a new parochial school in connection with Our Lady of Angels Parish in Burlingame.

BANKS, STORES & OFFICES

Plans Being Completed.
BANK Cost, \$60,000
SAN JOSE, Santa Clara Co., Cal. 1st Street.
 Two-story steel and concrete bank (25x137 1/2-ft)
 Owner—Italian National Bldg. & Loan Assn., 524 Montgomery St., San Francisco.
 Architect—F. Eugene Barton, Crocker Bldg., San Francisco.
 Will have terra cotta front, bronze grills, marble floors and counters, vault door, etc. Bids will be taken in two or three weeks.

Date of Opening Bids Postponed.
STORES Cost approx. \$75,000
OAKLAND, Alameda Co., Cal. SW 19th St. and Broadway.
 Group of 1-story steel frame and terra cotta shops and stores.
 Owner—Twentieth & Broadway Realty Co., Oakland.
 Architect—A. J. Evers, 525 Market St., San Francisco.
 Due to the illness of Mr. Fisher opening of bids has been postponed indefinitely.

Plans Being Prepared—Contract Awarded.
REMODELING Cost, \$50,000
SAN FRANCISCO. First and Mission. Remodel present building.
 Owner—C. C. Moore & Co., Sheldon Building.
 Architect—Fred H. Meyer, 525 Market Street.
 Contractor—Geo. Wagner, 181 South Park St.
 It is indefinite at this time when proposed work will go ahead.

Preparing Plans. Cost, \$100,000
OFFICES
LONG BEACH, Los Angeles Co., Cal. NE First and Locust Streets.
 Two and three-story reinforced concrete offices.
 Owner—Long Beach Building & Loan Association.
 Architect—W. Horace Austin, Pacific Southwest Bank Bldg., Long Beach

Completing Plans. Cost, \$25,000
OFFICES
BURLINGAME, San Mateo Co., Cal. Broadway.
 Two-story steel frame and concrete office and store building.
 Owner—Leo Escoses, 5486 Mission St., San Francisco.
 Plans by Russell Coleman, 1404 Broadway, Burlingame.
 Sub-bids will be taken by owner about Jan. 17. Plans and specifications obtainable from Mr. Coleman.

Plans Being Figured—Bids Close Jan. 27th. Cost, \$250,000
STORE
LOS ANGELES, Cal. 537-41 S Broadway.
 Six-story and basement class A reinforced concrete brick and steel store.
 Owner—F. & W. Grand Silver Stores, Inc., 902 Broadway, Los Angeles.
 Architect—Walker & Eisen, Western Pacific Bldg., Los Angeles.

Contract Awarded.
STORE Cost. Price, \$24,000
SALINAS, Monterey Co., Cal. Main Street.
 One-story and mezzanine floor and basement reinforced concrete and steel department store.
 Owner—Porter & Irvine, 210 Main St., Salinas.
 Architect—M. W. Morrison, 601 42nd Ave., San Francisco.
 Contractor—E. F. Reese, 153 Central Ave., Salinas.
Ornamental Iron—San Jose Iron Wks. 535 W-San Carlos St., San Jose.

Preparing Working Drawings.
STORE Cost, \$—
SANTA CLARA, Santa Clara Co., Cal. Two-story reinforced concrete store and offices.
 Owner—Eugene Simas, 675 Washington St., Santa Clara.
 Architect—Wolf and Higgins, Realty Bldg., San Jose.

Contracts Awarded. Cost, \$—
ALTERATIONS
OAKLAND, Alameda Co., Calif. 451 12th Street.
 Alterations to store (new store fronts, etc., Oakland).
 Owner—Excelsior Laundry, 2116 West St., Oakland.
 Architect—Guy L. Brown, American Bank Bldg., Oakland.
Plate Glass W. F. Fuller Co., 301 Mission St., San Francisco.
Mill Work—Lannom Eros, Planning Mill Fifth and Magnolia Sts., Oakland.
Iron—Paul Romak, 3630 Victor Ave., Oakland.
Plastering—J. Pardon.

Contract Awarded. Cost, \$—
ALTERATIONS
SAN MATEO, San Mateo Co., Calif. 140 Third Ave.
 Alterations to present store.
 Owner—Martin Stelling and E. L. Gould, 155 Montgomery St., San Francisco.
 Architect—Bertz, Winter and Maury, 110 Sutter St., San Francisco.
 Contractor—Clinton Stephenson Construction Co., Monadnock Bldg., San Francisco.
 Sub-bids are wanted on hot coating and concrete work.

Sub-Contracts Awarded. Cost, \$50,000
OFFICES
SAN FRANCISCO. Post and Scott Streets.
 Three-story brick offices.
 Owner—Eureka Enevolent Society, 426 O'Farrell St.
 Architect—Hyman & Appletton, 68 Post Street.
 Contractor—A. F. and C. W. Mattock, 212 Clara St.
Painting—D. Zelinsky and Sons, 165 Grove Street.
Heating—James Pinkerton, 927 Howard Street.
Plumbing—E. Sugarman, 3624 Geary.
Electric Wiring—Atlas Elec. & Eng. Co., 343 4th St.
 Other sub-contracts will be awarded shortly.

Preparing Preliminary Plans.
MEDICO-DENTAL BLDG. Cost, \$350,000
SAN JOSE, Santa Clara Co., Calif. W Santa Clara St. (site of old Notre Dame Convent).
 Fifteen-story and basement class A steel frame and reinforced concrete Medico-Dental Building (2 elevators).
 Owner—Medical Arts Bldg. Corporation (now being organized).
 Architect—W. H. Wee k s., Bank of Italy Bldg., San Jose, and 111 Sutter St., San Francisco.
 Proposed project is in process of promotion. Foundation and excavation bids have been taken and are being held under advisement.

Contract Awarded.
STORE Cost, \$—
SALINAS, Monterey Co., Cal.
 One-story steel frame and concrete
 store building.
 Owner—J. Trigonis, Salinas.
 Plans by Mr. Thompson.
 Contractor—Ronald Thompson, Sa-
 linas.

Plans Being Revised.
STORE Cost, \$100,000
OAKLAND, Alameda Co., Calif. 1711
 Broadway.
 Two-story and basement reinforced
 concrete store (75x110-ft.)
 Owner—Mrs. Phillip E. Bowles, Russ
 Bldg., San Francisco.
 Architect—Douglas Stone, 1706 Broad-
 way, Oakland.
 New bids will be taken in one week.

Excavation Contract Awarded.
BANK Cost, \$200,000
MONTREY, Monterey Co., Cal. Loca-
 tion not selected.
 One-story and mezzanine steel frame
 and concrete bank with tile roof.
 Owner—Monterey County Trust and
 Savings Bank.
 Architect—H. H. Winner Co., 589
 Market St., San Francisco.
 Mgr. of Const.—Mark Finlayson, %
 architect.

Excavation—M. J. Murphy, Carmel.
 Segregated bids will be taken by the
 architect on other portions of the
 work within one week.

Contract Awarded.
PHONE EXCHANGE Cost, \$475,000
TACOMA, Wash. Ninth and Fawcett
 Streets.

Four-story and basement (ultimate 8-
 story) class A telephone exchange,
 face brick and terra cotta exter-
 or.
 Owner—Pacific T. & T. Co.
 Architect—Hill, Mock and Morrison,
 Tacoma, Wash.

Contractor—Sound Construction and
 Engineering Co., Northern Life
 Tower, Seattle, and C. E. Bonnell
 and Son, Tacoma, Wash.

Contract Awarded.
ALTERATIONS Cost, \$7500
SAN FRANCISCO, No. 650 Second St.
 Alterations to offices.
 Owner—C. F. Weber & Co., 650 Second
 St., San Francisco.
 Architect—J. E. Norberg, 580 Market
 St., San Francisco.
 Contractor—J. W. Cobby & Son, 260
 Tehama St., San Francisco.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$12,500
OAKLAND, Alameda Co., Cal. 518
 Sixteenth St.

Alterations to present store.
 Owner—Oakland Remedial Loan Assn.,
 45 1/2 St., Oakland.

Plans by Contractor.
 Contractor—S. Kulcher & Son, 731 E
 Tenth St., Oakland.

Vault Work—Oakland Concrete and
Terrazzo Co., 2227 Market Street,
Oakland.

Plumbing—H. G. Newman Co., 2004
Telegraph Ave., Oakland.

Plastering—Sam Hedrick.
Brick Work—Herman Block, 1408 E
36th St., Oakland.

Electric Work—California Electric Co,
579 18th St., Oakland.

Steam Heating—Eel Heating & Sheet
Metal Co., 5820 College Avenue,
Oakland.

Contract Awarded.
BANK BLDG. Cost, \$100,000
HICO, Butte Co., Cal. Broadway and
 Second Sts. (56x11 feet).
 One-story reinforced concrete bank
 (steel trusses, marble work, etc.)
 Owner—Bank of Italy.
 Architect—H. A. Minton, Bank of Italy
 Bldg., Eddy and Powell Sts., San
 Francisco.
 Contractor—James L. McLaughlin Co.,
 251 Kearny St., San Francisco.

Bids Wanted.
STORE Cost, \$—
MODESTO, Stanislaus Co., Cal. No.
 922-24 Tenth Street.
 Two-story and basement Class C brick
 store (60x140 feet).
 Owner—S. H. Kress Co., Western
 Pacific Bldg., Los Angeles.
 Architect—Eng. Dept. of Owner.
 Cement and wood floors, plate glass,
 metal store fronts, etc.

Preparing Working Drawings.
BANK Cost, \$100,000
OAKLAND, Alameda Co., Cal.
 Two-story steel frame and concrete
 bank.

Owner—Italian National Building &
 Loan Assn., 524 Montgomery St.,
 San Francisco.

Architect—F. Eugene Barton, Crocker
 Bldg., San Francisco.
 Terra cotta exterior, marble floors
 and counters, bronze screens, vaults,
 etc.

Bids will be called for in about 30
 days.

THEATRES

Plans Being Prepared.
THEATRE Cost, \$150,000
BERKELEY, Alameda Co., Calif.
 New theatre.

Owner—United Artists Theaters of
 California (Jos. M. Schenck, vice-
 president), 1966 S Vermont St.,
 Los Angeles.

Architect—Walker & Eisen and C. A.
 Baich, Western Pacific Bldg., Los
 Angeles.

Plans Being Prepared.
THEATRE Cost, \$150,000
RICHMOND, Contra Costa Co., Calif.
 New theatre.

Owner—United Artists Theaters of
 California (Jos. M. Schenck, vice-
 president), 1966 S Vermont St.,
 Los Angeles.

Architect—Walker & Eisen and C. A.
 Baich, Western Pacific Bldg., Los
 Angeles.

Plans Being Prepared.
THEATRE Cost, \$150,800
PALO ALTO, Santa Clara Co., Calif.
 New theatre.

Owner—United Artists Theaters of
 California (Jos. M. Schenck, vice-
 president), 1966 S Vermont St.,
 Los Angeles.

Architect—Walker & Eisen and C. A.
 Baich, Western Pacific Bldg., Los
 Angeles.

Plans Being Prepared.
THEATRE Cost, \$150,000
SAN JOSE, Santa Clara Co., Calif.
 New theatre.

Owner—United Artists Theaters of
 California (Jos. M. Schenck, vice-
 president), 1966 S Vermont St.,
 Los Angeles.

Architect—Walker & Eisen and C. A.
 Baich, Western Pacific Bldg., Los
 Angeles.

Contracts Awarded.
REMODELING Cost, \$175,000
SAN FRANCISCO, 1966 Market Street
 (Paramount Theatre).
 Remodel present theatre (redecora-
 tion, lighting fixtures, etc.)

Owner—Fox West Coast Theatres, Inc.
 1350 Market St.

Plans by Eng. Dept. of Owner.
Carpentry—Alfred J. Hopper, 1769
Pleasant Valley Ave., Piedmont.

Marble—Jos. Musto Sons-Keenan Co,
535 North Point St.
Decorating—Cliff Heinsberger, Los
Angeles.

Electric Fixtures—Boyd Lighting Fix-
ture Co., 278 Post St.

Plans Being Completed.
THEATRE Cost, \$200,000
MERCED, Merced Co., Cal. Seventh
 and J Sts. (150x150-ft.)

Two-story class C steel frame and
 reinforced concrete theatre, stores
 and office building (theatre to seat
 1700).

Owner—Golden State Theatres, Inc.,
 988 Market St., San Francisco.
 Architect—Reid Bros., 105 Montgom-
 ery St., San Francisco.

Contractor—Salih Bros., Golden Gate
 Theatre Bldg., San Francisco.
 Sub-Bids will be taken in about two
 weeks.

As previously reported, excavation
 awarded to J. W. Huffman, Merced.

Plans Being Completed.
THEATRE Cost, \$100,000
SAN MATEO, San Mateo Co., Cal.
 Two-story class C concrete and steel
 theatre and store (to seat 1000;
 contain four stores).

Owner—W. S. Leadley, 207 2nd Street,
 San Mateo.

Architect—S. Chas. Lee, 2404 W 7th
 St., Los Angeles.

Contractor—Leadley & Wiseman, 207
 2nd St., San Mateo.
 Sub-bids will be taken in about two
 weeks.

WHARVES AND DOCKS

January 9, 1931

Plans Being Prepared.
SHED Cost, \$125,000
SAN FRANCISCO, Pier
 Shed and bulkhead building (150x800-
 ft.; steel frame construction with
 concrete walls).

Owner—State Board of Harbor Com-
 missioners.
 Engineer—Frank White, Ferry Bldg.
 Sub-structure is nearing completion.
 Total cost of project, \$700,000. Bids
 will be called for about Feb. 15.

MISCELLANEOUS CONSTRUCTION

SAN FRANCISCO—Frank G. White,
 chief engineer, State Harbor Com-
 mission, Ferry Bldg., announces \$225,000
 will be expended in raising the level
 of the Embarcadero sidewalk and bulk-
 head between the south end of the
 Southern Pacific waterfront baggage
 depot and Pier No. 24. The raise,
 which will average about three feet,
 will compensate for a gradual sinking
 resulting from the deterioration of the
 old 1912 seawall. Work on the project
 will start some time in February,
 contingent on the approval of the in-
 coming harbor board.

Sub-Contracts Awarded.
GRANDSTAND, ETC. Cost, \$1,250,000
SAN FRANCISCO, Fifteenth St. and
 Potrero Ave.

Baseball Park, Class A steel and con-
 crete grandstand, 1000 ft. long.

Owner—San Francisco Baseball Club,
 15th and Valencia Sts.

Engineer—H. J. Erunnier, Sha r o n
 Bldg.

Contractor—Lindgren and Swinerton,
 Inc., 225 Bush St.

Mill Work—Pacific Mfg. Co., Monad-
nock Bldg.

Light Towers—Pacific Coast Steel Co.,
215 Market St.

Elevators—Spencer Elevator Co., 166
Seventh St.

Ornamental iron bids are now being
 taken.
 As previously reported, plumbing
 awarded to Wm. J. Forster Co., 355
 4th St.; steel sash to Tyre Bros., 666
 Townsend St.; reinforcing steel to Pa-
 cific Coast Steel Co., 215 Market St.;
 lumber to Christensen Lbr. Co., Fifth
 and Hooper Sts.; lawn sprinkler sys-
 tem to The Turner Co., 329 Tehama
 St.; excavation to Shieby Grading and
 Teaming Co., 160 Landers St.

UKIAH, Mendocino Co., Cal.—Due
 to a misunderstanding of the bidders
 with regard to time of delivery, the
 city council will ask new bids to fur-

nish f.o.b. cars, Ukiah, two 5000 cu. ft. riveted gas tanks, 6-ft. dia. by 30 ft. long, $\frac{3}{8}$ -in. shell and $\frac{1}{2}$ -in. heads. Equipped with one 11x15-manhole in head, three 2-in. forged steel flanges, one $4\frac{1}{2}$ -in. dial pressure gauge, designed for 90 lb. per sq. in. working pressure and building in accordance with A. S. M. E. Code for Unfired Pressure Vessels. Further mention will be made of this project when a new date for opening bids is set. Fred L. Bosworth is city clerk.

Preliminary Plans Being Prepared. CREMATORY, ETC. Cost, \$3—BAKERSFIELD, Kern Co., Cal. Crematory, chapel and columbarium. Owner—Bakersfield Memorial Park (J. K. McAlpine, promoter), Bakersfield.

Architect—Edwin J. Symmes, Bakersfield Bldg., Bakersfield

SAN FRANCISCO—Following bids received by Board of Supervisors for garbage disposal have been referred to City Engineer M. M. O'Shaughnessy for report:

San Francisco Disposal Company, (Floyd E. Harter, vice-president)—Erect plant on company's own plans on city-owned land. Plant to be of Superior Incinerator Company's design. Bids \$100 for a twenty-five-year franchise; to erect plant to incinerate 800 tons a day. Will begin work in four months after award of contract, completing plant in one year. City given right to acquire plant at any time for \$900,000. Price to be \$1 per ton.

Octavious Torre Jr. and Antonio Falliano.

Bid No. 1—To erect plant on plans of the City Engineer, installing Sterling-type furnaces and equipment, capacity 800 tons daily. Price to be not in excess of \$2.32 a ton. Set recapture figure at \$1,200,000 less depreciation.

Bids No. 2—Build plant on own plans and specifications, using Sterling type equipment. Price per ton not in excess of \$2.05. Recapture figure \$1,038,700, less depreciation.

Above two bids provide for repeal of the initiative ordinance fixing \$1 a ton for incineration. Both bids offered \$1000 for the franchise.

Dumping at sea bids were submitted by J. H. Baxter & Co., who set a price of \$1 a ton, and offered to begin operations two to four months after award of contract, and from Walter C. O'Brien and Frank P. O'Kane. The latter offered a sliding scale of prices to be charged for dumping, running from 24 to 37 cents a ton. They offered to sell plant to city at any time for \$462,000, less depreciation. Two per cent of the total collections were offered the city in return for the franchise.

SAN FRANCISCO—Pacific Coast Steel Corp., 215 Market St., a \$1,785 awarded contract by Board of Supervisors to furnish and erect steel towers for radio broadcasting system for Police and Fire Departments. Graybar Electric Co., 9th and Howard Sts. at \$7,000 awarded to furnish tubes in connection with the same project.

ALAMEDA, Alameda Co., Calif.—All bids received by City Purchasing Agent have been rejected for painting and spraying fences at Lincoln Park Nursery on Fernside Blvd., pump house at Jackson Park, fence at McKinley Park and pump house, etc., at Washington Park.

Lowest bid was submitted by Hauck & Huber, 1012 Eagle Ave., Alameda, at \$1080. New bids will be called for shortly.

MISCELLANEOUS SUPPLIES AND MATERIALS

GLENDALE, Los Angeles Co., Cal.—Until 10 A. M., Jan. 22, bids will be received by the city council for furnishing f. o. b. warehouse by truck, 115 N. Howard St., Glendale:

Item 1—30,000 lbs. No. 2-0 stranded, 7 strands, bare, medium hard drawn copper wire.

Item 2—650 lbs. No. 4-0 stranded, 19 strands, bare, soft drawn copper wire. The quantity specified may be increased or decreased 25% at the option of the city, at any time before signing of contract. Certified check, 10%. G. E. Chapman, city clerk.

SAN FRANCISCO—Until Jan. 26, 2 P. M., bids will be received by U. S. Forest Service, Ferry Bldg., to furnish and deliver 2,176 metal porcelain enamel road and trail direction and miscellaneous signs. Specifications obtainable from above on request.

FRESNO, Fresno Co., Cal.—Until February 12, 5 P. M., bids will be received by L. L. Smith, Secretary, Board of Education, 2425 Fresno St., for the sale of 19 used typewriters and the purchase of 19 new typewriters. Bid bond or certified check 10% required with bid. Further information obtainable from meseretary.

SAN FRANCISCO—Following bids received by Board of Supervisors to furnish and deliver 35 road receiving sets for the Department of Electricity:

Julius Brunson and Sons, \$94.71 each; alt. (a) \$80.06; (b) \$85.55. Delivery 60 days.

U. S. Motor Service, \$97.50 each; delivery 60 days.

Electric Lighting Supply Co., \$112; delivery 45 to 60 days.

Graybar Electric Co., \$99 each; delivery 30 days.

Sierra Equipment Co., \$171; delivery 90 days.

BUSINESS OPPORTUNITIES

Names and addresses of persons or firms concerned in the following opportunities will be furnished on request to Business Opportunity Department, Daily Pacific Builder, 547 Mission St., San Francisco or Phone GARfield 8744:

20761—Representation. Berlin, Germany. Firm offers to advise and to help San Francisco merchants or manufacturers for any current or intended business with merchants or manufacturers in Germany, Austria and Switzerland. Can correspond in German, English and French.

20762—Representation. Bremen, Germany. Firm established since 1895 is in a position to handle on a large scale any commodity for which a trade can be established on the German and continental markets.

20766—Business Machines. Honolulu, T. H. Firm wishes list of wholesalers, manufacturers and dealers of business machines, equipment and stationery.

20767—Single Phase Motors. Los Angeles, Calif. Firm is interested in contacting manufacturers of single phase motors from $\frac{1}{2}$ to $1\frac{1}{2}$ horsepower.

The number of homes in the United States wired for electricity was estimated at 19,721,486 on January 1 of this year, the electrical division of the Department of Commerce reports. This figure now has very likely advanced to well over 20,000,000. The 1930 figure represents a substantial increase over the number of homes estimated to be wired on January 1, 1929, which was 19,012,664. Likewise, the 1929 number of wired homes increased over 1927, which totaled 15,925,060. In 1923, New York state led the Union with 2,977,426 electrified homes, followed in order by Pennsylvania, Illinois, California, and Ohio.

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DAILY PACIFIC BUILDER

The only daily construction newspaper affording complete coverage of the construction activities in Central and Northern California — featuring work contemplated, bids wanted, bids opened, contracts awarded, sub-bids wanted and sub-contracts let on all types of building construction; bridges, dams and harbor works, irrigation projects; machinery and equipment; water works and supplies; business opportunities; building permits; building contracts, mechanics' liens; acceptances, etc., etc.

Keep informed on construction developments in Central and Northern California, and the major projects in Southern California, the states of Oregon, Washington, Nevada and Arizona.

Engineering News Section

BRIDGES

HILLSBOROUGH, San Mateo Co., Cal.—Town Clerk John A. Hoey instructed to advertise for bids to widen bridge over San Mateo Creek on the Stonehedge road.

SONORA, Tuolumne Co., Cal.—City council has ordered bids received to reconstruct Stockton Street bridge, involving widening to 18-ft. and lengthening same to eliminate "S" turn. Plans on file in office of city clerk.

NAPA, Napa Co., Cal.—City Engineer H. A. Harrold completes plans for Brown St. bridge; estimated cost \$11,000. City has \$6000 available for construction. Action on the plans deferred.

SANTA ROSA, Sonoma Co., Cal.—Frank Bryant, 2911 23rd Street, San Francisco, at \$17,344 awarded contract by county supervisors to construct a 140-ft. riveted steel truss bridge over Sonoma Creek near the Sonoma State Home in the First Supervisorial District. Project involves:

- (a) 185,000 lbs. struc. steel;
- (b) 202 cu. yds. class "A" concrete;
- (c) 225 cu. yds. struc. excav.;
- (d) 25,000 lbs. reinf. steel;
- (e) 2,500 cu. yds. approach fills.

Following is a complete list of bids:

Frank Bryant	\$17,344
Leix & Whitehead	17,352
W. C. Colley	17,550
Red Smith	18,383
Ralph Hunter	18,600
M. B. McGowan	18,659
Harry Thorsen	18,700
W. L. Proctor	18,759
Peter McHugh	19,665
Albert Helwig	19,656
Larsen Eros	19,975
Ben. C. Gerwick	20,112
F. J. Laurer & Son	20,317
A. T. Howe	20,700
Sciarrino & Sneed	20,851
Sullivan & Sullivan	20,399
Wm. Spiwock	21,300
Geo. Hudson	21,400
Smith Bros.	21,450
C. Emil Force	23,816

OAKLAND, Cal.—Until February 2, 10:30 A. M., bids will be received by George E. Gross, county clerk, to construct steel and concrete bridge on Redwood Road in Eden Township; estimated cost, \$10,000. Plans obtainable from County Surveyor George A. Posey.

PORTLAND, Ore.—Lindstrom & Felgenson, Railway Exchange Bldg., Portland, at \$89,617.50 for fill piling and \$57,417.50 for cedar piling, submitted low bid to Multnomah County Commissioners to recondition the Hawthorne Bridge. Edelfsen-Weyandt Co., 280 Front St., Portland, at \$35,690.75 submitted low bid for abutments, paving and fill in connection with the same project. Taken under advisement.

DREDGING, HARBOR WORKS & EXCAVATIONS

VENTURA, Ventura Co., Cal.—Until Feb. 3, 10 A. M., bids will be received by county supervisors to construct four protection jetties, each 100 ft. long, made of r. r. rails fabricated into the forms of tetrahedrons, involving:

(a) 28 tons used 60-lb. rails; (b) 13 cu. yds. class B concrete. That Contract No. 718. Plans obtainable from Chas. W. Pettit, county surveyor.

LONG BEACH, Cal.—The Standard Dredging Co., Central Bldg., Los Angeles, at 16.95 (\$113,193) awarded contract by U. S. Engineer Office for credits in Long Beach Harbor and Cerritos Channel, involving 774,000 cu. yds.

RENO, Nevada.—Disapproval of the request of the Newlands project board for \$200,000 in federal funds for the enlargement of the Lahontan power plant has been expressed by Dr. Elwood Mead, commissioner of reclamation, who has addressed the board a letter upon the subject. The commissioner of reclamation makes the following objections:

That there is no sufficient money in the reclamation fund to permit the appropriation requested.

That it is contrary to the policy of the bureau, the department of the interior and of congress to advance federal funds for a long period of time, without making interest charges.

That it is also contrary to the policy of the government to make new contracts under which power revenues upon irrigation projects will accrue to the districts after repayment is made.

That it is likewise contrary to government policy to undertake further construction upon irrigation projects after such projects have been taken over for operation and maintenance by the water users.

In requesting the appropriation the project board asked that it be given the \$200,000 loan referred to for a period of forty years without interest. It also asked that the net revenues accruing from the new power unit accrue to the project after repayment of the loan should be made. Referring to the latter request Commissioner Mead said that it is now the policy of the government to convert all project power revenues into the reclamation fund after government loans for construction are fully repaid by the project.

RICHMOND, Contra Costa Co., Cal.—Following bids received January 3 by U. S. Engineer Office, San Francisco, for furnishing (a) 81,000 tons of core rock and (b) 18,000 tons of facing rock and building extension to the training wall in Richmond Harbor:

- (1) Healy-Tibbitts Const. Co., 64 Pine St., San Francisco.
- (2) Kern and Kibbe, 290 E. Salmon St., Portland, Oregon.
- (3) Blake Bros., Balboa Bldg., San Francisco.

	(A)	(B)
(1)	\$8975	\$2,55
(2)	93	2,75
(3)	100	2,50

Taken under advisement.

LONG BEACH, Cal.—Standard Dredging Co., Central Bldg., Los Angeles, at 16.95 cu. yd., submitted low bid to U. S. Engineer's Office, Los Angeles, for dredging in Long Beach Harbor and in the Cerritos Channel turning basin. Project involves 774,000 cu. yds.

LANCHA PLANA, Amador Co., Cal.—California Debris Commission, California Fruit Bldg., Sacramento, will hold public hearing January 19 on the application of the Lancha Plana Gold Dredging Company to move by the hydraulic process approximately 700,000 cubic yards of debris located one mile from Lancha Plana, Amador County, draining into Mokelumne River, and to store debris in pits, resulting from removal of sand and gravel for construction of Paradise Dam.

LOS ANGELES, Calif.—San Francisco Bridge Co., 14 Montgomery St., San Francisco, was awarded the contract by the U. S. Engineer at \$255,500 (estimate) or 18.25c cu. yd. for dredging approx. 1,400,000 cu. yds. material in the East Basin Channel, Los Angeles Harbor, and in Cerritos Channel, to hook up with similar work to be done in Long Beach. Engineer's estimate, not including overhead, \$283,260.

REDWOOD CITY, San Mateo Co., Cal.—Standard Dredging Co., 414 13th St., Oakland, at 7.94c cu. yd., submitted low bid to U. S. Engineer Office, Custom House, San Francisco, for dredging in Redwood Creek, involving 614,750 cu. yds. Complete list of bids follows:

Standard Dredging Co.	7.94c
Franks Contracting Co.	8.99c
Hydraulic Dredging Co.	13.25c
S. F. Bridge Co.	14.00c
Engineer's estimate	7.73c

Taken under advisement.

SAN DIEGO, Cal.—Western Dredging Co., 611 Security Title Insurance Bldg., Los Angeles, awarded contract by U. S. Engineer at \$297,000 (estimate) for dredging approx. 825,000 cu. yds. material from an area of about 185 acres in thine NE portion of San Diego Harbor. The area lies westerly of the western waterfront of the city of San Diego, extending from Municipal Pier No. 1 to Spreckels Wharf. Other bids were: Standard Dredging Co., 37.9c; San Francisco Bridge Co., 39c; Morris & Cummings Dredging Co., New York City, 68c. The engineer's estimate was \$329,200.

STREET LIGHTING SYSTEMS

EUREKA, Humboldt Co., Cal.—City council starts proceedings to install electroler system on Fourth St., bet. Broadway and J streets; estimated cost \$15,000. E. D. Gardner, city engineer.

SANTA ROSA, Sonoma Co., Cal.—City Manager C. O. Dunbar recommends extension of the present street lighting system. 23

SAN LEANDRO, Alameda Co., Cal.—R. Flatland, 1839 Mission St., San Francisco, at \$6200 submitted low bid to city trustees to install street lighting system in Dutton Ave., involving 29 electroler standards with underground system. Other bids: City Improvement Co., (C. N. Chick), 2655 Center St., Berkeley, \$6400; Butte Electric & Mfg. Co., 956 Folsom St., San Francisco, \$7950. Taken under advisement.

SAN FRANCISCO—NePage-McKenney Co., 7 Front Street, at \$66 each, awarded contract by Board of Supervisors to furnish 300 concrete electrolier standards in connection with city's boulevard system.

Taper Tube Pole Co., Monadnock Bldg., at \$85 each, awarded contract to furnish 600 metal standards.

MACHINERY AND EQUIPMENT

MONTEREY, Monterey Co., Cal.—Until January 23, 3 P. M. bids will be received by Monterey Union High School District to furnish and install machinery, equipment and fixtures in shop department of high school. Swartz & Ryland, architects, Spazier Bldg., Monterey. Certified check 10% required with bid. Specifications obtainable from clerk.

SACRAMENTO, Cal.—Moeller Auto Co., Sacramento, at \$681 awarded contract by city council to furnish station wagon, and at \$593 to furnish one coupe automobile from City Engineering Department.

WANTED

TO PURCHASE used Linn Tractor Truck. Lidal-Wiley, Inc., 208 Columbia St., Seattle Washington.

SAN JOSE, Santa Clara Co., Cal.—Until February 2, 10 A. M., bids will be received by Henry A. Pfister, county clerk, for the purchase of a 60-Best Caterpillar Tractor, no longer required by the county. Further information obtainable from county clerk or Robt. Chandler, county surveyor.

OAKLAND, Cal.—Hap Alzina, 217 12th St., Oakland, at \$2700 awarded contract by city council to furnish six 4-cylinder motorcycles for traffic unit of the Police Department.

TOLEDO, Oregon—Until February 2, 8 P. M., bids will be received by C. S. Welborn, city clerk, to construct 15-inch suction dredge for Port of Toledo; engineer's estimate \$45,000. Specifications obtainable from city clerk on deposit of \$25, returnable.

WASHINGTON, D. C.—See "Government Work and Supplies," this issue. Bids wanted for miscellaneous supplies and equipment for Pacific Coast Navy Yards and Stations.

SACRAMENTO, Cal.—Until Jan. 29, 2 P. M., bids will be received by D. H. Greeley, Superintendent of Equipment, Shop No. 3, State Highway Commission, 1802 1/2 St., Sacramento for the purchase of the following equipment no longer required:

CHC 2295 Indiana 1 1/2-ton truck.
CHC 2618 Ford Express Model A.
CHC 2670 Ford Express Model A.
CHC 142-150 Gallon Alco Kettle, asph.
CHC 143-150 Gal. Alco Kettle, asph.
CHC 180-7 1/2 McCormick-Deering 10-20 Tractor and Spearwells Grader attachment.

Bidders may make offers for one or more items, but must state price offered for each item. No lump sum bids will be considered.

All equipment may be inspected at the Division of Highways yards at 1852 34th St., Sacramento.

RAILROADS

LAS VEGAS, Nevada—(By Special Wire)—Lewis Const. Co., 300 S. Junnita St., Los Angeles, at \$455,509.50,

submitted the lowest of 12 bids to the U. S. Bureau of Reclamation, Las Vegas, for the construction of a railway from Boulder City to the Hoover Dam site. This work will involve construction of 10.5 miles of railroad construction with heavy construction in solid rock formation, including five tunnels within one mile. The project will extend from the summit of the end of the L. A. & Salt Lake Ry. section, down to the dam site. The principal items and quantities follow:

115,000 cu. yds. common excav.; 364,000 cu. yds. rock excav.; 15,000 cu. yds. unclass. borrow; 802,000 sta. yds. overhaul; 257,000 cu. yds. long haul unclass. borrow "loaded into hauling equipment"; 705,000 yd. m. haul and spread "long haul unclass. borrow"; 29,000 cu. yds. tunnel excav.; 500,000 ft. b. m. permanent tunnel timbering; 800 cu. yds. struc. excav. common; 1,200 cu. yds. struc. excav. rock; 6,000 cu. yds. rock fill; 220 cu. yds. concrete; 16,000 lbs. reinf. steel; 2,100 cu. yds. rock riprap; 2500 cu. yds. concrete crib wall; 1600 ft. 24-in. corr. pipe; 120 lin. ft. 30-in. do; 180 lin. ft. 36-in. do; 250 lin. ft. 42-in. do; 200 lin. 48-in. do; 600 lin. ft. 60-in. do; 20,000 ft. b. m. bridges or trestle timbering; 200 lbs. rail stringers in rail top trestle; 2,000 lin. ft. piling; 80 pile point shoes; 22,800 cu. yds. ballasting; 7 miles laying track (tie plated); 10 miles laying track (not tie plated). J. C. Page is office engineer at Las Vegas, S. O. Harper, acting chief engineer, Denver.

FIRE ALARM SYSTEMS

SANTA ROSA, Sonoma Co., Cal.—City Manager C. O. Dunbar recommends early extension of the municipal fire alarm system.

FIRE EQUIPMENT

NAPA, Napa Co., Calif.—American La France and Foamite Industries, at \$15,100 awarded contract by city council to furnish motor fire truck with the following equipment:

Complete set of ladders: one 50-ft., one 35-ft., one 28-ft., two 26-ft., one 24-ft., one 20-ft., one 16-ft. roof ladder and one 12-ft. roof ladder. It will have a pump throw 750 gallons of water at 120 lbs. pressure as well as a booster tank of 100-gallon capacity. Will be equipped with a life-saving net, a life-saving gun and 700 feet of 2-in. hose. Allowance of \$200 on the old Seagraves chemical truck.

PITTSBURG, Contra Costa Co., Cal.—City Manager George Oiler authorized by city council to purchase 500 ft. of fire hose at a cost of \$500.

HAWTHORNE, Nevada—Until January 27, 10 A. M., bids will be received by the Bureau of Supplies and Accounts, Navy Department, Wash-

ington, D. C., to furnish one motor ambulance for Naval Ammunition Depot at Hawthorne, Nev. Specifications obtainable from above office or from Navy Purchasing Office, 100 Harrison St., San Francisco.

RESERVOIRS AND DAMS

SHASTA and Fresno Counties, Cal.—Immediate construction of an \$85,000,000 dam and reservoir at Kennett, on the Sacramento River, and a \$50,000,000 dam and reservoir, with lateral canals at Friant, Fresno County, on the San Joaquin River, has been recommended by the Joint Hoover-Young water resource commission.

A definite recommendation against construction of a salt water barrier across Carquinez Strait was made by the commission, which held that the Kennett dam and reservoir not only would satisfactorily solve the delta salinity problem and furnish fresh water for Suisun Bay industries, but also would be of material assistance in controlling Sacramento river floods. The Kennett dam also would help navigation and irrigation.

The commission further recommended that the federal government finance and construct both projects, with the state taking over their operation after guaranteeing payment of interest at 3 1/2 per cent or less, and repayment of the \$135,000,000 principal over a period of fifty years. An agreed-upon federal government contribution for improvement of navigation and flood control on the Sacramento River would be deducted. The state in turn would look to those sections benefited by the project, either directly or indirectly, for its reimbursement.

The state also would be expected to meet the cost of relocating state highways, made necessary by the construction of the two reservoirs.

HAYWARD, Alameda Co., Cal.—City Engineer Jesse B. Holly is making surveys for proposed emergency reservoir in connection with the municipal water system. Will be constructed in upper D street.

SAN DIEGO, Cal.—H. N. Savage, city hydraulic engineer, inspected by the city council to prepare plans for a dam at El Capitán site on the San Diego River. Plans were ordered for two types of dams, viz. gravity-arch type and a rock fill structure.

YAKIMA, Wash.—U. S. Bureau of Reclamation, Yakima, preparing plans for proposed Cle Elum Dam, the last unit of the Yakima reclamation project. For this unit \$15,500,000 is available. Dam will be constructed on the Cle Elum river near Ellensburg and will be 125-ft. high and 700-ft. long. It will form a reservoir of 4,680 acres in which will be stored 435,000 acre-feet of water.

CONTRACTORS' MACHINE WORKS

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PIPE LINES, WELLS, ETC.

OAKLAND, Cal.—Until January 19, 4:30 P. M., bids will be received by G. B. Hegardt, secretary, City Port Commission, 424 Oakland Bank Bldg., to furnish used steel pontoon pipe, equipped with ball joints, delivered Outer Harbor. Certified check 10% required with bid. Specifications obtainable from secretary.

LOS ANGELES, Cal.—Western Pipe & Steel Co., 5717 Santa Fe Ave., awarded contract by city purchasing agent, at prices below for welded steel pipe under Specifications No. 2286. Bids were taken on the following items:

- (1) 1560 ft. laying length, 51-in. welded steel pipe;
- (2) 1560 ft. laying length, 51-in. welded steel pipe, double dipped in McEverlast steel water pipe coating;
- (3) 1560 ft. laying length, 51-in. welded steel pipe with not more than two girth seams and only one longitudinal seam;
- (4) 1560 ft. laying length, 51-in. welded steel pipe identical with Proposal No. 3, except that the dipping shall comply with Proposal No. 2.

The prices are: Electric welded — (1) \$6.55 (2) \$8.35, (3) \$7.85, (4) \$6.85; net. Delivery start Feb. 2, complete Feb. 12.

CARMICHAEL, Sacramento County Cal.—Western Pipe and Steel Co., 444 Market St., San Francisco, at \$41 lin. ft. awarded contract by Carmichael Irrigation District to furnish and deliver f.o.b. Fairroaks, Sacramento Co., 4,300 ft. of welded steel pipe. Complete list of bids follows:

Western Pipe & Steel Co.,	\$41
Corrugated Pipe Co., S. F.,	423
Crane Co., Sacramento,	51 1/2

SEWERS AND SEWAGE DISPOSAL PLANTS

OAKLAND, Cal.—Until January 12, 12 noon, bids will be received by C. F. Merrill, city clerk, to construct storm sewer with appurtenances in Grove St. bet. 26th and 28th Sts.; est. cost \$17500. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

HILLSBOROUGH, San Mateo Co., Cal.—Town Clerk John A. Hoey instructed to advertise for bids for construction of storm sewers and other miscellaneous improvements in the Brewer Drainage District.

GONZALES, Monterey Co., Calif.—Gonzales Sanitary District votes bonds of \$40,000 to finance construction of a sewer system. Directors of the district are: Enoc DeCastro, William Tavernetti, Bert M. Carner, M. H. Woodsworth and J. A. Morrill.

OAKLAND, Cal. — Robert E. McNair, 3745 Rhoda St., Oakland, at \$8656 awarded contract by city council to construct drainage structures in portions of E-8th and E-10th Sts. 4th, 5th and 8th Aves., involving:

- 375 ft. 10-in. pipe conduit, \$145.
- 552 ft. 12-in. do., \$135.
- 536 ft. 15-in. do., \$155
- 329 ft. 18-in. do., \$220.
- 320 ft. 24-in. do., \$330.
- 300 ft. 18-in. storm sewer, \$155
- 389 ft. 18-in. do., \$220.
- 6 manholes, standard tops, \$70.
- 4 manholes, inlet top, 34-in., \$85.
- 4 catchbasins, 34-in., \$66.
- 2 catchbasins, 21-in., \$56.
- 4 storm water inlets, 34-in., \$41
- 5 storm water inlets, 21-in., \$34.50.

Complete list of unit bids received published in issue of January 2.

SANTA MONICA, Cal.—Until Jan. 20, bids will be received by city council to dig trench, lay and connect 7,000 lin. ft. 30-in. sand cast iron pipe, together with one 30-in. by 20-in. reducer, gate valves, valve boxes and covers, fill trench and replace pavement in Sawtelle Blvd. Certified check 5% required with bid. Plans obtainable from John A. Morton, city commissioner of public works.

OAKLAND, Cal.—R. H. Downer, 709 East 24th Street, Oakland, at \$2,605 awarded contract by city council to sewer portions of Foothill Blvd., Ir. Dowling and Blanche Sts., and 84th Ave., involving:

- 235 lin. ft. 24-in. pipe sewer, \$3.76;
- 606 lin. ft. 8-in. pipe sewer, \$1.80;
- 6 manholes, \$75.00.

Complete list of unit bids received published January 2.

SANTA MARIA, Santa Barbara Co., Cal.—The city engineer is preparing plans for extensions to the city sewer system on Broadway to serve 200 additional families. The estimated cost is \$25,000.

OAKLAND, Cal.—Proceedings will be started at once by city council to construct storm sewer in Grove St., bet. 26th and 28th Sts.; estimated cost \$8900 and to sewer portions of Mountain Blvd., Greenly Dr. and 15 small streets in the Melrose Highlands and Melrose Highlands Extensions Tracts. Walter N. Frickstad, city engineer.

WATER WORKS

GRIDLEY, Butte Co., Cal.—Worthington Co., 503 Howard St., S. F., at \$10,648 for 100-h. p. and \$11,898 for 125-h. p., submitted low bid to city council to furnish one Diesel engine generating unit with auxiliary pumps, motors, equipment and materials. Complete list of bids, taken under advisement, until January 19, follows:

Worthington Co., 100-h-p.,	\$10,648.
125-h. p.,	\$11,898.
Fairbanks-Morse Co., S. F.,	\$15,823.
U. S. Machinery Co., S. F.,	\$17,519.

MERCED, Merced Co., Calif.—City council has started proceedings to purchase privately owned water system of the Crocker-Huffman Land & Water Co., to operate as a municipal project. W. T. Clough, city clerk.

ST. HELENA, Napa Co., Cal.—Pacific States C. I. Pipe Co., 111 Sutter St., San Francisco, at \$38 ft. (\$1520) awarded contract by city trustees to furnish 4000 ft. 150 Class 150, B and S McWane Pacific c. i. pipe and fittings. U. S. Pipe & Foundry Co., San Francisco, only other bidder at \$39 1/2 (\$1580).

EUREKA, Humboldt Co., Cal.—A. C. Johnson, Eureka, at \$6894 awarded

contract by city council to tear down old water tank at Harris and E Sts and construct new 520,000-gallon tank on the same site. Halsby & Lax, Eureka, bid \$6896 and Mercer-Fraser Co. Eureka \$11,587.

MONROVIA, Los Angeles Co., Cal.—Pacific Pump Works awarded contract by the city council at \$1620 net, for one 1400 G. P. M. centrifugal booster pump and one 150-hp. motor.

INGLEWOOD, Los Angeles Co., Cal.—National Cast Iron Pipe Co., 417 S. Hill St., Los Angeles, awarded contract by city council at prices shown for furnishing cast iron water pipe as follows:

- (1) 5000 ft. 4-in., 44.7c.
- (2) 2600 ft. 6-in., 63.8c.
- (3) 1000 ft. 8-in., 91.4c.
- (4) 1000 ft. 10-in., \$1.23.

ONTARIO, San Bernardino Co., Cal.—L. A. Manufacturing Co., 2500 E. 23rd St., Los Angeles, submitted low bid to the city council at \$2592.67 to furnish and lay 2600 lin. ft. 12-in. welded steel pipe and fittings. West Coast Pipe & Steel Co. bid \$2918.27. Bids taken under advisement.

DENVER, Colo.—Until January 26 bids will be received by the U. S. Bureau of Reclamation, Denver, for furnishing pumping equipment for the water supply system for Boulder City.

ONTARIO, San Bernardino Co., Cal.—Call for bids for a centrifugal booster pump at Pumping Plant No. 6, scheduled for opening Jan. 5, was withdrawn by the city council.

GLENDALE, Los Angeles Co., Cal.—Until 10 A. M., Jan. 22, bids will be received by the city council for furnishing f.o.b. Glendale, the following:

- Item 1—Six 30-in. hub end, vertical valves with spur gears.
- Item 2—One 24-in. hub end, vertical valve with spur gears.
- Item 3—Four 30-in. flanger, vertical valves with spur gears. Flanges to be faced and drilled for twenty-eight 1 1/4 in. bolts on 36-in. bolt circle.
- Item 4—Two 20-in. flanged, vertical valves with spur gears. Flanges to be faced and drilled for twenty 1 1/4-in. bolts on 25-in. bolt circle.
- Item 5—Two 24-in. hub end check valves.

All above valves to be suitable for operation on 50 lbs. pressure. Items 1 to 4, inclusive, to have double discs and to open by turning nut counter clockwise. Bidders to furnish name of manufacturer, delivery date and specifications of valves they propose to furnish, including total net weight of valve and diameter of operating stem. Cert. check 10%. G. E. Chapman, city clerk.

SANTA CRUZ, Santa Cruz Co., Cal.—U. S. Pipe and Foundry Co., Monadnock Bldg., San Francisco, at \$3.50

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ft. awarded contract by city council to furnish 7700 lin. ft. 20-in. pipe in connection with new main from the Crossing Street Pumping Plant to the Bay Street Reservoir.

LAFAYETTE, Contra Costa Co., Cal.—Petitions are in circulating seeking formation of County Water Works District No. 2 which proposes to finance construction of a domestic water distributing system to connect up with the mains of the East Bay Municipal Utility District. Col. M. M. Garrett, chairman of the water committee of the Lafayette Improvement Club, is a prime mover for organization of the district.

SAUSALITO, Marin Co., Cal.—City council will confer with directors of the Marin Municipal Water District with a view to providing additional water supply for the "higher parts" of the city not now adequately served.

PORTLAND, Ore.—Following contracts awarded by City Purchasing Agent Coffinberry to furnish pipe for Municipal Water Bureau:

R. D. Wood & Co., at \$47,511.95 for 9612 ft. of 6-in. pipe, 11,328 ft. of 12-in. and 610 ft. of 24-in. American Cast Iron Pipe Co., at \$3075 for 75 tons 20-in. U. S. Cast Iron Pipe & Foundry Co. at \$48,676.80 for 20,208 ft. 8-in., 750

MADERA, Madera Co., Cal.—Until February 2, 8 P. M., bids will be received by Jas. Wakefield, city clerk, to furnish and deliver pipe and fittings, as follows:

- 3,500 ft. 6-in. c. i. pipe, 150 lbs. working pressure;
- 8 6x6x6x6 bell and end crosses;
- 1 8x6x6x6 bell end cross;
- 4 6x6x6 bell end tees;
- 14 6x4 reducers, 6-in. spigot, 4-in. bell;
- 4 6-inch plugs;
- jointing material for 260 6-inch joints.

Alternate bids will be received on McVane pre-cast cast iron pipe and fittings. Certified check 10% payable to city required with bid.

VANCOUVER, B. C.—Until Feb. 3, 2 P. M., bids will be received by W. A. Sheppard, city purchasing agent, to furnish and deliver 65,000 ft. 6-in. and 8-in. c. i. pipe, as follows:

- 30,000 ft. 6-in. Class C;
- 10,000 ft. 6-in. Class D;
- 15,000 ft. 8-in. Class C;
- 10,000 ft. 8-in. Class D.

Certified check 5% required with bid. Specifications obtainable from the city engineer. 5

DENVER, Colo.—Until 2 P. M., Jan. 28, bids will be received by the Chief Engineer, Bureau of Reclamation, Denver, for furnishing pumps as follows:

- Three motor-driven deep well turbine pumps, each having a discharge capacity of 550 G. P. M. when operating under a total effective head of 110 ft.
- Six horizontal motor-driven centrifugal pumps, each having a discharge capacity of 450 G. P. M. when operating under a total effective head of 1300 ft.
- Three motor-driven horizontal centrifugal pumps, each having a capacity of 500 G. P. M. when operating under a total effective head of 170 ft.

Spec. may be obtained from the chief engineer, 1441 Welton St., Denver. Proposal guaranty, 10%.

PLAYGROUNDS & PARKS

SAN MATEO, San Mateo Co., Cal.—Until February 5, 4 P. M., bids will be received by John D. Bromfield, clerk, San Mateo High School District, for planting material for high

school grounds. Specifications obtainable from the Superintendent of Schools at San Mateo.

STREETS AND HIGHWAYS

PACIFIC GROVE, Monterey Co., Cal.—Until February 5, 7:30 P. M., bids will be received by Elgin C. Hurlbert, city clerk, (3305) to improve Fifth St. bet. Ocean View and Lighthouse Aves., and Cypress Ave. and Granite St. bet. Lighthouse Ave. and Laurel Ave., and bet. Laurel Ave. and Pine Ave., involving cem. conc. curbs and gutters; oil macadam surface pavement (composed of graded rock emulsified asphalt; cem. conc. driveways; 4-in. vit. clay lateral sewers. 1911 Act. Bond Act 1915.

Certified check 10% payable to city required with bid. Plans on file in office of clerk.

SANTA BARBARA, Calif.—County Surveyor Owen H. O'Neill completing plans for last section of San Julian Road known as second half of Section No. 2. It is approx. three miles in length and will have a graded and graveled surface. Bids will be called probably within 30 days.

BELL, Los Angeles Co., Cal.—Until 8:30 P. M., Feb. 2 (tentative date), bids will be received by city council for improving Mayflower Ave., between Baker and Florence Aves., and other streets, under A. & J. No. 3, involving:

- (1) 47,950 sq. ft. walk;
- (2) 12,048 ft. curb;
- (3) 181,430 sq. ft. oiled macadam and D. G. sub-base;
- (4) 297,673 sq. ft. grading;
- (5) 4436 ft. 8-in. vit. sewers;
- (6) 18 manholes and other structures;
- (7) 4418 ft. 6-in. vit. sewers.

The contractor will be required to purchase the \$50,000 immediate possession bonds. Check or bond, 10%. Tracy Bousman is the city engineer

SANTA BARBARA, Cal.—City Engineer E. B. Brown, has announced that projects for which bids will be called in the near future, include the following:

- Path Street paving bet. Puinto and Alhambra Ave., two blocks of paving, \$5602.
- Canon Peridido paving, seven blocks paving and sidewalks, \$53,000.
- Westside, Mission, Chino, Gillespie and Robins St., 21 blocks, \$110,000, \$3400.
- Por la Mar Drive, paving one block, \$3400.
- Nopal St. paving, Figueroa to Canon Peridido, \$9000. 22

SAN JOSE, Santa Clara Co., Cal.—City Engineer Wm. Fopp making surveys to grade and pave all unimproved streets within the city limits. Estimates of cost will be submitted to the council within one week.

PALO ALTO, Santa Clara Co., Cal.—Irving L. Ryder, San Carlos and Dupont Sts., San Jose, at \$19,441.50 was awarded contract by city council (333) to improve High St. bet. Lytton Ave. and Addison Street, involving vit. san. sewers, cem. conc. gutters, driveways, curbs and walks, catchbasins, conc. storm sewer pipe, electrolier system, resurface roadway with asphalt concrete. Complete list of bids as follows:

Irving L. Ryder	.....\$19,441
Freeman and Cavanaugh	..... 20,210
W. A. Dontanville, Sallinas	..... 24,626
Ferrioli and Bettini	..... 25,630
M. Hanrahan, S. F.	..... 26,793

SACRAMENTO, Cal.—County Supervisors petitioned to improve Spear

and Sproule Aves., just outside the Sacramento city limits, between 12th and 16th Sts. Referred to County Engineer Chas. Detearing for report.

RICHMOND, Contra Costa Co., Cal.—City Engineer E. A. Hoffman instructed to prepare plans to pave east half of Tenth St. from Dock Street to street at Ford Plant site. The section between Cutting Blvd. and Dock St. will remain unpaved until sewer mains are installed.

MENLO PARK, San Mateo Co., Cal.—Clyde W. Wood, P. O. Box 1445, Stockton, at \$90,926.81 submitted low bid to town trustees (30-3) to improve College Ave. and Cambridge Ave. from Arbor Road to El Camino Real; Harvard Ave. bet. University Drive and El Camino Real; University Drive from Middle Ave. to Stanford Ave.; Yale Road bet. Middle Ave. and Stanford Ave.; Princeton Road bet. College and Stanford Ave., including all street intersections. Project involves:

30,000 cu. yds. grading; 670,400 sq. ft. 1½-inch emulsified asphalt sur. base, on 6-inch macadam base;

- 32,000 lin. ft. concrete curb;
 - 220 water service connections, curbs, storm drains, catchbasins, man holes, etc. Complete list of following will be published shortly. Unpublished is complete list of the lump sum bids received:
- | | |
|---|----------------|
| C. W. Wood, Stockton |\$ 90,926 |
| L. L. Ryder, San Jose | 94,803 |
| Union Paving Co., S. F. | 97,303 |
| A. J. Raibach, S. F. | 97,551 |
| W. J. Doughty, Salinas | 99,435 |
| A. Teichert & Son, Sacto. | 101,100 |
| M. F. Hanrahan, S. F. | 102,987 |
| Valley Paving & Const. Co., Visalia | 104,730 |
| Jack Hester, Hayward | 106,963 |
| W. O. Tyson, Redwood City | 108,728 |
| Clark & Henry Const. Co., San Francisco | 112,793 |

SANTA BARBARA, Calif.—McCormick estate proposes installing a new water system at River Rock, Montecito, to cost about \$100,000.

HILLSBOROUGH, San Mateo Co., Cal.—Union Paving Co., Call Bldg., San Francisco at \$23,142.50 awarded contract by town trustees to pave streets in Brewer Tract No. 3.

STOCKTON, San Joaquin Co., Cal.—Until January 25, 11 A. M., bids will be received by Eugene D. Graham, county clerk, to pave W. C. Miller road, 0.89 mile in length. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from Julius Manthey, county surveyor.

SONORA, Tuolumne Co., Cal.—Mo desto and Turlock Irrigation Districts petition county supervisors to secure rights-of-way for a road to connect Don Pedro Dam with the Gravity Reservoir; will be approximately 3 miles long.

SAN FRANCISCO.—Until January 21, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Duncan St. bet. Douglas St. and Hoffman Ave., involving armored concrete curbs, side sewers, 1½-inch asphaltic concrete wearing surface and 6-in. class F. concrete base. Certified check of 10% required with bid, payable to Clerk of the Supervisors.

Bids on this work were originally scheduled for opening on January 7, but because a quorum of the Board of Public Works, the bids were returned unopened. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall. 26

SANTA ROSA, Sonoma Co., Cal.—City Manager C. O. Dunbar recommends an extensive street paving program. Approximately 7½ miles of the city's streets are unpaved.

SAN FRANCISCO.—Until January 21, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works to improve Bradford St. at Cortland and Powhattan Aves., involving side sewers, 6-in. concrete class E pavement. Certified check of 10% required, payable to Clerk of the Supervisors.

Bids on this work were originally scheduled for opening on January 7 but lacking a quorum of the Board of Public Works, the bids were returned unopened. Plans obtainable from Bureau of Engineering, 2d floor, City Hall.

STOCKTON, San Joaquin Co., Cal.—Until January 26, 11 A. M., bids will be received by Eugene D. Graham, county clerk, to shape, roadbed and cross section and construct pavement in Harney Lane in Road District No. 2; oil macadam pavement; estimated cost \$20,000. Certified check 10% payable to Chairman of the Boards of Supervisors required with bid Plans obtainable from Julius Manthey, county surveyor.

SAN FRANCISCO.—Until January 21, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works to improve Cambell Ave. bet. Alpha and Rutland Sts., involving armored concrete curbs, 2-course concrete sidewalks, vit. clay pipe side sewers, asphaltic concrete pavement. Certified check of 10% required, payable to clerk of the Supervisors.

Bids on this work were originally scheduled for opening on January 7, but lacking a quorum of the Board of Public Works, the bids were returned unopened. Plans obtainable from Bureau of Engineering, 2d floor, City Hall.

LAS VEGAS, Nev.—General Const. Co., Colman Bldg., Seattle, at \$229,917 for 16-ft. roadway and \$394,257 for 30-ft. roadway submitted low bid to U. S. Bureau of Reclamation, Las Vegas, Nev., for construction of a highway, approximately 7 miles long, from the vicinity of Boulder City to the Hoover Dam Site, Boulder Canyon Project, Arizona-California-Nevada. The work is located about 25 to 20 miles southeast of Las Vegas, which town is on the main line of the Los Angeles and Salt Lake (U. P.) Railway. The principal items are:

418,720 cu. yds. open cut excav. (all classes); 6000 cu. yds. tunnel excav.; 249,000 cu. yds. overhaul; 2000 cu. yds. back fill; 160 cu. yds. concrete; 5000 cu. yds. concrete crib walls; 100,000 cu. yds. dry rock paving (placing); 8000 lbs. reinf. bars (placing); 20 M. ft. b.m. erecting permanent tunnel timbering; 45 M. ft. b.m. erecting timber in bridge; 450 ft. 18-in. to 72-in. corr. metal pipe (laying); 29,000 cu. yds. gravel surface (furnish and place); 147,000 sq. ft. oil treating surface; 27,000 lin. ft. guard rail.

This call for bids does not cover the purchase of materials which are to be furnished by the government.

SAN ANSELMO, Maricopa Co., Cal.—Town trustees declare intention (\$96) to improve Essex St., involving grading, hyd. cem. conc. curbs, gutters and headwall, hyd. cem. conc. pave., vit. pipe sewers with wye branches and laterals, vit. pipe lampholes. 1911 Act. Hearing Feb. 2, P. D. Burrows, city clerk.

SONORA, Tuolumne Co., Cal.—City council plans extensive street improvement program during current year, involving grading, rock and gravel filling. Work will be financed from General Fund.

KING CITY, Monterey Co., Cal.—W. A. Dontanville, at \$9,096.72 awarded contract by city council to improve portions of Mildred Ave., involving grading, hyd. cem. conc. curbs, 5-in. hyd. cem. conc. pave. Complete list of bids follows:
W. A. Dontanville.....\$ 9,096
Granite Const. Co..... 9,744
A. J. Baisch..... 10,176
J. L. Connor..... 10,290
Engineer's estimate..... 8,880
Project involves 43,171 sq. ft. grading and paving and 1693 lin. ft. curbs.

SAN FRANCISCO.—Bureau of Engineering, Department of Public Works, 2d floor, City Hall, completes specifications to improve crossing of Allison and Hanover Sts. Est. cost \$1600, involving:

- (a) 94 lin. ft. armored conc. curb;
- (b) 660 sq. ft. 1-course conc. sidewalks;
- (c) 4 brick catchbasins;
- (d) 75 lin. ft. 10-in. V.C.P. culvert;
- (e) 2,394 sq. ft. asph. conc. pavement, consisting of 2-in. asphalt concrete surface on 6-in. class "F" concrete base.

PACIFIC GROVE, Monterey Co., Cal.—City council declares intention (3227) to improve Laurel Ave. bet. Congress Ave. and Willow St., and bet. Willow St. and Alder St., involving cem. conc. curbs and gutters; oil macadam surface pavement, to be composed of graded rock not less than 13 lbs. per sq. ft. and Dur-Emulse emulsified asphalt, not less than 1-gal. per sq. yd.; two conc. catchbasins; cem. conc. driveways, 1911 Act. Bond Act 1915. E. C. Hurlbert, city clerk.

PACIFIC GROVE, Monterey Co., Cal.—Until February 5, 7:30 P. M., bids will be received by Elgin C. Hurlbert, city clerk, (3208) to improve Grand Ave. bet. Ocean View Avenue and Park Place, involving cem. conc. curbs, oil macadam surface pavement (composed of graded rock not less than 13 lbs. to sq. ft.) and Duremulse emulsified asphalt; cem. conc. driveways, 4-in. vit. clay lateral sewers. 1911 Act. Bond Act 1915.

Certified check 10% payable to city required with bid. Plans on file in office of clerk.

UNIT BID LISTING ON SANTA CRUZ COUNTY BRIDGE PROJECT

SANTA CRUZ, Santa Cruz Co., Cal.—As previously reported, Frank Bryant, 2911 23rd St., San Francisco, at \$28,804.72 submitted low bid to the county supervisors to construct a timber bridge with reinforced concrete floor over the Southern Pacific tracks near Felton Station, Zayante Creek and Zayante Road in San Lorenzo Road District.

C. C. Gildersleeve, 1508 G St., Napa, at \$32,989 submitted low bid for steel bridge with reinforced concrete floor.

Following is a complete list of the unit bids received:

TIMBER CONSTRUCTION

- (a) 690 cu. yds. excavation;
- (b) 170 cu. yds. "B" concrete (footings and abutments);
- (c) 40 cu. yds. "A" concrete (bent);
- (d) 236 cu. yds. "A" concrete (floor paving);
- (e) 31,000 lbs. reinforcing steel;
- (f) 240,000 lb. redwood timber.

	(a)	(b)	(c)	(d)	(e)	(f)
Frank Bryant, San Francisco.....	\$2.00	\$17.00	\$19.80	\$14.52	\$0.36	\$80.00
M. B. McGowan, San Francisco.....	1.00	10.50	18.50	15.00	.05	87.90
C. C. Gildersleeve, Napa.....	2.00	16.00	18.00	11.50	.04	86.00
Lord & Bishop, Sacramento.....	1.00	22.00	24.00	14.00	.045	84.00
Leo Cardwell, Santa Cruz.....	1.50	16.25	20.90	13.08	.0461	92.60

STEEL CONSTRUCTION

- (a) 456 cu. yds. excavation;
- (b) 226 tons struc. steel (ump sum);
- (c) 365 cu. yds. concrete "A" floor (1) 48,000 lbs. reinforcing steel; (2) 16,000 ft. redwood timber.
- (d) 22 cu. yds. "A" concrete (bent);
- (e) 21 cu. yds. "B" conc. (footings);
- (f) 16,000 ft. redwood timber.

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
C. C. Gildersleeve.....	\$2.00	\$19,420	\$17.00	\$20.00	\$16.00	\$.042	\$100.00
Frank Bryant.....	2.00	20,300	17.02	13.80	17.00	.04	84.00
M. B. McGowan.....	1.00	21,741	15.00	20.00	12.00	.05	120.00
Lord & Bishop.....	1.00	21,050	16.00	24.00	22.00	.045	90.00
Leo Cardwell.....	1.50	21,367	18.86	20.88	16.29	.046	100.00

BIDS OPENED FOR PIPE FITTINGS

LOS ANGELES, Cal.—Following bids received by Thomas Oughton, city purchasing agent, under Specification No. 2297, to furnish galvanized hydraulic, banded type, fittings, have been taken under advisement, (all bidders of Los Angeles):

- (1) 10,000 only, 1-in. galvanized malleable iron elbows, banded type;
- (2) 1,000 only, 1½-in. galv. malleable do;
- (3) 5,000 only, 2-in. galvanized malleable do;
- (4) 1,000 only, 1½-in. galv. malleable iron tees, banded type;
- (5) 5,000 only, 2-in. galvanized malleable do.

	(1)	(2)	(3)	(4)	(5)	Totals
Callf. Pipe & Supply Co.....	\$14.55	\$29.19	\$29.19	\$45.85	\$58.30	\$7097.70
Hickey Pipe & Supply Co.....	13.22	26.44	44.07	40.77	49.50	6677.10
M. O. Halldeman Corp.....	14.55	29.19	29.19	41.70	58.30	7038.49
Petroleum Equip. Co.....	14.55	29.19	29.19	45.85	58.30	7079.30
Crane Company.....	19.25	34.05	44.25	51.00	66.30	6534.00
Ducommun Corp.....	19.35	34.25	44.44	50.86	66.08	8312.10
Griffith Pipe & Supply Co.....	13.14	26.30	42.85	40.55	49.32	6641.50
Santa Fe Pipe & Sup. Co.....	13.25	26.50	44.44	50.86	66.08	6754.00
Pacific Pipe & Sup. Co.....	13.25	26.50	44.44	50.86	66.08	8312.10
Fitzpatrick & Locke.....	19.25	34.25	44.44	50.86	66.08	8312.10

Contracts Awarded Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
29	Hapola	Owner	4000
30	Michael	Owner	5000
31	Globe	Ballet	8000
32	Keeley	Owner	3000
33	Mirsky	Standard	3500
34	Schroeder	Mangels	4000
35	Weber	Cobby	4000
35	Ran	Owner	6000
36	Castle	Owner	3000
37	Nylund	Owner	3750
38	Laguens	Owner	8000
39	Caro	Cox	12500
40	S F Theatre	Salih	2000
41	Morris	Owner	9000
42	Christensen	Owner	4000
43	Anderson	Owner	27000
44	Rainier	Villadsen	5000
45	Hoern	Owner	3200
46	Tofanelli	Folliotti	1500
47	Ferwick	Owner	6000
48	Galli	Owner	1000
48	Laguens	Owner	5000
45	McCleave	Owner	4500
46	Coliseum	Brumfield	4845
47	Hallgren	Owner	4000

DWELLING

(29) E 42nd AVE. 325 N Geary St.; one-story and basement frame dwelling.
Owner—J. Hapola, 376 4th Ave.
Plans by Owner. \$4000

DWELLING

(30) W 12th AVE. 193 S Santiago; one-story and basement frame dwelling.
Owners—J. Michael and C. Bomerer, 752 De Haro St.
Plans by Owners. \$5000

DWELLINGS

(31) W 32nd AVE. 350 S Quintara; two 1-story and basement frame dwellings.
Owner—Globe Securitles Co., 740 Hunter-Dulin Bldg.
Plans by Owner.
Contractor—F. P. Ballet, 8 10, 47th Avenue. each \$4000

DWELLING

(32) E DANTON 125 N Cayuga St.; one-story and basement frame dwelling.
Owner—J. Keeley, 4668 18th St.
Plans by Owner. \$3000

DWELLING

(33) W 27th AVE. 25 S Rivera; one-story and basement frame dwelling.
Owner—B. Mirsky & Son, Inc., 215 Castaneda.
Plans by Builder.
Contractor—Standard Bldg. Co., 218 Castaneda. \$3500

DWELLING

(34) NE DEMING Way and Uranus Terrace; one-story and basement frame dwelling.
Owner—W. S. Schroder, 407 41st Ave.
Architect—C. F. Strothoff, 2274 15th Street.
Contractor—H. C. Mangels, 1142 Maple St. \$4000

ALTERATIONS

(35) No. 650 SECOND ST. Alterations to offices.
Owner—C. F. Weber Co., Premises.
Architect—N. E. Norberg, 550 Market St., San Francisco.
Contractor—J. W. Cobby & Son, 260 Tehama St., San Francisco. \$4000

GARAGE

(35) 2616 THIRD ST.; one-story class C garage (public).
Owner—S. Ran, 234 5th St.
Plans by B. K. Dobkowitz, 425 Montecrey Blvd. \$6000

DWELLING

(36) NW 24th AVE. and Wawona; 1-story and basement frame dwelling.
Owner and Builder—Castle Bldg. Co., 830 Market St.
Architect—Not Given. \$3000

DWELLING

(37) E BAYSHORE BLVD. 325 N Thornton; 1-story and basement frame dwelling.
Owner and Builder—O. Nylund, 3900 Polson Street.
Architect—Not Given. \$3750

DWELLINGS

(38) W YORK 30 S 25th St.; two 2-story and basement frame dwellings.
Owner and Builders—Laguens & Plov, 2220 Mission St.
Architect—F. W. Dakin, 625 Market Street. each \$4000

APARTMENTS

(39) E 24th AVE. 275 N Irving St.; two-story and basement frame (4 apartments).
Owner—C. and J. Caro, 2763 Bush St.
Plans by Mr. Cox.
Contractor—L. H. Cox, 1950 Irving St. \$12,500

REPAIRS

(40) SE CLEMENT and 9th Ave., repair fire damage to theatre.
Owner—San Francisco Theatres, Inc., 25 Taylor St.
Architect—S. C. Lee, Los Angeles.
Contractor—Salih Bros., 25 Taylor St. \$2000

DWELLINGS

(41) W PINEHURST 72 N Kenwood; two 1-story and basement frame dwellings.
Owner and Builder—G. W. Morris, 95 Pinehurst Way.
Plans by D. E. Jaekle, Call Bldg. each \$4500

DWELLING

(42) E 22nd AVE. 260 N Judah St.; one-story and basement frame dwelling.
Owner—H. Christensen, 1422 27th Ave.
Plans by Owner. \$4900

APARTMENTS

(43) W 25th AVE. 100 N Fulton St.; three-story and basement frame (12) apts.

Owner—F. Anderson, 1320 22nd Ave.
Architect—Not Given. \$27,000

ALTERATIONS

(44) 1550 BRYANT ST.; alterations to lay concrete flooring.
Owner—Rainier Brewing Co., 1550 Bryant Street.
Plans by Owners.
Contractor—Villadsen Bros., Inc., 417 Market St. \$5000

DWELLING

(45) NE ROUSSEAU 175 NW Cayuga; 1-story and basement frame dwelling.
Owner—A. Hoern, 177 Highland Ave.
Architect—Not Given. \$3200

STORE

(46) 944 COLUMBUS Avenue; one-story and basement frame store.
Owner—S. Tofanelli.
Plans by Owner.
Contractor—R. Folliotti, 949 Filbert St. \$1350

DWELLINGS

(47) E DANTON 200 N Cayuga; two one-story and basement frame dwellings.
Owner and Builder—A. Berwick, 1525 Noe St.
Architect—Not Given. each \$3000

CONCRETE WALL

(48) E EIGHTH AVE., 100 N Noriega; reinforced concrete wall.
Owner—R. F. Galli, 1574 28th Ave.
Plans by Owner. \$1000

DWELLING

(44) NW PINEHURST 201 NE Kenwood; 1-story and basement frame dwelling.
Owner and Builders—Laguens & Larson, 959 Ashland Ave.
Plans by Owner. \$5000

DWELLING

(45) SE 41st AVE. and Clement St.; two-story and basement frame dwelling.
Owner—Mrs. E. R. McCleave, 1927 Sutter Street.
Architect—A. O. Johnson, 16 Turk St. \$4500

ALTERATIONS

(46) 745 CLEMENT ST.; remove old and install new marquee.
Owner—Coliseum Theatre, 745 Clement St.
Architect—Not Given.
Contractor—Brumfield Elec. Works, 965 Polson St. \$9483

DWELLING

(47) E 23rd AVE. 125 N Moraga; one-story and basement frame dwelling.
Owner and Builder—A. Hallgren, 1594 29th Avenue.
Plans by Owner. \$4000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
6	Regents	Moore	83805
7	Eureka	Mattock	34142
8	Same	Zelinsky	2012
9	Same	Sugarman	2290
10	Same	Pinkerton	2390
11	Same	Atlas	1280
12	McCarthy	Meyer	7200

13 Kavanagh	Atwood	720
14 Pollak	Atwood	920
15 Schroeder	Mangels	5018

EQUIPMENT

(6) SAN FRANCISCO Campus, University of California; installation of mechanical equipment in central heating plant.

Owner—Rectors of the University of California.

Architect—B. F. Raber.
Contractor—C. C. Moore & Co., Sheldon Bldg.

Filed Jan. 9, '31. Dated Jan. 5, '31.	
1st of every month.....	75%
Usual 35 days.....	25%

TOTAL COST, \$83,895
Bond, \$44,500. Sureties, U. S. Guarantee Co. Forfeit, \$50. Limit, 168 days. Plans and Spec. filed.

BUILDING

(7) N POST and E Scott E 62-6XN 57-6. General construction for building.

Owner—Eureka Benevolent Society.
Architect—S. L. Hyman and A. Appleton, 68 Post St., San Francisco.

Contractor—A. F. and C. W. Mattock, 212 Clara St., San Francisco.

Filed Jan. 10, '31. Dated Dec. 17, '30.	
On 5th of each month.....	75%
Usual 35 days.....	25%

TOTAL COST, \$34,142
Bond, \$36,142. Surety, Indemnity Insurance Co. Limit, 100 days. Forfeit, none. Plans and specifications filed.

NOTE—\$1000 extra for supervising and directing construction of building.

(8) PAINTING WORK ON ABOVE.
Contractor—D. Zelinsky Sons, Inc., 165 Grove St., San Francisco.

Filed Jan. 10, '31. Dated Jan. 10, '31.	
Payments same as above.....	100%

TOTAL COST, \$2012
Bond, \$2012. Surety Commercial Casualty Co. Limit, as fast as possible. Forfeit, none. Plans and specifications filed.

(9) PLUMBING WORK ON ABOVE.
Contractor—E. Sugarman, 3524 Geary St., San Francisco.

Filed Jan. 10, '31. Dated Jan. 10, '31.	
Roughed in.....	50%
Completed.....	25%
Usual 35 days.....	25%

TOTAL COST, \$2900
Bond, \$1100. Surety, National Surety Co. Limit, 60 days. Forfeit, none. Plans and specifications filed.

(10) HEATING WORK ON ABOVE
Contractor—Jas. H. Pinkerton Co., 927 Howard St., San Francisco.

Filed Jan. 10, '31. Dated Jan. 10, '31.	
Payments same as above.....	100%

TOTAL COST, \$2390
Bond, \$2390. Surety, American Bonding Co. Limit, as fast as possible. Forfeit, none. Plans and specifications filed.

(11) ELECTRIC WORK ON ABOVE.
Contractor—Atlas Elec. & Engr. Co., 342 4th St., San Francisco.

Filed Jan. 10, '31. Dated Jan. 10, '31.	
Payments same as above.....	100%

TOTAL COST, \$1380
Bond, \$1380. Surety, American Bonding Co. Limit, 60 days. Forfeit, none. Plans and specifications filed.

DWELLINGS

(12) LOTS 46 AND 47 BLK 2947-A
Map Sub. 7, Miraloma Park. All work for two one-story frame dwellings.

Owner—The McCarthy Co., 46 Kearny St., San Francisco.

Architect—Not Given.
Contractor—Meyer Bros., 727 Portola Drive, San Francisco.

Filed Jan. 15, '31. Dated Dec. 18, '30.	
Side and roof sheathing.....	\$2900
Brown coated.....	1800
Completed and accepted.....	1800

Usual 35 days..... 1800

TOTAL COST, \$7200
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

POILER, ETC.

(13) E RETIRO WAY 50 N Beach St.; boiler, radiators and valves, and pipe fittings.

Owner—D. S. Kavanagh.
Architect—Not Given.
Contractor—A. G. Atwood, 3623 18th Avenue.

Filed Jan. 13, '31. Dated Dec. 8, '30.	
Payments not given.....	100%

TOTAL COST, \$720.

BOILER, ETC.

(14) 496 GROVE STREET; gas boiler, breeches, radiators and valves, electric clock, terra cotta flue, etc.

Owner—Mr. Polak.
Architect—None.
Contractor—A. G. Atwood, 3623 18th Avenue.

Filed Jan. 13, '31. Dated Nov. 18, '30.	
On delivery.....	\$250
Balance in 12 equal monthly installments.....	250

TOTAL COST, \$500

(BUILDING) 515 NE COR. DEMING WAY and Uranus Terrace; all work on one-story and basement frame building.

Owner—Wm. H. and A. A. Schroeder, 407 41st Ave.

Architect—C. F. Strothoff, 2274 15th Street.
Contractor—H. C. Mangels, 1141 Naples St.

Filed Jan. 13, '31. Dated Jan. 9, '31.	
Frame up.....	\$154
Brown coated.....	1254
Completed and accepted.....	1254
Usual 35 days.....	1254

TOTAL COST, \$5018
Limit, 90 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded Accepted
Jan 6, 1931—NW CAYUGA AVE 159 SW Lamartine SW 25 x NW 100.
J Horn to whom it may concern.....

January 5, 1930
Jan 10, 1931—E YORK ST 25th St 25x75. J R and H M Schroff to G L Plov and V P Laguens.....

December 29, 1930
Jan 6, 1931—NE TOCLOLOMA AVE and Lathrop Ave 30x100. Wm H Grahm to whom it may concern.....

January 3, 1931
Jan 8, 1931—NW HOWARD 225 SW 7th SW 50 x NW 155. Julius and Dorothea Harband and Arthur Wagner to Schultz Const Co.....

January 6, 1931
Jan 8, 1931—LOT 2 BLK 36 map of Ingelside Terraces. F E and V E Augustiny to H W Armbrust.....

January 8, 1931
Jan 10, 1931—W 27th AVE 50 and 75 S Rivera St 25x32 6/12. E Mirsky & Son Inc to Standard Bldg Co (two completions).....

Jan 8, 1931—N FELL ST 109 x 8 N of NE corner of lot being 100 E of NE corner Van Ness Ave. The Viavi Co to Barrett & Hillp.....

November 24, 1930
Jan 6, 1931—SW COR FRANKLIN and Elm Sts. No 711 Franklin St. F Barriere to whom it may concern.....

January 2, 1931
Jan 6, 1931—W 25th AVE 275 S Uillea St S 25 x W 120. N E Johnson to whom it may concern.....

January 5, 1930
Jan 13, 1931—NE CALIFORNIA and Franklin Sts. First Church of Christ Scientist to C M Moore and M P Madsen as Moore & Madsen.....

December 25, 1930
Jan 13, 1931—E TWENTY-SECOND Ave 160 N Judah N 50x120. H

Christensen to whom it may concern.....

Jan 13, 1931—N JACKSON 49 W Steiner W 25xN 82-84. Frederick G and Juanita Zelinsky to W K Irvine and Henry Jacks (as Jacks & Irvine, Inc).....

Jan 9, 1931—SE MARKET AND First frontage 91-3 on Market and 137-5 on First. Mark Sheldon Co to Chas H Moore and A P Teele.....

Jan 13, 1931—SW ULEOA ST. AND Twenty-fifth Ave S 25xW 95. N E Johnson to whom it may concern.....

Jan 13, 1931—E TWENTY-FOURTH Ave 191 N Kirkham 25x120. Christian Andersen to whom it may concern.....

Jan 12, 1931—LOTS 41 AND 42 BLK 8301, Map Castle Manor. Castle Bldg Co to Henry Horn.....

Jan 12, 1931—NOS 42 and 44 CASA Way, bet Marina Blvd. and Retiro. R P Baron to C D De Velbiss.....

Dec. 30, 1930
Jan 10, 1931—W THIRTIETH AVE 200 S Cabrillo S 25xW 120. H C and S J Arndt to Orrin Knox & Son.....

Jan 10, 1931—S PINE 112-6 W Gough W 25xS 120. H D Hopper to W C Boswall.....

Jan 10, 1931—W VALENCIA 257-6 N Sixteenth 25x90. J Mancuso to whom it may concern.....

Jan 10, 1931—LOT 16 BLK 20, Map Sunnyside. H J Ohlson to whom it may concern.....

Jan 10, 1931—W TWENTY-FIRST Ave 225 S Moraga 25x120. G and B Leaks to whom it may concern.....

Jan 10, 1931—SIXTEENTH ST. plant of Associated Oil Co. Associated Oil Co to Bay City Iron Works.....

Jan 9, 1931—PTN LOT 15 BLK 3535 St Marys Park; NE line lot 16 and NW Benton Ave N 51' 52" W 106-58 S 33' 08" W 23 S 51' 52" E 111-26 NE 23-387. A R and H M Johnson to whom it may concern.....

January 2, 1931
Jan 9, 1931—SW NAGLE AVE 27-6 SE Huron Ave Lot 1 Blk 17 West End Map 2. Patrick Horgan to whom it may concern.....

January 8, 1931

LIENS FILED

San Francisco County

Jan. 13, 1931—NE McALLISTER & Laguna N 100x36. Joseph W Dolan vs Skelly Estate Co and Jas J O'Connor.....

Jan 9, 1931—N CARRILLO ST bet 23rd and 24th. No 2242 Carrillo St. Selva Bros vs S and M Piercy.....

Jan 6, 1931—LOTS 1 to 10 INC BLK 4 Heyman Tract No 2. Pacific Mill & Cabinet Co vs Heyman Bros and C Mourgos, trustee for J. G. E and A Mourgos.....

Jan 6, 1931—NE NEWCOMBE ST 275 NW Ingalls St NW 25 x NE 160. Z Dominguez vs H and D Rojo.....

Jan 6, 1931—NE HAYES ST and Van Ness Ave N 60-0% x E 109. Standard Distributing Co vs Edw and Arline M Holkin, Max Schallman and J Bush.....

RELEASE OF LIENS

San Francisco County

Recorded Amount
Jan 9, 1931—SE MARKET and NE 12th St SE 276 NE 83-94 N 324-58 SW 226-96. B F Hoff and G F Gence as Jerns-Morr Electric Co to A J Pern, W Graf and S J Peyer.

Jan. 3, 1930—SE MISSION 100 NE Russia Ave NE 100xSE 103.6 G Bianchi; J Condi and Excelsior Builders Supply Co. to J Hill and A B and V B Frank.....
 Jan. 10, 1931 - W FOURTEENTH Ave 220 S Taraval S 39xW 135. Chas W Higgins and E J Kraus; A Cook and J H Kruse to J E and T C Peterson; F H Lisl and H W Bott.....

Owner—J. S. Flagg, 3562 Redwood Rd., San Leandro.
 Architect—Not Given.
 Contractor—Wm. Watson, 1036 Balboa St., Burlingame. \$3000

FLATS
 (27) N FLEMING AVE 200-240 W Seminary Ave., OAKLAND. Two-story 10-room (2) flats.
 Owner—C. W. Short, 574 Rosal Ave., Oakland.
 Architect—Not Given. \$7800 each

Owner and Builder—Gene Compton's, Inc., 1124 Broadway, Oakland.
 Architect—Not Given. \$2000

DWELLING
 (38) E OAKMORE ROAD 40 North Casserline Road, OAKLAND; one-story 5-room dwelling.
 Owner—E. T. Moore.
 Architect—Not Given.
 Contractor—F. T. Dooley, 3336 Vale Ave., Oakland. \$5000

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
20	Mayer	Owner	2000
21	Bemis	Owner	120000
22	Sorenson	Paige	1500
23	Miller	Porter	4800
24	Firestone	Thrams	7000
25	U S Battery	Brown	1400
26	Flagg	Watson	3000
27	Short	Owner	15600
28	Kingman	Anderson	5900
29	Grubb	Owner	3300
30	Henning	Harwood	2000
31	Von Salzen	Swanstrom	2500
32	Marston	Thorpe	1500
33	Brain	Roberts	40,000
35	Brusasco	Peppin	2300
36	Chamberlain	De Velbiss	2000
37	Compton's	Owner	2000
38	Moore	Dooley	5000
39	Rodrigues	Owner	2000
40	Russell	Owner	2300
41	Miller	Stockholm	6000
42	U C Storage	Electrical	3000
43	Mauzy	Shaw	11000

RESTAURANT
 (20) SW CORNER 42nd and Broadway, OAKLAND; one-story restaurant.
 Owner and Builder—K. E. Bemis, 1962 San Pablo Ave., Oakland.
 Architect—Not Given. \$2000

APARTMENTS
 (21) W CRESCENT ST. 130 S Santa Clara Avenue, OAKLAND; three-story 106-room apartments.
 Owner and Builder—K. E. Mayer, 1129 McKinley Ave., Oakland.
 Architect—D. D. Stone, Howden Bldg., Oakland. \$120,000

ADDITION
 (23) 5809 IVANHOE ROAD, OAKLAND; addition to garage.
 Contractor—H. L. Paige, 5651 Oak Owner—H. L. Sorenson, 5809 Ivanhoe Road, Oakland.
 Architect—W. E. Schirmer, 700 21st Ave., Oakland. \$1500

RESIDENCE
 (23) NO. 698 CRAGMONT AVE., BERKELEY. One-story 6-room 1 1/2 family frame residence.
 Owner—H. D. Miller, 732 Cragmont Ave., Berkeley.
 Architect—W. H. Hooper.
 Contractor—Porter & Porter, 309 Amhurst Ave., Berkeley. \$4800

ALTERATIONS
 (24) 288 11th STREET, OAKLAND; alterations.
 Owner—Firestone Tire & Rubber Co., Los Angeles.
 Architect—Not Given.
 Contractor—C. H. Thrams, 28 Home Place, Oakland. \$7000

ALTERATIONS
 (25) 2536 WEBSTER STREET, OAKLAND; alterations.
 Owner—U. S. L. Battery Co., 98th Ave. and Bancroft Ave., Oakland.
 Architect—Not Given.
 Contractor—H. Brown, 189 Warwick Ave., Oakland. \$1400

DWELLING
 (26) NO. 723 WOODLAND AVE., SAN LEANDRO. One-story five-room dwelling.

RESIDENCE
 (28) NO. 1680 LA LOMA AVE., BERKELEY. Two-story 8-room 1-family frame residence.
 Owner—H. L. Kingman, 374 17th St., Oakland.

Architect—Williams & Wastell, 374 17th St., Oakland.
 Contractor—W. H. Anderson, 1014 Doris Court, Alameda. \$5900

DWELLING
 (29) E 105TH AVE 240 S Beverly Ave. OAKLAND. One-story six-room dwelling.
 Owner—Jas. B. Grubb, 2012 38th Ave., Oakland.
 Architect—None. \$3300

ALTERATIONS
 (30) NO. 1006 SEVENTH AVE., OAKLAND. Alterations and additions to apartments.
 Owner—L. H. Henning, Premises.
 Architect—Not Given.
 Contractor—Harwood & Peppard, 1116 Kains Ave., Oakland. \$2000

GARAGE
 (31) W SEVENTEENTH AVE 90 N E-14th St., OAKLAND. One-story brick garage and shop.
 Owner—John Von Salzen, 2245 10th Ave., Oakland.
 Architect—Not Given.
 Contractor—Geo. Swanstrom, 1723 Webster St., Oakland. \$2500

DWELLING
 (32) NO. 2707 CLAY ST., ALAMEDA. One-story 5-room frame and stucco dwelling.
 Owner—N. F. Justice, 973 Pearl St. Alameda.
 Architect—Not Given. \$3750

ALTERATIONS
 (33) NO. 1111 REGENT, ALAMEDA. Alterations and additions.
 Owner—T. Marston, Premises.
 Architect—Not Given.
 Contractor—V. Thorpe, 1715 Alameda Ave., Alameda. \$1500

APARTMENTS
 (34) E ERIE ST., 150 N Mandana Blvd., OAKLAND; three-story 48-room apartments.
 Owner—Louise B. Erain, 3660 Lakeshore Ave., Oakland.
 Architect—Not Given.
 Contractor—R. G. Roberts, 3001 Fulton St., Berkeley. \$40,000

DWELLING
 (35) 4536 WEST ST., OAKLAND; 1-story 4-room dwelling.
 Owner—John B. Brusasco.
 Architect—Not Given.
 Contractor—Peppin & Johnson, 2185 50th Ave., Oakland. \$2900

REPAIRS
 (36) NE COR. 12th and Washington Sts., OAKLAND; fire repairs.
 Owner—Selah Chamberlain, 1111 S Bldg., San Francisco.
 Architect—Not Given.
 Contractor—C. D. DeVelbiss, 354 Hobart St., Oakland. \$2000

ALTERATIONS
 (37) 447 12th STREET, OAKLAND; alterations.

DWELLING
 (39) W 10TH AVE. 80 N Voltaire St., OAKLAND; one-story four-room dwelling.
 Owner and Builder—J. F. Rodrigues, 926 39th Ave. Oakland.
 Architect—Not Given. \$2000

DWELLING
 (40) S SCOTT ST. 250 E 94th Ave., OAKLAND; one-story six-room dwelling and 1-story garage.
 Owner and Builder—Geo. H. Russell, 8121 Idlewood St., Oakland.
 Architect—Not Given. \$3200

ELEVATOR
 (41) NO. 445 MOUNTAIN AVE., PIEDMONT. Elevator.
 Owner—Annie Miller, Premises.
 Architect—Bakewell & Welhe, 251 Kearny Ct., San Francisco.
 Contractor—Chas. Stockholm Sons, Russ Bldg., San Francisco. \$6000

SIGNS
 (42) NW COR. 46th ST. and Shattuck Ave., OAKLAND; roof sign and two electric signs.
 Owner—U. C. Storage Co., 46th and Shattuck Ave., Oakland.
 Architect—Not Given.
 Contractor—Electrical Prod. Corp., 950 30th St., Oakland. \$3000

ALTERATIONS
 (43) 1140 GRIZZLY PEAK BLVD., BERKELEY; alterations.
 Owner—Mrs. V. Mauzy, premises.
 Architect—Not Given.
 Contractor—Arthur W. Shaw, 5 4 0 1 Broadway, Oakland. \$11,000

BUILDING CONTRACTS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
2	Miller	Finzel	1013
3	Miller	Bell	1595
4	Miller	Woolf	1965
4	Firestone	Thrams	8700
5	Howard	Picard	3895
6	Regents	Turner	22035
7	Regents	Groden	116995
8	Regents	Lawson	4041
9	Dinkelspiel	Mattock	20500
10	Taylor	Jensen	14500
11	Catholic	Furlong	43000

PLUMBING
 (2) 2350 TELEGRAPH AVE., Oakland; plumbing for additions and alterations, together with new chapel building.
 Owner—Grant D. Miller, 1028 Hollywood, Oakland.
 Architect—Miller and Warnecke, Financial Center Bldg., Oakland.
 Contractor—Max Finzel, 2035 Hopkins St., Oakland.
 Filed Jan. 8, '31. Dated Jan. 5, '31.
 When roughed in.....\$500
 When completed.....300
 Usual 25 days.....218
TOTAL COST, \$1018
 Bond, \$018. Sureties, Globe Indemnity Co. Limit, 90 days. Plans and Spec. filed.

(3) HEATING on above.
 Contractor—Geo. C. Bell, 1826 E 15th St., Oakland.
 Filed Jan. 8, '31. Dated Jan. 5, '31.
 When piping is installed.....\$295
 When accepted.....700

Usual 35 days..... 300
 TOTAL COST, \$1595
 Bond, \$1595. Sureties, Globe Indemnity Co. Limit, 90 days. Plans and Spec. filed.

(4) ELECTRICAL WORK on above. Contractor—Geo. Woolf, Oakland. Filed Jan. 8, '31. Dated Jan. 5, '31. When roughed in..... \$650
 For electric fixtures on order of architect..... 1000
 When completed..... 215
 Usual 35 days..... 100
 TOTAL COST, \$1965
 Bond, \$1965. Sureties, Globe Indemnity Co. Limit, 90 days. Plans and Spec. filed.

STORE & SERVICE STATION
 (4) ELEVENTH and Harrison Sts., Oakland; general construction on the store and service station. Owner—Firestone Realty Co., premises. Architect—Not Given. Contractor—C. H. Thrams, 28 Home Place, Oakland. Filed Jan. 13, '31. Dated Dec. 20, '30. 15th of each month..... 75%
 Usual 35 days..... Balance
 TOTAL COST, \$3700
 Bond, \$3700. Sureties, Ralph W. Kinney. Limit, Feb. 2, 1931.

HEATING SYSTEM
 (5) 1545 SANTA CLARA AVE., Alameda; installing steam heating system in bungalow court. Owner—C. C. Howard, 1541-1/2 Santa Clara Ave., Alameda. Architect—Not Given. Contractor—W. H. Picard, Inc., 5656 College Ave., Oakland. Filed Jan. 13, '31. Dated Sept. 30, '30. Cash..... \$711
 Balance in 18 equal monthly installments beginning Jan. 16th. TOTAL COST, \$3596
 Specifications filed.

MECHANICAL EQUIPMENT
 (6) CAMPUS of the University of California, Berkeley; installing mechanical equipment in Memorial Bldg. Owner—Regents of the University of California, Berkeley. Architect—Geo. W. Kelham, 315 Montgomery St., San Francisco. Contractor—The Turner Co., 329 Tebbins St., San Francisco. Filed Jan. 13, '31. Dated Jan. 6, '31. 1st of each month..... 75%
 Usual 35 days..... Balance
 TOTAL COST, \$2,000
 Bond: Labor and Materials, \$12,000; Performance, \$12,000. Sureties, U. S. Guarantee Co. Forfeit, \$25 per day. Limit, 180 days. Plans and Spec. filed.

MEMORIAL BLDG.
 (7) GENERAL construction of above Memorial Bldg., Berkeley. Contractor—J. J. Grodem & Co., 1023 San Antonio Ave., Alameda. Filed Jan. 13, '31. Dated Jan. 7, '31. 1st of each month..... 75%
 Usual 35 days..... Balance
 TOTAL COST, \$116,995
 Bond: Labor and Materials, \$59,000; Performance, \$59,000. Sureties, Fidelity and Deposit Co., of Maryland. Forfeit, \$25 per day. Limit, 180 days. Plans and Spec. filed.

PNEUMATIC TUBE SYSTEM
 (8) CAMPUS of the University of California, Berkeley; completion of pneumatic tube system for hospital building. Owner—Regents of the University of California, Berkeley. Architect—W. P. Stephenson, University of California, Berkeley. Contractor—The Lawson Company, 611 Howard St., San Francisco. Filed Jan. 13, '31. Dated Jan. 7, '31. On completion..... 75%
 Usual 35 days..... Balance
 TOTAL COST, \$4011
 Bond: Labor and Materials, \$2,100; Performance, \$2100. Sureties, Stand-

ard Accident Ins. Co. Forfeit, \$10 per day. Limit, 30 days. Spec. filed.

RESIDENCE
 (9) ESTATE of Mrs. G. W. Hellman, Jr., Oakland; general construction, painting and lighting fixtures on residence. Owner—Lloyd and Florence Dinkel-spiel. Filed Jan. 14, '31. Dated Jan. 14, '31. Architect—Ja s H. Mitchell, 369 Pine St., San Francisco. Contractor—A. F. and C. W. Mattock, 122 Clara St., San Francisco. Monthly payments of..... 75%
 Usual 35 days..... Balance
 COST plus 10%, not to exceed \$20,500
 Plans and Spec. filed.

RESIDENCE
 (10) ALVARADO ROAD, Berkeley; Lot 15 Block 4, Hotel Claremont Trac.; general construction on 2-story and attic frame residence and garage. Owner—Myron D. Taylor. Architect—W. R. Yelland, Financial Center Bldg., Oakland. Contractor—Jensen & Pedersen, 3443 Adeline St., Oakland. Filed Jan. 14, '31. Dated Jan. 9, '31. When frame is up..... \$3850
 First coat of plaster..... 350
 When accepted..... 350
 Usual 35 days..... 3850
 TOTAL COST, \$15,400
 Limit, 90 days. Plans and Spec. filed

CHURCH
 (11) NW EXCELSIOR AVE. and Emerson St., Oakland; general construction on concrete church and basement except lathing and plastering, heating and roofing. Owner—The Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco. Architect—Wm. E. Schirmer, 700 21st St., Oakland. Contractor—Thos. F. L. Furlong, Emerson Ave. and Excelsior Street, Piedmont. Filed Jan. 14, '31. Dated Jan. 12, '31. When 1st floor joists laid..... \$862.50
 When roof sheathing is on..... 862.50
 When brown coated..... 862.50
 When completed..... 862.50
 Usual 35 days..... 10750.00
 TOTAL COST, \$43,000
 Bond, \$43,000. Sureties, Aetna Casualty & Surety Co. Limit, 150 days. Plans and Spec. filed.

COMPLETION NOTICES
 ALAMEDA COUNTY
 Recorded Accepted
 Jan. 10, 1931—PTN LOTS 48 AND 49 Bld D, Lakeshore Hills, Oakland. Byard C Taylor to whom it may concern..... Jan. 10, 1931
 Jan. 10, 1931—ON STATE HIGHWAY bet. Dublin and Hayward. Property of May Howard and Alexander M. Anderson. Dept. of Public Works, Division of Highways, State of Calif. to Rufus Gonsalves..... Jan. 9, 1931
 Jan. 9, 1931—LOT 23 BLK K, Durant Manor, Oakland. Charles W and Ada J Griffith to whom it may concern..... January 8, 1931

Jan. 9, 1931—LOT 27 BLK K, Durant Manor, Oakland. Charles W and Ada J Griffith to whom it may concern..... January 8, 1931
 Jan. 9, 1931—VESTER STREET at the Oakland Estuary, Alameda. Associated Oil Co to A H Davies..... January 5, 1931
 Jan. 8, 1931—SW 32nd and Chestnut Sts., Oakland. J F Summers to whom it may concern..... Jan. 2, 1931
 Jan. 7, 1931—2643 76th Ave., Oakland. P S Hanson to Self..... January 5, 1931
 Jan. 7, 1931—176 ATHOL AVENUE, Oakland. Blae E Morehouse to C W Leekins..... C W Leekins, 1931
 Jan. 7, 1931—ALTA-MOUNT PASS, State Highway bet Greenville and San Joaquin County Line. Dept of Public Works, Div of Highways, State of California to Chas W Beguhl..... January 2, 1931
 Jan. 9, 1931—LOT 37 BLK H, Claremont Pines, Oakland. Benton A and Mabel I Sifford to J M Olson..... Jan. 6, 1931

LIENS FILED

ALAMEDA COUNTY
 Recorded Amount
 Jan. 13, 1931—PTN LOTS 14 AND 14 1/2, Unit C, Oak Knoll, Oakland. Boorman Lumber Co, \$267.37; Freitas Plumbing & Heating Co, \$158 vs Jesse D and Jewel R Colbert and Wm Arthur..... \$57.79
 Jan. 13, 1931—NW E-FIFTEENTH St and Thirteenth Ave, Oakland. City of Oakland vs..... \$57.79
 Jan. 13, 1931—NO. 2538 GRANT ST., Berkeley. Eny City Asbestos Co, Inc vs Leon F Marsh; Vivian Marsh and Gerald W Marsh..... \$155
 Jan. 12, 1931—NO. 488 THIRTY-fifth St., Oakland. R E Montgomery vs Axel C Nelson and Henry Nelson Bros..... \$39
 Jan. 12, 1931—LOT 143-H, Unit C, Oak Knoll, Oakland. T A Ryan vs J D Colbert and Wm Arthur..... \$135.25
 Jan. 12, 1931—LOT 143-H, Unit C, Oak Knoll, Oakland. Melrose Bldg Material Co vs J D Colbert and Wm Arthur..... \$249.95
 Jan. 10, 1931—E LENOX AVE 350.55 SE Montecito Ave., Oakland. Whis C Lowe vs Albert and Emily Kroll..... \$3564
 Jan. 9, 1931—LOT 17 BLK 4, Thousand Oaks Heights, Berkeley. Sunset Hardware Co vs Earle R and Fraye M Converse..... \$74.30
 Jan. 9, 1931—NORTH END E 14th St and 14th Ave, Oakland. Atlas Sales Co vs R L Jones and Melrose Steel Co..... \$175
 Jan. 7, 1931—PTN LOTS 148 and 149 Oak Knoll Unit C, Oakland. Walter Maiden vs Jesse D and Jewel R Colbert, Wm Arthur..... \$43.75
 Jan. 7, 1931—SE 13th and WASHINGTON Sts, Oakland. Carl T Doell Co vs Julius and Hugo Abrahamson, Earl S Harless and F J Golfuss..... \$169

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BUILDING CONTRACTS

SAN MATEO COUNTY

GARDEN WALLS

NO. 670 BREWER DRIVE, Hillsborough. All work for garden walls, etc.

Owner—Ethel S. Henderson, Prem. Architect—Not Given. Contractor—G. W. Williams Co., Ltd., 2807 Adeline St., Burlingame.

Table with 2 columns: Item description and Amount. Includes 'Concrete poured', 'Plastered', 'Completed', 'Usual 35 days', and 'TOTAL COST, \$3489'.

Bond, none. Limit, 40 working days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted

Jan. 5, 1931—LOT 4, Oakknoll Manor Mary T Casaretto to whom it may concern.....Dec. 29, 1930

Jan. 7, 1931—LOTS 11 AND 23 BLK 1, Schultz et al to Schultz Constr Co.....Jan. 5, 1931

Jan. 8, 1931—LOT 5 BLK 5, Baywood. Gordon C Hess et al to W O Nicolaid.....Jan. 7, 1931

Jan. 8, 1931—PART LOTS 16 AND 17 Blk 6, Polo Field. Edmund Bourne to G W Williams Co.....Jan. 2, 1931

Jan. 8, 1931—LOT 4 BLK 11, Abbey Homestead. G Martini to W E Merritt.....Jan. 1, 1931

Jan. 9, 1931—SOUTH SAN FRANCISCO and Burlingame. State Highway Commission to Esch Bros Constr Co.....Jan. 3, 1931

Jan. 9, 1931—NW CARMELITA AVE Burlingame. Mary C Hess et al to Gordon C Hess.....Jan. 5, 1931

Jan. 2, 1931—PART LOT 14 BLK 4, Burlingame Shore Land Co. Anna J Tegner to Grove Pederson.....Dec. 31, 1930

Jan. 3, 1931—LOT 22 BLK 5, Concordia Land Co., San Mateo. Pietro Pastorino to Joseph Ragni.....Dec. 23, 1930

Jan. 3, 1931—LOT 35 BLK 2, Jefferson Park, San Mateo. Castle Bldg Co to Henry Horn.....Dec. 20, 1930

Jan. 3, 1931—PART LOT 6 and Lot 7 Blk 6, Blossom Heath Manor, San Mateo. Castle Bldg Co to Henry Horn.....Dec. 31, 1930

Jan. 4, 1931—LOT 7, Bowie Estate, San Mateo. Raimund B Wurritzer to Lloyd C Simpson.....Dec. 30, 1930

Jan. 4, 1931—LOT 30 BLK 2-A. Aragon. Meyer Eros to whom it may concern.....Dec. 23, 1931

Jan. 6, 1931—LOT 13 BLK 21, Robinson Sub., San Mateo. Eric Slandquist as to improvements on property.....Jan. 6, 1931

Jan. 6, 1931—LOT 3 BLK 32, Redwood Highlands. Charles H Beckman to whom it may concern.....Jan. 6, 1931

Jan. 6, 1931—PART LOTS 11, 12 & 13 Blk 11, Menlo Heights. Leon Lewis to whom it may concern.....Jan. 5, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded Amount

Jan. 9, 1931—LOT 2 BLK 2, Redwood Farm. Progress Lumber Co vs S J Clements.....\$579.27

Jan. 7, 1931—2.95 ACRES LAND, Part of Bella Britton Lands. Redwood City Hardware Co vs Amanda Thal et al.....\$192.91

Jan. 7, 1931—LOT 2 BLK 15, Bayview Heights. W A Helman et

al vs Martin Peterson.....\$47.50

Jan. 2, 1931—LOTS 19 AND 23 BLK 6, Lomita Park. San Mateo Feed & Fuel Co vs Jerry Dell et al.....\$103.90

Jan. 2, 1931—LOT 2 BLK 15, Bayview Heights. Peerless Plumbing & Supply Co., \$201.70; F G Peterson, \$57; Palo Alto Lumber Co, \$518 vs Martin Peterson et al.....

Jan. 3, 1931—LOTS 14 AND 15 BLK 2, Bayview Heights. F G Peterson vs Martin Peterson.....\$43.50

Jan. 31, 1931—LOT 2 BLK 9, Eagle Hill Addition. Leon A Demars vs C G Lambert et al.....\$50

Jan. 3, 1931—LOT 2 BLK 2, Waste Whitlen Montgomery Subd. Leon A Demars vs C G Lambert et al.....\$275

Jan. 4, 1931—2.95 ACRES, Mary Bell Britton Tract. Donald B Sevier et al vs R L Dineley.....\$1044.58

Jan. 6, 1931—LOT 1 BLK 21, Town of San Mateo; Easton Part of San Francisco Roofing Co vs Hugh Ridge et al (2 liens).....\$295 and \$165 respectively

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$8700; No. 1178 Hamilton Ave., Palo Alto; owner, E. H. Helm 418 University Ave., Palo Alto; contractor, John E. Hanson, 253 Fulton St., Palo Alto.

BUILDING PERMITS

REDWOOD CITY

ADDITIONS and alterations to frame dwelling, \$2000; No. 273 Arlington Road, Redwood City; owner, M. Dalk; contractor, C. E. Magne, 114 Hudson St., Redwood City.

DWELLING, 6 rooms and bath and garage, \$3000; No. 1165 Clinton St., Redwood City; owner, and contractor, Geo. J. Lehman.

BUILDING PERMITS

BURLINGAME

BUNGALOW, \$4000; Lot 2 Blk 2, Oak Grove Ave., Burlingame; owner and contractor, Milton Finlof, 540 Francisco St., Burlingame.

STORE and apartments, \$16,700; Lot 21 Blk 14, Broadway, Burlingame; owner, Geo. Lempergulas, 1212 El Camino Ave., Burlingame; contractor, L. Sorensen, 1128 Lincoln St., Burlingame.

Jan. 12, 1931—S KATHERINE AVE at NW cor of parcel of land deeded to owner, Angus L and Vera Vitelle to whom it may concern.....Jan. 10, 1931

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted

Dec. 29, 1930—S DANNA ST. 80 W Mt. View Ave., Mountain View. William Dirksen to whom it may concern.....Dec. 25, 1930

Dec. 30, 1930—E LINCOLN AVE 200 N Minnesota Ave, San Jose. G W Brown to whom it may concern.....Dec. 28, 1930

Dec. 30, 1930—LOT 19 BLK 2, Garden City Tract, San Jose. Lena Fate Delmune to whom it may concern.....Dec. 30, 1930

Dec. 31, 1930—PART 506 ACRE LOT 26, Pietro Plane et al to whom it may concern.....Dec. 31, 1930

Dec. 31, 1930—LOT 7 BLK 3, Lincoln Gates. Charles W Sannin to whom it may concern.....Dec. 30, 1930

Dec. 31, 1930—LOT 8 BLK 2, Rest-

wood Park No. 2. Alfred D Zeder et al to whom it may concern.....Dec. 27, 1930

Jan. 2, 1931—LOT 14 BLK 3, N R 6 W Miller & 126 Western Addition, Gilroy. W F Schreast to whom it may concern.....Jan. 2, 1931

Jan. 3, 1931—LOTS 18 AND 19 BLK 2, Vendome Park, San Jose. Lucy A Addition to whom it may concern.....Jan. 2, 1931

Jan. 3, 1931—NE FULTON ST and SE Tennyson Ave SE 63NE 125 to be all Lot 10 and part Lot 11 Blk 141, Embarcadero Oaks, Palo Alto. Enoch M Brickey to whom it may concern.....Jan. 5, 1931

Jan. 7, 1931—LOT 4, Taaffe Partition, San Jose. Francis V Bloch to whom it may concern.....Jan. 5, 1931

Jan. 7, 1931—LOT 9 BLK 33, Los Altos No. 3. W H Sherman to whom it may concern.....Dec. 30, 1930

Jan. 8, 1931—LOTS 11 AND 12 BLK 26, College Terrace, Palo Alto. E H Tuckert & A H Excell.....Jan. 6, 1931

Jan. 8, 1931—LOT 7 BLK 7, Rose Lawn. Martin Volkman et al to whom it may concern.....Jan. 8, 1931

Jan. 16, 1931—TULLY ROAD, San Jose. Board of Trustees Franklin School District to whom it may concern (heating Franklin School).....Jan. 9, 1931

Jan. 10, 1931—TULLY ROAD, San Jose. Board of Trustees Franklin School District to whom it may concern (Franklin Grammar School).....Jan. 10, 1931

Jan. 10, 1931—591 OREGON AVE Palo Alto. Louise Fikes et al to whom it may concern.....Jan. 8, 1931

Jan. 12, 1931—LOT 14 BLK 62, Seale Addition No 2, Palo Alto. Fred and Carrie Kunz to whom it may concern.....Jan. 10, 1931

Jan. 12, 1931—PART LOT 40, Lincoln Subd., San Jose. Jay C Gould et al to whom it may concern.....Jan. 10, 1931

Jan. 12, 1931—LOT 38 Palmita Park Mountain View. Earl D Minton to whom it may concern.....Jan. 9, '31

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount

Jan. 9, 1931—E 1/2 LOT 23, Emerson Tract. San Jose, Phillip Schmidt vs Evan Churin.....\$116.25

Jan. 9, 1931—E 1/2 LOT 28, Emerson Tract, San Jose. W C Duckgelschel vs Evan Churin.....\$161.28

Jan. 12, 1931—SUBD 13 BLK 89, Palo Alto. Edward P Cashel vs John C Whipple.....\$59.13

Dec. 29, 1930—S 30 FT. LOT 5 and N 17 1/2 Lot. Lot 6 Blks 3 and 4 North Range 1, East, Gilroy. J I Gray vs Lawrence Vincino.....\$33.60

Dec. 29, 1930—NW FOURTEENTH and North Sts., San Jose. M W Reese vs P M Takachi.....\$227.60

Dec. 29, 1930—NW COLLEGE AVE 50 SW Williams St SW 37 1/2xNW 115 ft. part Lot 7 and all Lot 8 Blk 40, College Terrace, Palo Alto. Progress Lumber Co vs Willis J Sheldon.....\$45.97

Dec. 29, 1930—NW COLLEGE AVE SW Williams St. SW 37 1/2xNW 115 ft. Part Lot 7 and all Lot 8 Blk 40, College Terrace, Palo Alto. Merner Lumber Co vs Willis J Sheldon.....\$46.56

Dec. 29, 1930—1 ACRE on North Homestead Road. Fred Bowen vs

Perry Camacho et al\$32.29
 Jan. 2, 1931—NE THIRTEENTH &
 Santa Clara Sts., San Jose, J A
 Ferguson vs L A Peckham et al
\$198.45

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
 Dec. 30, 1930—LOT 5 and NE 1/4 Lot
 4 Blk 5, East San Jose Homestead
 Assn. Henry Cowell Lime & C-
 ment Co to Nellie Sarnes.....\$82.40
 Jan. 12, 1931—LOT 5 BLK W, Los
 Altos Country Club Properties, G
 W Wilson to Kathryn Nielson, \$25
 Jan. 12, 1931—LOT 5 BLK W, Los
 Altos Country Club Properties,
 Sunset Lumber Co to Jessie R
 Grant et al.....\$384.85
 Jan. 12, 1931—LOT 5 BLK W, Los
 Altos Country Club Properties,
 Peninsular Roofing Co to Kathryn
 Nielson.....\$437

BUILDING CONTRACTS

MONTREY COUNTY

STORE
 MAIN ST., Salinas. All work for one
 story and mezzanine floor store
 building.
 Owner—W. M. Irvine, 75 Willow St.,
 Salinas.
 Architect—Milton W. Morrison, 601
 42nd Ave., San Francisco.
 Contractor—E. F. Reese, 158 Central
 Ave., Salinas.
 Filed Jan. 12, '31. Dated Jan. 7, '31.
 On or before 10th of ea month 75%
 Usual 35 days.....25%
 TOTAL COST, \$16,000
 Bond, \$24,000. Surety, Howard Chad-
 bourne and C. B. Phillips. Limit, 125
 working days. Forfeit, none. Plans
 and specifications filed.

HOTEL
 NW MAIN AND CENTRAL AVE.,
 Salinas. All work or one-story
 Class C hotel.
 Owner James Trigonis, 103 Central
 Ave., Salinas.
 Architect—Willis E. Huson, San
 Francisco.
 Contractor—R. V. Thompson, 7 Pajaro
 St., Salinas.

Filed Jan. 7, 1931. Dated Jan. 6, 1931.
 1st floor joists in place..... 1/5
 Ceiling joists in place..... 1/5
 Roof sheathing in place..... 1/5
 Interior plastering finished..... 1/5
 Usual 35 days..... 1/5
 TOTAL COST, \$16,000
 Bond, \$50,000. Surety, Howard Chad-
 bourne and C. B. Phillips. Limit, 90
 working days. Forfeit, none. Plans
 and specifications filed.

LIENS FILED

MONTREY COUNTY

Recorded Amount
 Jan. 7, 1931—LOT 1 BLK 15, Home-
 stead Addition, Monterey. P C
 Storm vs Lavenna P Lake; Thad
 S Lake and William A Williamson
\$112.50

COMPLETION NOTICES

MONTREY COUNTY

Recorded Accepted
 Jan. 12, 1931—LOT 4 BLK 19, Map
 of Monterey Heights, Laura M
 Williams to Oscar Parraguez.....
Jan. 7, 1931
 Jan. 6, 1931—LOT 6 BLK 3, Maple
 Park Addition No. 2, Monterey,
 William Carpenter to Bruce E

BairdJan. 6, 1931
 Jan. 7, 1931—LOT 64 BLK 9, Lang
 & Kessel's Addition to City of Sa-
 linas. John O Breschini to whom
 it may concern.....Jan. 6, 1931

BUILDING PERMITS

MARTINEZ

DWELLING and garage, frame and
 stucco, \$4000; Location omitted,
 Martinez; owner, J. E. and M. J.
 Antrobus; contractor, Jack Mar-
 tin and J. Bennett.

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
 Jan. 7, 1931—SAUSALITO. Kate O
 Smith to Walter L Broderick.....
Jan. 5, 1931
 Jan. 9, 1931—HAWTHORNE HILLS,
 San Anselmo. Ed Rhodes to
 Harold E Squire.....Jan. 9, 1931
 Jan. 10, 1931—HAWTHORNE
 Hills, San Anselmo. Harold Squire
 to Chas E Service.....Jan. 10, 1931
 Jan. 10, 1931—HAWTHORNE
 Hills, Harold Squire to Chas A
 Service.....Jan. 10, 1931
 Jan. 2, 1931—NEA F TIBURON
 Wm Geo Clerc to whom it may
 concern.....Dec. 24, 1930
 Jan. 3, 1931—LARKSPUR. S Virzi
 to whom it may concern.....
Dec. 26, 1930
 Jan. 3, 1931—CORTE MADERA. S
 Virzi to whom it may concern.....
Dec. 26, 1930
 Jan. 6, 1931—TIBURON TWP. Hugo
 Cattani to whom it may concern
Dec. 30, 1930
 Jan. 6, 1931—SAN ANSELMO. Mabel
 S Hines to E E Vaughan. Jan. 2, 1931

LIENS FILED

MARIN COUNTY

Recorded Amount
 Jan. 2, 1931—TAMALPAIS WOODS
 Addition near Mill Valley. Mill
 Valley Lumber Co vs Jos R H Ja-
 coby\$643.01

RELEASE OF LIENS

MARIN COUNTY

Recorded Amount
 Jan. 8, 1931—SAUSALITO. Marin
 Lumber & Supply Co to P F Fund
\$517.15
 Jan. 10, 1931—SHORT RANCH, San
 Anselmo. Dallas Perrenot to
 Gallia Fisher.....\$117

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 Jan. 7, 1931—PTN LOT 21, Govern-
 ment or Gwin Ranch, California
 Water Service Co to E H Mollen-
 camp (Unit No. 3, Cheney Filter
 Plant).....Dec. 31, 1930
 Jan. 7, 1931—PTN LOT 16 BLK G
 Berkeley Park. R W Service to
 R O Brown.....Dec. 30, 1930
 Jan. 7, 1931—LOT 6 BLK 102, Castro
 St. Extension Tract, Richmond. A
 E Warburton to whom it may
 concern.....Dec. 30, 1930
 Jan. 8, 1931—ALL OF BLK 6 ex-
 cept Lots 1 and 2 fronting on Ten-
 nent Ave, bet Pear and Plum Sts,
 Town of Pholo. Roman Catholic
 Church to Valine & Lawrence.....
Dec. 31, 1930
 Jan 10, 1931—MEMORIAL BLDG.

Richmond. J H Wells, County
 Clerk to Lambie & Lambie (paint-
 ing).....Jan. 6, 1931
 Jan. 10, 1931—CONTRA COSTA
 County Hospital. J H Wells,
 County Clerk, to Benjamin Hall,
 Addition to laundry building.....
Jan. 5, 1931
 Jan. 10, 1931—LOTS 27 AND 28 BLK
 67, Richmond Annex. Joseph Para
 to Chas F Kayser.....Jan. 8, 1931
 Jan. 5, 1931—SCHOOL DISTRICT
 Sts., Pittsburg. Pittsburg School
 District to George J Maurer.....
Jan. 2, 1931
 Jan. 5, 1931—EAST BAY MUNI-
 cipal Utility District in Counties
 of Alameda and Contra Costa. East
 Bay Municipal Utility District to
 Horace Phillips and John Gon-
 salves (removal of all timber, etc.
 from properties).....Dec. 31, 1930
 Jan. 5, 1931—EAST BAY MUNI-
 cipal Utility District in Counties
 of Alameda and Contra Costa. East
 Bay Municipal Utility District to
 Hutchinson Co (repairs on as-
 phalt concrete surfacing of Sts.
 within or adjacent to the bound-
 aries).....Dec. 31, 1930

RELEASE OF LIENS

CONTRA COSTA COUNTY

Recorded Accepted
 Jan. 13, 1931—LOT 11 BLK 2, Grand
 View Terrace, Berkeley. Aladdin
 Heating Corp to Mrs. Mabel D
 Bullis\$381.50
 Jan. 10, 1931—PTN LOTS 1 AND 2
 Blk 12, Cragmont, Berkeley. Ed-
 ward W Brodrick to Mary M Wal-
 ton, James G Walton, Jean E Wal-
 ton and J Harry Smith.....\$38
 Jan. 6, 1931—PORTION LOT 14 BLK
 A No. 1, Parkside Addition and
 Racetrack Sub. Concord, being also
 known as Lot 19, Adams Sub-
 division. D J Baldwin and W H
 George (as Concord Mercantile Co)
 to C F and Lillian Adams (2 re-
 lease of liens).....

LIENS FILED

SAN JOAQUIN COUNTY

Recorded Amount
 Jan. 9, 1931—LOT 11 BLK 137, E of
 Center St., Stockton. Fisher Bros
 Lumber & Mill Co vs Perry E Fol-
 som, H E McVay and W G By-
 water\$173.75
 Jan. 9, 1931—KRESS BUILDING,
 Stockton. Raphael Glass Co vs J
 S Metzger & Sons; S H Kress &
 Co; George L Bishop; Eva Brooks
 and Florence Brooks.....\$2195
 Jan. 9, 1931—KRESS BUILDING,
 Stockton. Hg Electric Ventilating
 Co vs Paul W Hirschberg (as Cit-
 izens Sheet Metal Works) and S H
 Kress & Co.....\$1468.90
 Jan. 7, 1931—KRESS BUILDING,
 Stockton. Star Lumber Co vs J S
 Metzger & Son; S H Kress & Co;
 George L Bishop; Eva and Flo-
 rence Brooks.....\$173.06

BUILDING PERMITS

STOCKTON

REPAIR fire damage, \$1300! No. 527
 N-Argrant St., Stockton; owner,
 George S. Sharp, Premises.

BUILDING PERMITS

SACRAMENTO

SERVICE station, \$2000; No. 500 Y
 St., Sacramento; owner, R. W.
 Bird. Route 7, Box 2714, Sacra-
 mento.

GENERAL repairs, \$1000; No. 1120 I St., Sacramento; owner, Mrs. Anna Menkin, 915 11th St., Sacramento

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded	Accepted
Jan. 6, 1931	— LOTS 30 and 4 Land Drive Terrace Unit 1, Sacramento McClatchy Realty Co and Robertson Govan Co to whom it may concern
Jan. 6, 1931	— LOT 3, Land Drive Terrace Unit 1; Lot 19, Land Drive Terrace Unit 1, Sacramento. McClatchy Realty Co and Robertson Govan Co to whom it may concern
Jan. 8, 1930	— NO. 2750 TWELFTH AVE., Sacramento. Sacramento Orphanage and Children's Home to whom it may concern (2 completions)
Jan. 7, 1931	— Foundations Only (all Classes)
Jan. 12, 1931	— LOT 34, South Curtis Oaks Subdivision No. 2, Sacramento. Bernard J Rea to whom it may concern.
Jan. 8, 1931	— Jan. 8, 1931

LIENS FILED

SACRAMENTO COUNTY

Recorded	Amount
Jan. 8, 1931	— S 20 FT. OF N 60 FT. OF W 60 ft. Sacramento. C B Conn vs Joseph B Mazzuchi and Emil Biscard
Jan. 6, 1931	— N 100 FT. LOT 5 BLK 5, North Sacramento Sub. No. 8. Cutter Mill & Lumber Co Ltd vs Hazel Warren Hill
	\$216.47
	\$420.78

BUILDING PERMITS

FRESNO

ALTERATIONS and additions, \$1000; No. 2015 Fresno St., Fresno; owner, Betty Shoppe, Premises; contractor, E. J. Farr & Son, 1296 Linden St., Fresno.
ALTERATIONS and additions, \$1000; No. 2250 Harvey St., Fresno; owner, Walter Lynn.

COMPLETION NOTICES

FRESNO COUNTY

Recorded	Accepted
Jan. 10, 1931	— LOTS 9, 10 AND 11 BK 121, Sanger. W H Jones to whom it may concern
Jan. 9, 1931	— Jan. 9, 1931

LIENS FILED

FRESNO COUNTY

Recorded	Amount
Jan. 8, 1931	— LOT 9, Sanger Terrace, Fresno. Guilbert Wholesale Electric Co vs Guido Giometti et al
	\$1263

OFFICIAL PROPOSALS

January 15, 1931
NOTICE TO CONTRACTORS

General, Mechanical and Electrical Work

SEALED BIDS will be received by Geo. B. McDougall, State Architect, Public Works Building, 11th and P Streets, Sacramento, California, up to 2 o'clock P. M., Tuesday, Feb. 10, 1931, said bids thereafter on said day to be publicly opened and read for the erection and completion of the Cottage for Employees, Stockton State Hospital, Stockton, California, in accord-

ance with plans and specifications therewith.

The Building is to be a two-story reinforced concrete structure with wood partition, floor and roof construction, and tile roof. The total floor area is approximately 6,700 sq ft. Separate bids will be entertained as follows:

1. General Work.
2. Electrical Work.
3. Plumbing and Heating Work
4. Complete Plumb'g, Heating and Electrical Work.

Contractors must state clearly in their application the particular segregation of work that they desire plans for.

Plans and specifications are on file for examination in the offices of the Division of Architecture, Public Works Building, Sacramento, and Room 1025 Associated Realty Building, Los Angeles, and at the principal California Cities Builders' Exchange Offices.

Plans, specifications, and proposal forms may be secured by licensed Contractors who have qualified or who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

Bids will not be accepted from a Contractor to whom a proposal form has not been issued and all bids must be on proposal forms supplied by the State.

Requests for plans shall be accompanied by a deposit of twenty-five (\$25.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition, at Sacramento Office of the Division within 30 days after opening bids, otherwise it will be forfeited to the State.

All bids must be filed at the office of the State Architect on or before the time heretofore stated and in accordance with the "Rules for Bidding" accompanying the proposal form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the "State Engineer, Department of Public Works," in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, Department of Public Works, reserves the right to reject any or all bids and to waive any informality in any bid received.

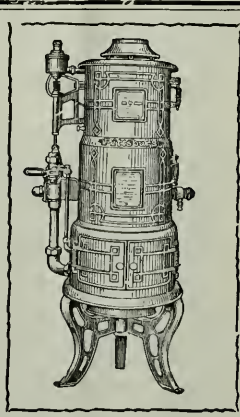
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

GEO. B. McDOUGALL, State Architect
W. E. GARRISON, Director of Public Works.

A. O. Smith Corporation of Milwaukee during 1930 shipped 472,000 tons of electrically welded pipe to all parts of the United States, compared with 425,000 tons in 1929. The 1930 tonnage, according to Carl C. Joys, Jr., manager of pipe sales, consisted of about 3,000 rails, or 2422 carloads. The mileage was nearly the same as in 1929, and the carloads compared with 30,474 in 1929. More heavier pipe was made during the year just closed than in the previous year.

George Ulrich, general contractor of Modesto, has been elected president of the Modesto Chamber of Commerce.

Russian softwood, mostly spruce, amounting to some 7,000,000 board feet, arrived on consignment in Havana, Cuba, during the past year and approximately 56 per cent remains unsold, says a recent communication from Acting Commercial Attache Albert F. Nufer at Havana to the lumber division of the Department of Commerce. This Russian lumber consists of spruce and pine, the bulk of the shipments being spruce. Of the total quantity delivered, about 3,900,000 board feet remain unsold, of which 3,700,000 board feet are spruce. The Cuban trade reports that the primary use to date of this Russian lumber has been for box manufacture.



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BUILDING *and* ENGINEERING NEWS

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SAN FRANCISCO, CALIF., JANUARY 24, 1931

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Thirty-first Year, No. 4



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Building and Engineering News will be sent to subscribers until ordered stopped and all orders to discontinue must be sent in writing to this office.

SERIES OF LECTURES ON CONCRETE MIXING

New methods of mixing concrete to secure a definite strength will be explained and demonstrated with lantern slides by Mr. J. W. Kelly of Chicago in a series of lectures on design and control of concrete mixtures, it is announced by Arthur P. Denton, district engineer for the Portland Cement Association.

The first of these lectures will be held in the Jubilee Room of the Senator Hotel at Sacramento next Monday evening. The second lecture will be held in the auditorium of the Pacific Gas & Electric Building in San Francisco on January 25, the third at the Builders' Exchange, 354 Hobart St., Oakland on January 29 and the fourth in Room 126 of the State Teachers' College at San Jose on January 30. Each lecture will commence at 7:30 P. M.

These lectures are a continuation of a series of talks, given several years ago, to bring before architects, engineers and contractors the new developments in mixing and placing concrete which have been recently discovered. The discussion covers major research projects, improved methods now in use and new machinery for the control of quality concrete. The talk is illustrated by lantern slides. A few of the important local structures on which scientifically controlled concrete has been used are the Suisun Bay Bridge of the Southern Pacific, the Russ, Hunter-Dulin and Shell Buildings in San Francisco and the seven and a half mile San Mateo-Hayward Bridge.

There is no charge for attending these talks which are open to anyone interested.

PROTESTS PAYING WAGES BELOW SCALE

The executive council of the American Federation of Labor, in session at Miami, Fla., directed the sending of a telegraphic protest to President Hoover against the action of heads of departments who have awarded contracts for government work to contractors who pay wages below the prevailing rate in the different communities.

William Green, president of the Federation, said:

"The names of a number of these contractors who are following this policy will be submitted to the President with a vigorous protest against their low wage policy and their indefensible action in the payment of low wages which are known to be lower than the rates paid in private industry where government work is performed.

COURT RULES ON PAYMENT TO WRONG ACCOUNT BY DEALER

It is well settled that if no direction is given by a contractor to which account a materialman shall credit a payment, credit may be given by the creditor to the oldest account, says Leo T. Parker, attorney in the General Building Contractor. So held the higher Court in Shreveport, Co., vs. Meek, 126 So. 513. In this case it was shown that a contractor, who had several accounts with a materialman, paid the latter a sum of money without directing what account should be credited. The materialman credited the payment to the oldest account and later sued to recover payment of the account which the contractor intended to pay when the payment was made.

However since the contractor testified that when the payment was made he instructed the bookkeeper of the materialman to credit the amount to a particular account the Court held the materialman should have credited the money to the named account instead of the oldest one.

NEW QUARTERS FOR STOCKTON BUILDERS

Confidently anticipating a marked upturn in the building industry in the San Joaquin Valley area, the Stockton Builders' Exchange in special meeting last Thursday night voted to move their offices from 20 North San Joaquin Street to more spacious quarters at 242 East Miner Avenue.

The change was voted, Secretary E. M. Lewis reported, in order that displaying windows and a display space on the main floor of the offices might be available to builders and architects for the exhibition of the latest designs, household implements, materials, etc. The remainder of the 40 by 50 foot quarters will be devoted to exchange offices, estimating quarters and a meeting room.

The Exchange also voted to change its meeting date from the first Monday of the month to the first Tuesday.

The annual election of officers will be held by the organization on February 3, according to L. S. Pelz, president of the Exchange.

As is every indication that the building boom anticipated will materialize, members of the Exchange state. It is expected to develop principally in the construction of residential buildings.

As evidence of their faith in the future of Stockton, the Exchange has taken a five year lease on its new quarters.

Hoyt Heater Company of Northern California, Ltd., capitalized for \$75,000, has filed articles of incorporation in Oakland. Directors are: R. C. Hoyt, Ella M. Hoyt and M. M. Lannes, all of Oakland.

CEMENT PRODUCTION AT NEW HIGH RECORD

A new high record of more than 160,000,000 barrels' idle capacity was set by the Portland cement industry of the United States for the year 1930, according to production and used capacity figures of the U. S. Bureau of Mines.

Many plants throughout the country have reported weeks of idleness or partial idleness during previous years as well as during 1930. Last year, however, according to the government report, the 165 plants operating produced only 61.5 per cent of the approximately 260,000,000 barrels of cement that they were equipped to produce each the market being favorable. The 1930 production figure of 160,905,000 barrels is a drop of 9,233,000 barrels from 1929 production.

The cement industry had its biggest year in 1928, when a reader market permitted the production of 176,300,000 barrels. Even in that banner year, however, according to the Bureau of Mines, there was a surplus of 67,400,000 barrels' capacity, or nearly 25 per cent of total capacity.

The industry, according to successive Bureau reports, has built 97,000,000 barrels of new capacity since 1923, while production, which is held in check by market demands, has been gaining but 39,000,000 barrels. Thus unused capacity in the industry has climbed from 24,400,000 barrels, or 15 per cent of the total, in 1923, to 101,723,000 barrels, or nearly 40 per cent of the total capacity, for 1930, as just announced.

NICKERSON, R. R. ENGINEER, PASSES

G. H. Nickerson, chief engineer for the Yosemite Valley Railroad, died in a San Francisco hospital last Thursday. Born in Lebanon, Oregon, in 1863, he entered railway work when a boy.

He went to Merced in 1906 to take charge of construction work for the then building Yosemite Valley railroad, having previously served as superintendent of bridges and buildings for the Santa Fe line.

He remained with the Yosemite Valley railroad as chief engineer from the time of the road's completion until 1911 when he resigned to enter the employ of the Yosemite Lumber Company, and for that concern was in charge of construction of the first incline road at El Portal.

Later he became superintendent of the Oakdale Irrigation District, returning to Merced County to become superintendent of construction in the office of the county engineer, then occupied by A. E. Cowell.

He then returned to the Yosemite Valley railroad as chief engineer to continue in that capacity until his death.

THE QUANTITY SURVEY AS ADAPTED TO BRICK ESTIMATING

(By C. L. Weeks, President, Alliance Engineers, Inc., and Vice-President
American Institute of Quantity Surveyors)

Construction efficiency and success is dependent on economy in time and material. With great progress has been made in economy of design thru the scientific working out of engineering practice and the development of more suitable building material, there is still room for improvement in methods of construction management, especially in the branch of Quantity Surveying.

Economy in Quantity Surveying is dependent upon its scientific development in line with a simple unified plan. Such a plan would coordinate the various branches of construction which are all using different methods of arriving at their objective, namely, to provide a tabulated list of quantities for the primary purpose of arriving at a true cost, and for a secondary purpose of providing a list of the material which is required for the construction of the particular building.

This purpose is accomplished and a plan provided which can be used to advantage in all the various crafts which compose the entire building industry by patterning the various procedures in Quantity Survey on the following set of general rules.

1. Measurements of completed construction work in place are used as the standard of measurement in all cases and a separate Bill of Material is provided to serve for ordering material.

2. Unit of measurement to be the unit (number), lineal, and superficial area; the third dimension being taken as an element of description.

3. Actual measurements are taken, without addition or reduction for the purpose of equalizing or providing for additional labor or cost, or to take care of waste.

4. Measurements are taken to the nearest even lineal feet, and may be taken to the nearest even inch in section measurements. Exterior walls may be taken as outer measurements without making allowances for deductions or additions at corners. Openings may be taken at either opening size or sash and door size. In case, however, there is a deviation exceeding one per cent in the total amount in any one class of measurements, more accurate measurements shall be taken.

Sometimes the drawings give one, sometimes the other. Both must be eventually known, the opening size for laying out the construction, and for sash and door size for ordering. The latter is preferred, but it is more important to conform with the drawings for identification purposes. The Bill of Material must of course have the Sash and Door size.

5. Measurements of the members of a structure, or a group of structures, are taken in such manner that they may be segregated by separate structures, separate stories, by different types of construction, and by differing costs, which would necessarily include different thicknesses or widths.

6. Abbreviations in general use or in accordance with the American Institute of Architects Document No. 172 (Piling System of Building Materials and Appliances) may be used.

7. A Quantity Survey should not include drawings or sketches. Reference should be made to the drawings of the architect or engineer, and it may be advisable to get the architect to furnish details essential for record or reference in such form that they

may be separately printed and attached to the Quantity Survey.

The Quantity Survey compiled in accordance with this set of measurements, providing the description is adequate, gives all the data on nearly all construction work that is necessary for one who has proper cost records to accurately price the work.

A further step is necessary when material is to be ordered. The measurements of the Quantity survey, when not in the form of material, are developed into a Bill of Material conforming to the usual trade requirements. This means that our Quantity Survey used for pricing gives the walls in terms of superficial measurements, square foot area; it does not give the number of brick or the yards of mortar. This information is to be found in the Bill of Material. One is the instrument used for the purpose of arriving at cost, the other that used for ordering.

Masonry construction in either brick work or stone work may involve a great number of different kinds of additional labor, especially in exterior wall construction for the purpose of ornamentation. These are taken care of by the notation, "extra on 17-inch face brick wall," etc., giving the description of the extra labor and reference to the drawings in such a way that identification may be made.

Care should be taken to avoid as much as possible the enumeration of extra labor if it can be included in the main items listed.

Segregation: In segregating by stories it is customary to take of the work for basement and foundations to first floor level, and for each succeeding floor for all construction contained between the floor levels. Sometimes we find there are several different floor levels for a single story; in such a case the principal level is taken as datum, and all other measurements are taken to this datum regardless of whether they come above the finished floor or not. Another method may be used in certain cases. The building may be divided into different units, and the levels of the finished floors taken as the line of segregation, even though they may differ in elevation.

Basic Measurements: There are three main divisions in every building structure into which the entire structural part of the building and much of the finish may be separated, and the basic measurements compared in this manner, it will greatly simplify the take off. They are:

1. Floors, ceilings, roofs and all horizontal members.
2. Exterior walls.
3. Partitions.

In taking off these three classes of construction it is also necessary to list the respective openings contained within them.

It is important to total units and lineals as well as superficials.

In starting a take off it is good practice to begin at a certain point on a plan. A logical order is to start at the upper left hand corner and proceed as in reading a book, to the right and downwards.

Floors, Ceilings, Roofs and All Horizontal Members: Floors are taken off to outside measurements. The basic measurements form an accurate set of figures of lineals and superficials, and duplication in take off is avoided. The structural measurements are these basic measurements less the openings for stairs, elevator shafts, etc.,

and with the lineals of walls and partitions multiplied by the thickness deducted in addition give the quantity for the interior finish. Ceilings and roofs, if flat, are equivalent to the floors below them; if pitched, arched or vaulted, the flat horizontal measurement is taken, multiplied by the proper constant, give the surface area. Lineal measure of exterior walls multiplied by overhang must be added for pitched roofs. The different segregations added together must equal the result of the extreme over-all dimensions within one per cent, or corrections should be made. This method of checking makes large errors in take-off nearly impossible. The rule of unit the square for everything can usually be checked mentally and avoids useless splitting of hairs.

As we are not considering concrete as masonry construction, we are limited to certain types of floor construction where clay tile is used, and to brick flooring and paving.

The foot, lineal or square, should suffice as the unit of measurement until such time as the metric system may be adopted. It is customary to measure roofing by squares of 100 feet, paving by yards of 9 feet, but we should be consistent, pointing off to the hundredth place, and making our unit the square for everything in superficial area.

How Many Brick to a Foot: There can be only a certain definite number of brick of a known size, laid with a specified thickness of a joint, in a given space. Quantity Surveyors should be scientific and deal only with actualities. There is no room for argument as to how many brick should be figured for a given area of floor, wall, or partition. That is determined mathematically by the thickness of the members, the size of the brick, the thickness of the joint, and whether the brick are laid on edge, side or on end.

Exterior Walls: The measurements for the exterior walls when totaled correspond with the actual perimeter of the building; in detail they coincide with the measurements taken for the floors. The length of the building corresponds with the length of the wall on that particular elevation and the width of the building corresponds with the length of the elevation abutting. Twice the length of the building plus its width, with the sum of indentations added, gives the total perimeter. Corners may be disregarded, as a rule, and still keep within the allowance of one per cent area but, if it is desired to obtain absolute accuracy in arriving at the cubic contents for the Bill of Material, projecting corners must be deducted, and indented corners must be added. The perimeter multiplied by the height represents the exact superficial area, and is used for structural and finish measurements if within one per cent accurate.

Measurements may be taken under a description based on a greater thickness of wall. In this case it is necessary to add the amount of projection when exterior surface is measured, such as the quantity of pointing and cleaning, unless the amount is less than one per cent.

The description states the kind of brick, the mix of the mortar, the thickness of the joints, the method of pointing and cleaning and if the work is a veneer the description should state whether it is on wood or concrete, and the kind of anchors or ties to be used.

All extras in the form of additional cost of labor required for corbels, channels, skirlings, etc., which must be additional cost, must be measured and listed in units, lineals or superficies. The lineal feet of the side of projecting pilasters and panels must be given, also the lineal feet of reveals.

Partitions: The partitions should be taken off running all the way through in one direction, and between partitions in the other direction. This will give the structural work accurately and an excess in finish amounting to two-twentieths the section area of the partition for each four-way intersection and once the section area for each three-way intersection. This may be disregarded if it amounts to less than one per cent.

Openings: All openings should be totaled for deductions, and in the take off they should be arranged in the same order as the take off of the walls and partitions. No deductions should be made of the nature of the work from which they are to be deducted, so that deductions may be made from the right quantities.

While it is true that in many cases openings be much or more to leave an opening in brickwork, the quantities are necessary in order to calculate the Bill of Material accurately, and even in pricing the work from the Quantity Survey it is important to know the number of openings and the relation of area in openings to the entire surface. It is a matter of adjustment of pricing methods to a more accurate basis.

Allow Tile and Gypsum Blocks: Hollow tile construction is taken off in the same general way as brick. It is also necessary to take the lineal feet of lintels from the measurements of the openings, which have a total for lineals as well as for area.

The Bill of Material lists the tile as they are to be ordered, allowing for waste and breakage, and taking care of the different types of interlocking tile, special shapes for reveals, wire mesh for reinforcing, mortar, and concrete aggregate, cement and reinforcing for lintels.

Architectural Terra Cotta: As the cost of architectural terra cotta varies greatly from the number of pieces to be made from each model, it is necessary to list not only the superficial cost on setting terra cotta, but also the lineal feet or number of units of all lintels, copings and all special ornamentations.

The usual method used by the general contractor in arriving at the labor cost on setting terra cotta is to cube up over-all dimensions and allow about 70 pounds to the cubic foot, extend to tons and price by the ton. This method can be improved on by listing in units, lineals and superficies.

The terra cotta manufacturers, however, will require a detailed list prepared by an experienced terra cotta detailer or will get one out themselves before they bid, from the architect's drawings. If this is undertaken by the Quantity Surveyor, he must be an expert in this line.

Cut Stonework: In general, what applies to architectural terra cotta, also applies to stonework. Here we have the cost of the rough stone as it comes from the quarry, the cost of machine cutting and polishing, the cost of hand cutting and hammering, carving and the cost of erection.

With all this to be considered in order to get exact prices, all information must be furnished, and this can be done only by detailing, and listing every piece. It is the work of a specialist.

Artificial Stonework: The Quantity Survey of artificial stone does not differ in principle from that for the cut stone and terra cotta. In both cases crafts the basic measurements are valuable for approximate costs and to

give a perspective of the requirements or a check on the totals, and are an improvement on usual rule of thumb methods, but exact prices can be obtained only by detailing. These details should be prepared under the supervision of the architect by a qualified specialist, and furnished with the drawings. Too often this duty of the architect, just as that of furnishing efficient and economical mechanical engineering drawings and specifications for the benefit of the owner, is omitted and left to the contractors, with the result that the owner may pay more or get less for his money than he would if his interests were properly protected.

The Quantity Surveyor should not be called on to furnish structural or mechanical engineering, or to detail stonework as part of his duty in furnishing Quantity Survey Service.

Marble and Tile Work: Marble and tile work are generally considered separate trades, and therefore will not be discussed at this time.

Miscellaneous Items: There are a number of items which can be included in the description for the structural work, and omitted from the Quantity Survey listing. This means that allowance should be made in the pricing of the structural work to cover them. They should be taken care of in the Bill of Material, when material is involved. Some of these items are bonds, joints, and pointing, cleaning, reinforcements, mortar color, clamps and anchors, pointing.

There are certain items which must be specially listed such as flues and flue linings, fireproofing, fire stopping, arches, thimbles, chimney pots, raggle blocks, fireplaces, fireplace linings and hearths.

The simple rule for all these items is to give them separate listing in the Quantity Survey if necessary to cover an added cost; but to omit listing them if mention in the description will assure allowance being made for their cost when the principal work is priced.

Some items involve extra labor only, such as the many types of corbels, mouldings and ornamentation. If so, they should be listed in the Quantity Survey as extra labor, and they are omitted in the Bill of Material, unless extra material is required.

Document 172: There should be a revision of the Filing System Document 172, to conform it to general use for Quantity Survey and Cost Accounting purposes. As a Materials Catalogue Filing Index it does very well, but it is too bad that its compilers did not visualize its possibilities as the basis of a more extended use, and make it less complicated and more in accordance with the customary segregation of the different crafts.

CANNOT LIEN U. OF C. BUILDING

What courses are open to a sub-contractor to secure collection of moneys due him on account of a contract on University of California construction?

"Mechanics liens have been filed against the University work but the Attorney for the Regents contends that such liens cannot constitute a lien against State property," says L. A. Nichols, Comptroller of the University. "More frequently we have received notices of stop payment and it has been the practice of the Regents to co-operate with the sub-contractors in withholding the amount due pending a settlement of the case by the contractor. It has been the practices of the University for years to see that all obligations of a general contractor are properly met."

PRIVATE ARCHITECTS FOR STATE BUILDINGS

Selection of private architects to speed California's \$5,000,000 program of public building is expected to result from a conference last Tuesday attended by Governor James Rolph Jr., other state officials and Frederick H. Meyer of San Francisco, president of the northern division, state board of architecture.

"It is our intention," said the governor, "to expedite this building program as much as possible, so that it may be of practical benefit in alleviating unemployment."

"The private architects will supplement the usual work of the state division of architecture in order that the plans and specifications may be prepared as early as possible for the letting of private contracts."

The governor stated that the architects are going to be chosen on the basis of merit only, and not out of any political consideration.

"We will select only well-qualified architects," he said. "They will be responsible men and those only who can be held responsible."

PREVAILING WAGE AND 8-HOUR LAW IS UPHELD IN NEW YORK

The validity of the act passed last year by the New York state legislature providing that the eight-hour law and prevailing wage rate law should apply to all grade-crossing elimination work performed under the \$300,000,000 state bond issue was upheld in part by a decision handed down Jan. 2 by Justice Ellis J. Staley of the state supreme court, according to Engineering News-Record.

The law was held valid in so far as it applies to private contractors on grade-elimination work, but was held invalid concerning employees of railroads on similar work on the ground that railroad employees are already subject to wage and time restrictions imposed by acts of Congress.

Suits to test the constitutionality of the law have been brought by all of the railroads operating in the state, declaring that the act would increase the cost of grade separation, of which the railroad pays 50 per cent. In a lengthy decision Justice Staley establishes grade-crossing elimination work as public work and therefore subject to acts of the legislature.

An appeal will probably be taken.

SEATTLE PAVING WORKERS FILE WAGE SCALE WITH COUNCIL

Organized paving workers in Seattle have filed with the city council through J. H. Coulson, secretary of Street Pavers' Local No. 440, a list of wage scales and working conditions during 1931.

A continuance of the eight-hour day is asked with a five-and-a-half-day week.

A wage of \$9 is asked for manhole and catchbasin men, cement finishers, dummy men and ribbon setters. Roders, sloat men, spreaders and mixers ask \$8 a day. Roller men, concrete wheelers, curb men, dummy helpers, ribbon helpers, and fine subgraders, ask \$5.50 a day, while all other laborers on paving jobs will demand \$5.60, the same wage now paid building laborers, compared with \$4.50 paid ordinary labor.

THE OBSERVER

What He Hears and Sees on His Rounds

The city trustees of Crescent City will shortly enact an ordinance requiring that all contractors on public work employ local labor wherever possible.

"Don't bid too low," says Thos. D. Hunt, county engineer of King County, Washington. "The county, city or state doesn't want work done for nothing nor at prices that jeopardize success."

Contractors, particularly those engaged in public works construction, should memorize that advice.

Uncle Sam finds it profitable to build now. In answer to a call for bids to erect the Santa Ana postoffice the Treasury Department received 34 figures, the lowest being \$148,710, and the highest \$196,400. The second low bid called for \$149,000, the third \$152,450 and the fourth \$153,000. The remaining bids ran closely between \$154,000 and \$170,000.

Repeal of the Mattoon act, under which virtually all public improvement projects are authorized, is sought in a bill introduced in the assembly by Ed L. Head, San Diego, formerly of Sacramento. A series of other bills affecting the Mattoon act are pending before the legislature.

Building and construction work generally took first place in 1930 as a consumer of steel, forcing the automobile industry into second place from first position which it occupied in 1929. This was shown in an analysis of steel consumption recently published by the Iron Age.

The compilation was based on returns from steel companies which produced 98 per cent of the estimated total for the entire steel industry.

The building industry was the largest user of steel in 1927, but was displaced by the automobile industry in both 1928 and 1929. The railroads were the third largest users of steel in 1930, having occupied second position in 1929.

The executive council of the American Federation of Labor in session at Miami, Fla., Jan. 14, adopted a resolution urging the immediate placing of federal employes on a five-day week basis to relieve unemployment. The resolution said the government should keep step with private employers who already have done so and immediately inaugurate a five-day week for government employes.

To expedite the letting of contracts undertaken in connection with the emergency construction appropriation bill, the Corps of Engineers is insisting that bidding be limited to contracting firms with sufficient capital and plant to start operations immediately, says Paul Wooton, Washington correspondent for Engineering News-Record.

District engineers have been reminded that the work is being undertaken in order to accelerate such construction projects as will increase public employment. They have been instructed to reject a bid unless the bidder can show that he has the necessary capital, equipment and experience and that he is not already obligated for the performance of as much work as he will probably be able to do during the period contemplated by the advertisement.

A profit on a project for the contractor is justifiable, and the tendency of contractors to bid against each other instead of on the job adds to the grief of both engineer and builder, decreasing the fair profit and making performance of the contract a question, says Major O. A. Piper, chief assistant city engineer of Seattle.

"The public demands service from a contractor on city, county and state work, but this cannot be given if the work is being done below cost," Maj. Piper declares. Explaining the relation of the contractor to city engineer, he points out that experience and cooperation alone can spell success for each, assuring good work, a fair profit, and the job completed on time.

"Engineers as a whole heartily approve of the prequalification of contractors," Engineer Piper declares. Such a law, he says, would assure public work being done by capable contractors with a background that assured the best service.

The penalties and liquidation damages attached to failure to complete a job on time are an important consideration of a contract, but are rarely taken seriously until the occasion arises to actually exact the penalty and damages, Major Piper says. He states that contractors should remember such clauses are enforceable and should be considered step by step on the work being done.

Colonel Walter E. Garrison, state director of public works, has requested contractors to employ fifty California residents as labor in the state's \$5,000,000 public building program as far as possible.

"This building program is mapped and is being speeded primarily as an aid in relieving the unemployment crisis in the state," remarked Garrison. "Therefore, to realize this objective, it is necessary that residents of the state be employed on the jobs."

"While it is not legally possible for the state to restrict labor used by private contractors to Californians, we may decline to consider bids on future jobs submitted by contractors who persistently refuse to give California labor the first opportunity of employment."

Definite limitation of debts on street improvement projects is called for in a bill introduced by Assemblyman Walter J. Little of Santa Monica and other members of the Southern California delegation. The measure would prohibit municipal legislative bodies from going ahead with public improvement undertakings when the proposed cost totals more than 50 per cent of the actual value of property involved.

Public work contracts entered into by the city of Portland, Oregon, will carry a clause that will insure maintenance of the pavements for five years, the city council having passed an ordinance inserting the clause in all contracts hereafter. The ordinance carried an emergency clause and was urged by Commissioner Barbur because of numerous contracts that will be before the city shortly.

The clause provides that the discovery of a defect in a street pavement will be accepted by the contractor as prima facie evidence of a defect in material or workmanship,

despite the fact that the work was done under city inspection and accepted by the city.

While only two contractors have refused to maintain their work for five years, some bonding companies have taken the stand that when the city inspects the work and accepts it the city then must prove defective workmanship. The new provision is intended to meet that position.

CONTROL BILLBOARDS VIA VOLUNTARY ZONING

A proposal for voluntary zoning of portions of rural highways having high scenic value against defacement by billboards, posters, hot dog stands, filling stations and other forms of wayside commercial enterprise was advanced by Herbert U. Nelson, of Chicago, executive secretary of the National Association of Real Estate Boards, at a national conference on roadside business and rural beauty held in Washington, D. C.

The proposal was put forth as a method of conserving to the public both aesthetic values and proper commercial values along rural highways. It is novel in that it obviates the necessity for arbitrary action by state authorities, and in that it gives owners of property abutting scenic highway a quid pro quo for the property rights they would give up where such zoning was put into effect.

The plan proposes that an enabling act be passed by the various states under which there might be set up in connection with the state highway department a special zoning board for non-urban regions of the state. This board would have the right to zone any stretch of roadway as a scenic region upon petition of 75% of the owners of abutting property. Along the highway so zoned various commercial business of all kinds would be banned, not only on the highway itself but on abutting property, except at such intervals as may be established to meet public necessity and convenience.

The plan proposes further that on roads along which the owners of abutting property voluntarily forego the commercial use of their properties in this manner the state highway commission would undertake a definite program of beautification, through the planting of trees and shrubs, through care that bridges erected should harmonize with the general scenic effect, through the adaptation of the highway to the natural contours of the landscape, and through similar measures which would aid in the conservation of the recreational values of the region.

A total of \$30,974,030 may be spent in the State of Washington for highway work during the 1931-33 biennium if the state legislature approves the road budget submitted by Governor Ronald Hartley. Of this total \$13,374,030 is contained in the budget, the remainder will be raised by the state to spend on lateral highways and by the various counties. Expenditures by the counties will probably total \$4,000,000, and for lateral work by the state about \$5,000,000 will be expended. Also in the total \$30,974,030 federal aid is contained which will be spent by the state highway department. Work planned by the state with the \$21,974,030 asked of the legislature includes 146 miles of paving, 610 miles of grading and surfacing and 1699 miles of rolling during the next two years.

HERE—THERE EVERYWHERE

James A. Farrell, president of the United States Steel Corporation, declares that in his opinion the peak of the financial depression had been passed thirty days ago and the pendulum of industrial activity was now swinging back to normalcy. Mr. Farrell asserts that "the last thirty days have given ample evidence of a considerable increase not only in the business of the steel industry, but in collateral and unrelated lines."

The ensuing year will be elected at the January 26 meeting of the Sacramento Builders' Exchange, it is announced by Secretary Patterson. The meeting will be addressed by a speaker yet to be selected. Refreshments will be a part of the program.

The State Senate adopted unanimously a resolution by Senator Roy Fellow, San Francisco, urging congress to adopt legislation consenting to the construction of a bridge across San Francisco Bay from Rincon Hill by way of Goat Island to Alameda County. This route was declared by Senator A. H. Breed of Piedmont to be the most practical and the least expensive to span the bay. The project calls for an expenditure of \$72,000,000. A toll bridge would be built.

A. F. Davis of the Lincoln Electric Company is scheduled to provide a paper revealing the latest steps made in electric arc welding at the Western Metal Congress to be held in the San Francisco Municipal Auditorium February 16-20.

By a vote of eight to one the Seattle city council decided to place upon the March election ballot a proposed charter amendment that will empower the city light department to do its own engineering work. Sponsors of the proposed amendment declare that city engineering work in connection with city light development is handled by that department it will be facilitated.

F. P. Basler, operating the Matthews Construction Company of Sacramento, has instituted suit in the Sacramento Superior Court to recover \$9,894.21 from C. Miles and the American Surety Company. Basler claims the amount is due for equipment which he rented to Miles to do road construction in Mono County.

Recognizing the seriousness of the present unemployment condition of the country, and in order to alleviate as much as possible that situation, the plumbers of Long Beach have inaugurated the five-day week. Negotiations to this end have been under way for some months between the contractors and the journeymen and an agreement was reached recently whereby the work week was shortened to five days.

Clyde Hickman has been elected president of the Long Beach Builders' Exchange. Other officers are J. H. Pelkey, vice-president; A. G. Motsch, secretary; W. M. McGrew, B. H. Horik and E. L. Card, directors; Eugene C. Eradbury, executive secretary.

Samuel J. Humes, director of the Washington State Highway Department, urges that contractors keep the wage scale up. The present is not the time to cut wages. Hume says labor, even though work is scarce and labor plentiful.

ALONG THE LINE

Raymond H. Holtzman, founder of the Shelton-Holtzman Lumber Company, and later manager of the Ely Lumber and Coal Company of Ely, Nev., died in Glendale, Cal., Jan. 16. He had been ill for several weeks. The deceased was 63 years of age and had been prominent in business circles of Nevada for more than twenty years.

Major William S. Post, designing engineer of the Los Angeles County Flood Control District, has been appointed chief engineer of the irrigation service, United States Bureau of Indian Affairs, according to word received by Chief Flood Control Engineer E. C. Eaton. Major Post, who is now in Washington, has been engaged in designing a new type of rockfilled dam for the San Gabriel river.

Stephen Henry Reno, building contractor and a resident of Berkeley for 40 years, died in that city Jan. 15 following a brief illness. His widow and one daughter, Florence Helen Reno, survive.

J. B. Lippincott of Los Angeles has been retained by the city of Long Beach as consulting expert for the water department.

Nevada State Highway Commission has adopted a highway building budget involving the expenditure of \$2,988,447 for the year 1931.

C. H. Purcell, state highway engineer, has been appointed engineer for the proposed San Francisco Bay Bridge, according to an announcement of the State Department of Public Works.

John F. Collins, Oakland contractor, has filed a schedule in bankruptcy in the Federal Court, San Francisco, listing debts at \$77,236 and assets at \$37,200.

H. A. Van Norman, formerly chief water engineer for the city of Los Angeles, has been appointed general manager of the entire department of the municipally-owned water and power department by the Municipal Water and Power Commission.

SEEKS TO AMEND ANTI-TRUST LAWS

The California State Chamber of Commerce has adopted a resolution urging the amending of the anti-trust laws of the U. S., declaring that the present laws are involved in so much uncertainty respecting their interpretation as to impede business and industrial progress, and are so restrictive in their nature that they encourage and foster an unbusinesslike, unfair and oftentimes ruthless competition which results in great hardship and losses to producer, wage earner and consumer alike, and their enforcement has been particularly detrimental to and destructive of our natural resources, both State and National.

The United States Chamber of Commerce will be asked to take such action as may be proper to procure such amendments and copies of the resolution adopted by the California body will be forwarded to Senators and Representatives of the state in Congress for their attention.

TRADE NOTES

Darwin Meisnest, sales manager for the Pacific Coast Cement Company of Seattle, has been elevated to the position of vice-president in charge of sales, it is announced by E. C. Ward, president of the company.

A. L. Gladding, formerly of Gladding, McBean & Company, has resigned his position with that firm and is now associated with his two brothers, Chandler and Charles Gladding, in Gladding Brothers, clay products firm of San Jose. The three Gladding brothers have been in clay products manufacturing for years, having been brought up in the business. One and one-half years ago they purchased the Kartschoke Clay Products Company in San Jose and have since operated it as Gladding Brothers. The firm manufactures vitrified clay sewer pipe, roof tile, brick and terra cotta. The plant is located at Third and Keyes Streets, San Jose.

Indiana Limestone Co. of California, Ltd., with headquarters in San Francisco, has filed articles of incorporation with the county clerk. Directors are A. E. Preston, V. E. Fay and A. M. Johnson.

PHILIPPINE WOOD TRADE IN INFANCY

In a review of the Philippine hardwood situation, W. G. Scrim of Los Angeles, president of the Philippine Mahogany Association, says:

"The trade in Philippine woods is still in its infancy as most of the woods used so far are the Philippine mahogany and Aplong varieties. Woods, such as Narra, Tindalo, Acti and many others, are ideal for furniture and cabinet purposes, while for automobile and other construction purposes there are available such woods as Yacal, Guijo, Mungachapuy, etc. A favorable decision by the Federal Trade Commission on the nomenclature of Philippine mahogany would stimulate trade in this wood as the investigation of the last five years had led a number of potential users to hesitate about using the term 'Philippine mahogany,' fearing that they were liable to prosecution by a government body. Hearings by the Federal Trade Commission are about completed and we shall soon know whether the term is applicable as a botanical or commercial term. Generally speaking, the state of business can be summed up as follows: Business, fair; stocks, low; prices, fair."

Construction of a veterans' hospital to care for former service men employed on the Boulder-Hoover Dam is asked by George Malone, Nevada State road commissioner who is in Washington to confer on the matter with General Frank T. Hines, administrator of veterans' affairs. The Nevada, who wants the hospital built near Las Vegas, is seeking authorization for immediate construction, on the grounds that more than one-third of the workers to be employed on the dam project will be war veterans. At present, there is no veterans' hospital within over a day's travel, he says.

TRADE LITERATURE

Details regarding pivoted industrial windows and projected windows of the commercial and architectural type are given in two recent bulletins of the Campbell Industrial Window Co., Inc., Pershing Square Building, New York City.

Type SSU centrifugal pumping units, in which a single ball-bearing-mounted shaft serves both an electric motor and a centrifugal pump, are described in bulletin 1647 of the Allis-Chalmers Mfg. Co., Milwaukee, Wis.

Engineering data and price lists on continuous steel flooring are contained in a folder compiled by the Irving Iron Works Co., Long Island City, New York.

Recent publications of the engineering and research division, National Sand & Gravel Association, Munsey Building, Washington, D. C., are as follows: Circular 7—"Effect of Soft Particles of Coarse Aggregate on Strength of Concrete," by W. J. Emmons; circular 7—"Effect of Addition of Finer Sizes to Gravel on Strength of Concrete," by Stanton Walker; and circular 8—"Effect of Grading of Gravel and Sand on Voids and Weights," by Stanton Walker.

STATE BUILDING CODE OPPOSED BY PORTLAND REALTORS

Disapproval of the proposed state building code was expressed by members of the Portland Realty Board in a resolution presented by Henry E. Reed, chairman of the committee on legislation. It was decided to refer the resolution to the proper committee of the state legislature to give them the board's opinion on the matter.

The decision was taken following a report submitted by Reed on behalf of his committee and concurred in by the committee of taxation on which A. C. Callan is chairman.

The report, which contained a lengthy survey of the proposed code stated that while it might be desirable that Oregon should have a state building code providing minimum requirements as to structure, plumbing and electricity, such a measure should be drafted by a representative state-wide committee as was contemplated by the legislative resolution of 1927.

As the proposal stands now, according to the report, the sponsors of the code are not sufficiently representative of the sentiment of the needs of the state; the code as proposed would be confusing to the building industry; it provides for amendment without notice to certain municipalities; it grants legislative powers to the labor commissioner and his advisory committee; it would cause needless expense, and the penal provisions are too drastic.

The state would be authorized to continue for two years with its negotiations with private capital for the construction of a dam on the American River at Folsom under a bill introduced in the senate by Senator J. M. Inman of Sacramento.

The bill is identical to the present law, which has been in effect for four years, except that the date is extended to 1933 to allow further negotiations.

Provision is made for the reversion of the works to the state at the end of fifty years. The private concern would hold title under a lease.

SURVEY REVEALS
17% DECREASE IN
1930 CONSTRUCTION

A decrease of 17 per cent in the volume of construction performed in the United States during 1930, as compared with the previous year, is reported in the current issue of The Constructor, official publication of the Associated General Contractors of America. Charts prepared by the association show the average monthly performance during the year, as determined by shipments of basic construction materials, at index number 163, as compared with an average of 196 for the previous year and 188 for the preceding five-year period. December construction volume dropped to index number 123, a decrease of 29 per cent from the previous month and 27 per cent less than in December, 1929.

As yet there is no statistical indication that the bottom in construction activity has been reached or that the upturn is just ahead, according to "The Constructor's" editorial comment. It points out that in all classifications, except those of educational and public buildings, reports of contemplated projects compiled by the F. W. Dodge Corp. continue to show lower totals than those of the corresponding months a year ago. Any future rise in construction activity will be needed for several months by a notable rise in the reports of contemplated projects, it states, and since this rise is not yet in evidence it appears patent that activity in private construction during 1931 probably will not exceed that of 1930.

"The Constructor's" chart shows that despite the fact that the monthly average of wages paid in the industry was higher than in any year on record, with the exception of 1920, the cost of construction in 1930 was the lowest in recent years. After a steady five-month decline in the cost of construction earlier in the year, the cost index remained stationary during the last five months at the low level of 135.4.

Indications of a near record year in contract surface pavement awards are shown in the publication's chart of reports from the Portland Cement Association for the first eleven months of 1930. During this period a total of 137,012,000 square yards was awarded, as compared with 132,201,000 square yards during the same period of 1929. This total was only 2,988,000 square yards less than for the corresponding period during the peak year of 1928 and constituted the second largest on record for the period.

WASHINGTON STATE
ARCHITECTS ELECT

Roland E. Borhek was re-elected president of the Washington State Chapter, American Institute of Architects, at the close of the annual meeting of the organization at the Washington Athletic Club in Seattle, last week.

Other officers elected were: First vice president, J. Lister Holmes; second vice president, Earl N. Dugan; third vice president, Stanly A. Smith; fourth vice president, John W. Maloney; secretary, Lance E. Gowen; treasurer, Albert M. Allen; executive board, three-year term, George W. Stoddard, and for delegates to the Institute convention, Lance E. Goken, Sherwood D. Ford and Nelson J. Morrison.

CONFERENCE CALLED
ON ROAD BUILDING

A series of conferences between members of Congress, from states neighboring California are being arranged by Representative Albert A. Carter of Oakland. These conferences have for their purpose the formulation of plans for road construction and far reaching results are expected from the gatherings.

The California member took the initial step on being informed by officials of the Bureau of Public Roads that the \$50,000,000 recently appropriated by Congress for road building, plus an additional \$50,000,000 was available for immediate use. In making overtures for these meetings Congressman Carter states that he believed more benefit could be secured for the states involved by close cooperation. It is worthy of note that many of the road projects which will come up for discussion will have their terminus in Oakland or the vicinity.

In addition to this the monies released, in the opinion of the Californian, will render material aid in relieving unemployment. About half the money spent will go directly to labor, while another large percent will benefit employees of a number of various industries allied to road building.

STATE PUBLIC WORKS
CHIEF MAKES CHANGES

The first move toward a general shakeup in the State Department of Public Works was made last Tuesday by Col. Walter C. Garrison of Lodi, newly-appointed director of the department.

Garrison announced the reorganization of rights-of-way divisions in five California cities. These agencies have charge of the purchase of all properties required by state highway and other building operations, involving millions of dollars annually.

The changes follow:
San Francisco—Holloway Jones, in place of George Geiger; John Howard, replacing Morgan A. Sanborn; Herbert Forbes, succeeding W. E. Cattie; Frank P. Webb, replacing Leo J. McCarthy; Harold J. Lorentzen to be displaced later.

Eureka—Phillip C. Eastman, replacing Paul Williamson.
Redding—Leland L. Rose, succeeding L. H. Williams.

Los Angeles—Adolph N. Sutro, succeeding Harold D. Dieg.
Sacramento—George Paulich, succeeding A. M. Nash; Charles S. Smith, replacing John W. White; Bradford Perry, replacing J. F. O'Hara.

COMBINE FORCES
TO SUBMIT BID ON
HOOVER DAM PROJ.

Siems, Helms, Inc., St. Paul, Mo., contractors, with branch offices at 206 Sansome St., San Francisco, has formed a corporation with two other concerns to bid on the Hoover dam at Boulder City, Nevada. It is announced by Ralph Christofferson, San Francisco manager for the firm.

The corporation's bid will be submitted about March 1 to the Denver, Colo., offices of the Reclamation Bureau, Christofferson said.

The other concerns in the combine are: A. Guthrie & Co., also of St. Paul, and Woods Bros. of Lincoln, Nebraska.

The Siems, Helms Co. laid the foundations for the Southern Pacific bridge between Martinez and Benicia.

EMBRITTLMENT IN BOILERS INVESTIGATED

Since the early days of steam boiler operation the industry has been encountering various types of boiler failures. A number of these have been eliminated, but there is one type of crack which still occurs. This is the cracking which takes place in the riveted areas of the boiler going from rivet hole to rivet hole, often unseen and undetected until a dangerous condition exists.

The purpose of the investigation reported in Bulletin No. 216 of the Engineering Experiment Station of the University of Illinois was to secure information relative to the occurrence of this type of cracking in boiler plate, in order to determine the cause of the difficulty and to devise methods of preventing it. The data were obtained from power plants which have experienced cracking in steam boilers, as well as from tests made in the laboratory.

The investigation was begun five years ago, and results were previously published in Bulletin No. 155 in 1926 and in Bulletin No. 177 in 1928. Since editions of these two bulletins have been exhausted it seemed desirable to include in the present bulletin a large part of the material already published in the previous bulletins together with the new material obtained. This bulletin, therefore, contains the complete results of the full five years' investigation of boiler plate embrittlement.

In addition to recording some more recent instances of embrittlement in steam boilers and caustic digestors, the new material deals chiefly with a study of the solubility of embrittlement-inhibiting agents in boiler water and of the concentrations of solutions in capillary spaces, as well as tests of inhibiting agents other than sulphate or carbonate.

Copies of Bulletin No. 216 may be obtained without charge by addressing the Engineering Experiment Station, Urbana, Illinois.

ARIZONA SUIT ON BOULDER DAM WILL BE HEARD MARCH 9

Setting of March 9 by the U. S. supreme court as the date for hearing the motion of the Federal government and the six states in the Colorado river pact to dismiss the suit of Arizona to block the building of Hoover (Boulder) dam, indicates that the legal phases of the project will be settled before the appropriation to be made by Congress for the coming fiscal year becomes effective on July 1.

The technical ground on which dismissal of the suit is asked is that in violation of the constitutional provision of the Act of Congress authorizing the construction of the dam Arizona erred in not making the Federal government a party defendant to the suit, since it is vitally concerned.

Issues raised in connection with the motion to dismiss the suit, however, are couched by the court on the constitutionality of the law providing for construction of the dam, on the validity of the pact between the six Colorado states—California, Nevada, Utah, Colorado and New Mexico; on the navigability of the Colorado river below Hoover dam, and on the powers of the government and its officials to proceed with the project.

Eustacia Celia will operate in San Francisco under the firm name of Marina Construction Company, according to articles filed for record with the county clerk.

METHOD TO CUT OFF PILES UNDER WATER DESCRIBED

Marine contractors are often faced with the necessity of pulling or cutting off wooden piling at the level of the bottom in order to clear a river or harbor for navigation purposes, says S. Standish of the Standish Engineering Corp., of Chicago, Ill., in Engineering News-Record. In many instances the cost of pulling the piling is excessive, especially where there is considerable penetration. The underwater saw can be used, but this, while much more economical than pulling, requires a special rig. The old method for cutting off piling with dynamite was to encircle the pile with a heavy wire ring, attach several sticks of dynamite to this ring and then lower it to the bottom where it was exploded. The difficulty with this method lies in the fact that two or three shots are usually required, and often obstacles, such as spikes, bolts, or knots on the body of the pile, prevent the ring from slipping all the way down.

The writer has found through experience that the simplest way to cut off wooden piles with dynamite is to prepare a bomb consisting of three or five sticks of dynamite which are grouped a corresponding number of round steel bars of about the same length. The bomb is held together with several turns of wire. If this bomb is lowered in the water so that it rests on the bottom within 3 ft. of the pile, the explosion will cut the pile off clean at the bottom, as the bars act somewhat in the nature of shrapnel.

EFFECT OF CERTAIN FURNACE GASES ON ENAMELS REPORTED

The detrimental effect of certain furnace gases on enamels is fully realized, but practically no data are at the disposal of the enameler. The term "gassing" is quite generally heard among plant men, and it is usually associated in thought with the presence of sulphur gases, probably correctly so in most cases. That the presence of reducing gases is not favorable for the production of good enamels is also a generally accepted fact.

Bulletin No. 214 of the Engineering Experiment Station of the University of Illinois contains the results of an investigation to determine the effect of furnace gases on enamels for sheet steel. The compositions of the enamels used in the investigation were typical of those used in the industry. Tests were made to determine the effect of sulphur dioxide, nitrogen, carbon dioxide, oxygen and steam on enamels; also the effect of unburned city gas and of products of combustion of city gas on enamels.

The conclusions drawn as a result of the investigation are as follows: Very small amounts of sulphur dioxide, such as are sometimes found present in the atmosphere around industrial districts may be deleterious to enamels; the composition of sheet steel cover coats has an important bearing on their resistance to sulphur attacks; oxygen is a necessary constituent of the furnace atmosphere if an enamel of the best quality is to be obtained; the presence of reducing gases in the furnace atmosphere causes blistering.

Copies of Bulletin No. 214 may be obtained without charge by addressing the Engineering Experiment Station, Urbana, Illinois.

ENGINEERING SOCIETY'S EMPLOYMENT SERVICE
 Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 716, 67 Post Street, San Francisco. (Phone SUtter 1844).

R-3309-S ENGINEER, mechanical or electrical, not over 30, with 3 to 5 years' experience on hydro-electric plant operation for service and testing. Must have mechanical skill, agreeable personality and single. Salary about \$175 month and expenses in field. Apply by letter. Headquarters, San Francisco.

K-332-W 7934-C-S PROFESSOR of printing for school of industrial engineering; must be a college graduate with broad experience in printing. Position will involve research and application to courses in craftsmanship training. Salary \$5,000 a year. Apply by letter with full details of experience, references and photo. Location, East.

R-3459-S ELECTRICAL ENGINEER, graduate under 35 years of age, with 2 years G. E. or Westinghouse factory test training and some field experience for power plant safety and economy inspection. Salary during preliminary training period \$150 month with increase on the road. Apply by letter. Headquarters, Colorado.

R-3429-S ENGINEER, preferably mechanical, 35 to 45 years old, with forceful personality and ability to handle men, for production manager of company operating several scattered plants in California. Must have good record as executive. Salary \$5000-6000 a year. Apply by letter with brief of experience and photo. Headquarters, San Francisco.

R-3303-S ENGINEER, preferably mechanical or chemical graduate, with 5 to 10 years' experience including considerable application of thermodynamics to solution of heat exchange problems as found in oil refinery equipment. Must have executive ability. Apply by letter with details of experience, references and photo. Salary \$100-250 per month to start. Location, Northern California.

R-3456-S MECHANICAL ENGINEER graduate, not over 32, with some practical knowledge of machine design for plant equipment development. Good opportunity for man with constructive ideas and initiative. Salary \$175-225, depending upon man. Location, San Francisco.

FREIGHT TERMINAL FOR NEW YORK WILL COST \$13,000,000

The Port of New York Authority has announced that it has completed negotiations with the twelve railroads service the port district for the operation of the \$13,000,000 union freight terminal which it will build on the block bounded by Eighth and Ninth Aves. and Fifteenth and Sixteenth Sts., and that the railroads have signed an agreement to use the building as their central point in the delivery and collection of less-than-carload freight bound to and from New York.

Under the agreement it is stipulated that the railroads shall organize an agency to operate the terminal, and the Port Authority pledges itself to build other terminals if the first experiment proves successful and need for additional facilities arises.

ELECTRICAL INDUSTRY RESISTS DOWNWARD TENDENCY DURING 1930

While the business and industrial depression during 1930 had an adverse effect on the aggregate output of electrical equipment, says John Liston in the January issue of the General Electric Review, there were certain classes of electric apparatus which resisted the general downward tendency, in comparison with the record activity of 1929, and in fact created new high figures for both the volume and the dollar value of production as compared with any previous year.

In this group were included, railway electric locomotives and electric equipment for street railway and railroad motor cars, electric propulsion equipment for merchant ships, mercury arc power rectifiers and high tension cable. The number of installations of household type electric refrigerators also showed a marked increase.

Developmental work was continued actively throughout the year in the laboratory, the factory and the field, with the result that improvements in design, materials and construction were secured in numerous classes of apparatus all tending toward increased efficiency or economy in the generation, transformation, distribution and application of electric energy for power systems, transportation, communication, industrial modernization and in the rapidly growing field of farm electrification.

Mercury arc power rectifiers installations increased both in number and capacity the largest unit produced being rated 6500 kw., 850 volts, 30,000 amperes. It was designed for use in the production of electrolytic-hydrogen. One railroad applied power rectifiers in all of its substations as the sole source of the supply of energy to its feeder system. This was the first exclusive use of this apparatus for this class of service.

Building construction utilized electric welding to a greater extent than heretofore and 84 cities and towns in the United States were added to the list of those permitting the use of this efficient and silent tool in place of the noisy riveter for this class of work. The tallest building so far by electric welding is the 10-story in height. Automatic welding machines including those applying the atomic-hydrogen process were further improved for industrial use.

In order to facilitate a more extensive use of hydrogen atmospheres in electric furnaces, apparatus was developed for the economical production of gases, rich in hydrogen, from natural gas or illuminating gas. This apparatus can be conveniently located near the furnaces served and can thus form an integral part of an industrial process heating equipment.

A 110,000 kw., 1200 lb. steam turbine generator built for the Ford Motor Company was not only the largest high pressure steam unit so far constructed but also the highest rated generating unit ever designed for an industrial installation.

The requirements of electrical transportation both on land and sea called for a record production of equipment. In addition to the electric locomotives and motor cars produced for the electrification of important sections of large steam railway systems, there was a growing demand for motor and braking equipment for the rehabilitation of street railway rolling stock. Gas-electric buses were used for the first time for interurban service and there was renewed interest in the flexibility and economy of the trolley bus for operation in modern urban street traffic.

In December, the turbine electric liner, "Herbert Hoover" was launched.

She was at that time the largest merchant ship ever built in America and with her propelling motors rated 26,500 shaft horse power exceeded in power rating any electrically propelled merchant ship in the world.

Lighting is still the arch enemy of uninterrupted electric service but laboratory and field investigations with improved recording instruments added greatly to our knowledge of the characteristics of lightning during the year, while the development of Thyrite material made it possible to utilize the data so secured in a practical way for power system protection. The Thyrite lightning arrester has already been installed on systems operating at the highest commercial voltage. Perhaps the most interesting development from the standpoint of future possibilities was the greatly increased application of electronic tubes for purposes other than radio communication. Their remarkable versatility in rectifying, converting, inverting, regulating, measuring and controlling has resulted in numerous applications in substitution for electro-mechanical methods of current control.

Other work with vacuum tubes included tests of apparatus designed to produce artificial fevers by induction and the construction of an X-ray tube for operating at a potential of 500,000 volts or more than twice the maximum voltage previously used.

In presenting a review of these and many other developments which occurred during the year, all the apparatus referred to are products of the General Electric Company. These cover such a wide range that the references will serve as an indication of the tendencies in design and construction as well as the general progress in the electrical manufacturing industry as a whole.

STATE TO GET FUNDS FOR NAT'L FOREST HIGHWAYS

Construction of 210 miles of approach roads to national parks in California, at a cost of more than \$7,250,000 is planned in the Leavitt bill, which will shortly be passed to the Senate for consideration, according to word from Washington.

Under the terms of the bill, which increases the appropriation for national park roads, the biggest project is planned for Yosemite Valley. Approach roads totalling 107 miles at a cost of \$4,050,000 are planned for this area. Others included are: 17 miles of roads at Sequoia National Park, costing \$595,000; 69 miles of roads at Lassen Volcanic National Park, costing \$2,010,000, and 17 miles at General Grant National Park, cost, ing, \$595,000.

The Leavitt bill has yet to pass the Senate, after which funds must be appropriated. The bill alone does not authorize sufficient funds to build all of the roads contemplated, but the funds will be supplemented by moneys spent by the National Forest Service and under the terms of the Colton-Oddie act, passed recently.

COMBUSTION TESTS WITH ILLINOIS COAL

Bulletin No. 213 of the Engineering Experiment Station of the University of Illinois contains the results of com-

bustion tests made with coal from four mining districts of the state of Illinois, two being representative of Northern Illinois coals and two of Southern Illinois coals. The tests were made using one of the boiler units in the University of Illinois Power Plant.

The principal objects of the investigation were to compare the performance characteristics of the various coals as determined by their influence on the overall efficiency, temperature of the flue gases, combustion rate and draft required when the boiler unit was operated at given steaming capacities; and to make a study of incidental factors, such as excess air, ash-pit loss, and flue-gas loss, as influenced by the physical and chemical characteristics of the various coals.

The bulletin includes a description of the plant, a discussion of the methods used in conducting the tests and making the computations, and a discussion of the results obtained. Copies of Bulletin No. 213 may be obtained without charge by addressing the Engineering Experiment Station, Urbana, Illinois.

NEW PORTABLE AIR COMPRESSOR

Ingersoll-Rand Co., 11 Broadway, New York, announces a new portable air compressor with a piston displacement of 500 cu. ft. per minute. This unit not only has a capacity 60 per cent greater than the largest portable previously offered, but follows a type of design that is distinctly different from that of smaller machines. It is designated the Type "XL".

The unit consists of a two-stage, horizontal compressor direct-connected to a 4-cylinder, 4-cycle Waukesha gasoline engine through spiral bevel reduction gears operating on ball bearings.

Two complete water cooling systems are provided—one for the compressor and one for the engine. Separate, automatic lubricating systems also are used. A radiator-type intercooler cools the air between the stages of compression. Regulation is automatic.

The complete unit, with gasoline tank and receiver, is mounted on a one-piece, cast-steel frame, equipped with rubber-tired steel wheels. The steel top is fitted with removable steel side covers arranged for locking.

The Type "XL" is intended for use on jobs which require a considerable amount of air. It will do the work of two or more small portables, with resulting savings in operating costs.

PAVING FIRM ASKS \$7,994.20 IN SUIT

Charging breach of contract the National Pavements Corporation of California has filed suit in Oakland for \$7994.20 damages against the Hutchinson Construction Company.

The action is based on the failure of the defendant to purchase agreed material from the plaintiff in connection with the pavement of East 14th Street between 12th and 23rd Aves.

It is alleged the Hutchinson Construction Company had agreed to pay \$21,296.50 for material, expert service and the paving patent but later cancelled the agreement, the city paying the defendant \$9523.55 for the cancellation.

H. J. Frunrier, San Francisco structural engineer and P. J. Walker, general contractor of San Francisco, have been elected to the Board of Directors of the California State Automobile Association. Both will serve three year terms.

Building News Section

APARTMENTS

Plans Being Figured.

APARTMENTS Cost Approx. \$20,000
SANTA ROSA, Sonoma Co., Cal. 7th
and A Streets.

Two-story frame and stucco apart-
ments (6 apts.)

Owner—P. Gambini and S. Testorelli,
Santa Rosa.

Architect—Wm. Herbert, Rosenberg
Bldg., Santa Rosa.

Bids are being taken from selected
list of local contractors.

Sub-Contracts Awarded

APARTMENTS Cost, \$125,000

SAN FRANCISCO, S Broadway 187

E Webster Street.

Seven-story and basement Class A
apartments (7 apts.)

Owner—Wm. Helbing, Sr., 1310 Lombard
St., San Francisco.

Architect—H. S. Helbing, 1310 Lombard
St., San Francisco.

Contractor—The Helbing Co., 1310
Lombard St., San Francisco.

Concrete—Golden Gate Atlas Material
Co., 16th and Harrison Sts., (Acme
Concrete Co., 666 Mission St., is
pouring the concrete).

As previously reported steel joists
awarded Truscon Steel Co., Call Bldg.,
S. F.; cases and mill work to Builders'
Supply Depot, 390 9th St., S. F.; struc-
tural steel to Judson-Pacific Co., 609
Mission St.; electrical work to Actna
Elec. Co., 1337 Webster St.; lumber
to Loop Lumber Co., Central Basin.

Plans Being Figured.

APARTMENTS Cost, \$175,000

SAN FRANCISCO, N Sutter Street

137 1/2 W Franklin St.

Seven-story and basement class A
steel frame, concrete and wood
joist apartments.

Owner—Mutual Owners Association.

Architect—Jos. L. Stewart, 206 San-
some Street.

Bids are being taken for a general
contract.

Completing Plans.

APARTMENTS Cost, \$175,000

LOS ANGELES, Cal. Detroit St. near

Wilshire Blvd.

Seven-story and basement reinforced
concrete apartments (60x125 ft.)

Owner—Ernest and Elizabeth Mc-
Intyre.

Architect—Fred Sward, Delta Bldg.,
Los Angeles.

Sub-bids will be taken Jan. 26.

Sub-Bids Wanted.

APARTMENTS Cost, \$50,000

OAKLAND, Alameda Co., Cal. East

Ernie St N Mandana Blvd.

Three-story and basement frame and
stucco apartments (48 rooms).

Owner—Louise B. Brain, 3600 Lake-
shore Ave., Oakland.

Architect—Clay N. Burrell, American
Bank Bldg., Oakland.

Contractor—R. G. Roberts, 3001 Ful-
ton St., Berkeley.

Sub-bids are wanted on plumbing,
hardwood floors, heating, insulation,
roofing, the sinks and baths, painting,
ornamental iron and plastering

Construction Started.

APARTMENTS Cont. price, \$11,500

SAN FRANCISCO SE Army and Al-
abama Streets.

Two-story and basement frame and
stucco apartments (4 apts.)

Architect—G. A. Berger, 309 Valencia.

Contractor—J. L. Cunen and F. D.

Martini, care architect.

Architect is taking heating bids. Oil
burning heating system is to be in-
stalled.

CHURCHES

NAPA, Napa Co., Cal.—St. Mary's
Parish Church has voted to erect a
new edifice to replace the present
structure in Randolph St. The church
has \$18,000 available for such a pur-
pose and proposes to raise \$5,000 ad-
ditional to finance the structure. The
following have been appointed a build-
ing committee to secure a site for the
proposed structure: Rev. W. Charles
Pearson, H. E. Boudier, H. S. Davis,
George W. Danforth and C. W. Mer-
win.

FRESNO, Fresno Co., Calif.—Until
January 27, bids will be received by
Rev. F. C. Zahl, pastor, Zion Congre-
gational Church, E and Monterey Sts.,
to erect new church building. Plans
and further information on file at 254
E St., Fresno.

LAS VEGAS, Nev.—Architect Jas.
A. Fleming, Las Vegas, is com-
pleting plans and will take bids for
the construction of additions to St.
Joan of Arc Catholic church on Sec-
ond Street.

Plans Being Completed.

CHURCH Cost, \$75,000

BERKELEY, Alameda County, Calif.

Scenic and Le Conte Avenues

One-story brick church (to seat 5000).

Owner—University Christian Church,
Architect—W. H. Batchler, Jr., Cham-
ber of Commerce Bldg., Berkeley.

Bids will be taken for a general con-
tract in one week.

SAN JOSE, Santa Clara Co., Cal.—
Rev. John T. Buckley, pastor of St.
Leo's Catholic Church, announces that
plans will be prepared for a new edifice
to replace the present building at
1051 W San Fernando St. The cost of
construction, according to tentative
estimates, is placed at \$100,000.

RIVERSIDE, Calif.—First Christian
Church, Rev. C. L. Waite, pastor, has
appointed a building committee to

SKILSAW Portable Electric Hand
Saws (4 models).

SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attach-
ments.

SYNTRON Portable Electric Ham-
mers (4 models, motor-
less).

MALL Flexible Shaft Machines (50
models).

Electric Drills, Grinders, Buffers,
Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric
Tools.

1248 Mission St. Underhill
San Francisco 7652
SALES . SERVICE . RENTALS

work out details preparatory to the
erection of a new edifice to cost about
\$50,000.

Bids To Be Taken In One Week.

CHURCH Cost, \$19,000

SAN FRANCISCO, 32nd Avenue and

Ulloa Street.

One- and two-story frame and stucco
church with slate roof (to seat
400).

Owner—St. Stephens Protestant Epis-
copal Church.

Architect—Chas. Strothoff, 2724 15th
Street.

FACTORIES AND WARE- HOUSES

Contract Awarded.

CANNERY Cost, \$10,000

ISLETON, Sacramento Co., Cal.

Rebuild cannery.

Owner—Isleton Canning Co., 2 Pine St.,
San Francisco.

Architect—Eng. Dept. of Owner.

Contractor—J. F. Watson, Isleton.

Building was recently partially de-
stroyed by fire. Equipment will be
replaced to cost approximately \$12,-
000.

Sprinkler System Plans Wanted.

RECONSTRUCTION Cost, \$45,000

SAN FRANCISCO, 700-798 York St.

Reconstruct portions of plant.

Owner—Trevor & Co., 71 Sutter St.

Architect—Not Given.

Bids on other portions of the work
will be taken shortly.

Contract Awarded.

DAIRY Cost approx. \$10,000

SAN MATEO, San Mateo Co., Calif.

One-story and mezzanine floor frame
and stucco dairy bldg. (40x70-ft.;

concrete floor, composition roof).

Owner—Jersey Dairy Farm, 333 South
Idaho, San Mateo.

Plans by D. K. Dobkowitz, 424 Mont-
erey Blvd., San Francisco.

Contractor—Castle Bldg. Co., 830 Mar-
ket St., San Francisco.

NEAR BLYTHE, Riverside Co., Cal.

—United States Gypsum Co., 300 W.
Adams St., Chicago, contemplates

erecting a wallboard factory at Mid-
land, 22 miles north of Blythe.

SACRAMENTO, Cal.—Assembly has
passed to the Senate a bill appro-
priating \$31,000 to finance construc-
tion of an addition and purchase of
equipment for the state printing plant
at 11th O Sts., Sacramento.

Preparing Plans.

TERMINAL BLDG. Cost, \$300,000

AVALON, Los Angeles Co., Cal.

Three-story and tower Class A rein-
forced concrete terminal building.

Owner—Santa Catalina Island Co.

Architect—Earl T. Heitschmidt, Los An-
geles.

Way Terminal Bldg., Los Angeles.

Contract Awarded—Sub - Bids Being
Taken.

SERVICE BLDG. Cost, \$60,000

SAN MATEO, San Mateo Co., Cal.

Group of service buildings (concrete
construction).

Owner—Pacific Gas & Electric Co.,
245 Market St., San Francisco.

Plans by Eng. Dept. of Owner.

Contractor—H. H. Larsen Co., 64 So.
Park St., San Francisco.

Sub-Contracts Awarded.

HANGAR Cont. price, \$32,746
SACRAMENTO, Sacramento Co., Cal.
 Freeport Blvd. at Municipal Air-
 port.

Steel frame and wood hangar and air
 terminal station, 80x190 feet.

Owner—City of Sacramento (to be
 leased to Boeing Air Transport
 Company).

Architect—Harry Devine, 1405 Forty-
 first St., Sacramento.

Contractor—Lindgren and Swinerton,
 Inc., California State Life Bldg.,
 Sacramento.

Rock, Sand and Cement—American
 Fuel Co., 2701 Stockton Blvd., Sacra-
 mento.

Structural Steel—Palm Iron Works,
 15th and S Sts., Sacramento.

Reinforcing Steel—W. S. Wetenhall,
 17th and Wisconsin Streets, San
 Francisco.

Lumber & Mill Work—Friend & Ter-
 ry, 2nd and S Sts., Sacramento.

Plumbing and Heating—A. W. Sweet,
 1436 Del Paso Blvd., Sacramento.

Electric Work—Sterling Electric Co.,
 907 8th St., Sacramento.

Grading—J. F. Reeve Co., 12th and
 American River, Sacramento.

Structure will be of steel frame and
 wood construction covering an area of
 80 by 100 feet, with an exterior cov-
 ering of corrugated iron.

Plans Being Prepared.

PLANT Cost, \$100,000
SAN JOSE, Santa Clara Co., Cal.

Three- or four-story concrete or brick
 manufacturing and refining plant.
 Owner—Liquid Sugar Corp., 637 Bat-
 tery St., San Francisco.

Plans by Eng. Dept. of Owner.

It is expected to start construction
 about Feb. 1, 1931. Similar buildings
 will be constructed at Los Angeles
 and Stockton at a later date.

Bids Opened.

FACTORY Cost, \$—
OAKLAND, Alameda Co., Cal. Eighty-
 first Avenue near 14th Street.
 One-story reinforced concrete factory.
 Owner—Blue Bird Potato Chips, Inc.,
 58th Ave. and Beck Sts., Oakland.
 Architect—Charles W. McCall, 1404
 Franklin St., Oakland.

Following is a complete list of the
 general bids received:

Harold Falge, 5651 Oak Grove,	
Oakland	\$35,755
Wm. Spivock, S. F.	25,990
Gaubert Bros., Oakland	26,350
Chas. Vezey & Sons, Oakland	26,782
G. P. W. Jensen, S. F.	26,800
J. J. Moore, Oakland	27,255
Clinton-Stephenson Const. Co., San Francisco	27,474
C. H. Lawrence, Oakland	27,485
Chas. Heyer, S. F.	27,740
R. W. Littlefield, Oakland	27,826
A. A. Haskell, S. F.	27,985
Barrett & Hlp., S. F.	28,200
H. S. Shain, Oakland	28,379
A. Cedarburg, Oakland	33,650
Jacobs & Pattani, Oakland	33,670
Austin Co. of Calif., Oakland	40,400
Villadsen Bros., S. F.	41,150

A number of alternates were sub-
 mitted which may change the low
 bidder's figures.

Plans Being Prepared.

HANGAR, ETC. Cost, \$65,000
SACRAMENTO, Cal. Municipal Air-
 port.

Steel frame and wood hangar and air
 terminal station.

Owner—City of Sacramento, H. G.
 Denton, city clerk.

Architect—Starks & Flinders, Forum
 Bldg., Sacramento.

Construction Postponed.

CANNING PLANT Cost, \$250,000
WATSONVILLE, Santa Cruz Co., Cal.
 One-story reinforced concrete canning
 plant (main structure 150x550-ft.)
 Owner—Manuel A. Travers, et al.
 Plans by Manuel Travers.

Manuel A. Travers, prime mover in
 this project, is manager of the com-
 mission house, Travers and Sakata,
 Beach Road, Watsonville. Construc-
 tion has been postponed for approxi-
 mately one year.

Plans Being Figured.

LAUNDRY Cost, \$10,000
SAN MATEO, San Mateo Co., Cal. No.
 719 Woodside Ave.

One-story frame and stucco laundry
 building.

Owner—Superior Service Laundry
 (Theo. Ryerson, Mgr.), 719 Wood-
 side Ave., San Mateo.

Architect—Not Given.

Building will house new machinery,
 including water softener and purifying
 plant.

Contract Awarded.

SHOP Cost, \$—
RICHMOND, Contra Costa Co., Cal.

One-story steel frame and brick shop.
 Owner—Santa Fe Railroad Co.

Architect—Eng. Dept. of Owner (M. C.
 Blanchard, Chief Engr.), Kerckhoff
 Bldg., Los Angeles.

Contractor—Villadsen Bros., 417 Mar-
 ket St., San Francisco.

PLANS BEING FIGURED—Bids Close Feb.
 3rd

PUBLISHING BLDG. Cost, \$—
LOS ANGELES, Cal. No. 113 S.
 Broadway.

Three-story Class A steel frame and
 reinforced concrete publishing build-
 ing (110x165 feet).

Owner—Times Mirror Co.

Architect—Gordon Kaufmann, Union
 Bank Bldg., Los Angeles.

Final Plans Approved.

SHOP BLDG. Cost, \$30,000
OAKLAND, Alameda Co., Cal. 52nd
 Ave. and E 10th St.

Two-story reinforced concrete main-
 tenance shop building.

Owner—City of Oakland School Dis-
 trict.

Plans by Building and Grounds De-
 partment, Oakland.

Bids will be advertised Jan. 26 and
 will be opened Feb. 10.

Bids Wanted—To Be Opened Feb. 3,
 12 Noon.

WAREHOUSE, ETC. Cost, \$60,000
SANTA ROSA, Sonoma Co., Cal.

Service group (warehouse, garage,
 shops, transformer house, meter
 house, pole yard, etc.)

Owner—Pacific Gas & Electric Co., 245
 Market St., San Francisco.

Plans by Eng. Dept. of Owner.

As previously reported, grading con-
 tract awarded to Connors & Hansen,
 Santa Rosa.

Sub-Contracts Awarded.

RECONSTRUCTION Cost, \$—
TRACY, San Joaquin Co., Cal.

Reconstruct present warehouse (brick
 walls, steel and wood roof).

Owner—Holly Sugar Co., West Chan-
 nel St., Stockton.

Plans by Eng. Dept. of Owner.

Fabrication of steel trusses awarded
 to the Herrick Iron Works, 13th
 and Campbell Sts., Oakland. Remain-
 ing work will be done by owners.

GARAGES AND SERVICE STATIONS

Contract Awarded

GARAGE Cost, \$12,500
RENO, Washoe Co., Nevada. South
 Virginia and Court Sts.

One-story brick garage, 50x100 feet.

Owner—H. C. Heldman (Durham
 Chevrolet Co., Lessee), Reno.

Architect—Geo. A. Ferris & Son, Clad-
 nos Bldg., Reno.

Contractor—Wine & Williams, Reno.

OAKLAND, Cal.—David Barnes, 593
 25th St., Oakland, at \$1,000 submitted
 lowest bid to city clerk to furnish and
 install four unit gas heaters in Mu-
 nicipal Garage at 5th Ave. and E 7th
 St. Council has appropriated \$2,000
 for this work.

Following is a complete list of bids:

David Barnes, Oakland	\$1,600
Geo. C. Bell, Oakland	1,749
East Bay Sheet Metal Works	1,837
George A. Schuster	1,845
Pacific Gas & Elec. Co.	1,910
Golden Gate Sheet Metal Works	2,124
Fearey & Moll	2,179
H. S. Salsbery	2,200
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Segregated Bids To Be Taken In One Week.

GARAGE Cost, \$15,000
SAN FRANCISCO, Third Street bet.

22nd and 22 1/2 Sts.

One-story and basement reinforced
 concrete garage and service sta-
 tion (150x50-ft.)

Owner—Samuel Lar, 238 5th St.

Plans by D. K. Dobkowitz, 425 Mont-
 orey Bldg.

Engineer—W. Adrian, 417 Market St.

As previously reported wood roof
 trusses awarded to Summerbell Truss
 Co., 354 Hobart St., Oakland. Con-
 tract awarded for furnishing and
 erecting nine Summerbell wood roof
 trusses.

Bids To Be Taken In A Few Days.

AUTO AGENCY Cost, \$20,000
SACRAMENTO, Sacramento Co., Cal.

NE 22nd and Y Sts. (120x150-ft.)

One-story brick Ford automobile
 agency.

Owner—Ellsworth Harrold, 712 12th
 St., Sacramento.

Architect—Chas. F. Dean, California
 State Life Bldg., Sacramento.

Contract Awarded.

SERVICE STATION Cost, \$10,000
SAN FRANCISCO, Masonic Ave. and
 Turk Street.

Owner—Associated Oil Co., 79 New
 Montgomery St., San Francisco.

Contractor—Reavey & Spivock, Shell
 Oil Bldg., San Francisco.

Bids Close Jan. 31, 12 Noon.

AUTO SALES BLDG. Cost, \$70,000
SAN FRANCISCO, Mission Street
 near Ney St.

One- and two-story steel frame and
 reinforced auto sales and service
 building.

Owner—W. E. Street, 251 Magellan
 Avenue.

Architect—Irvine & Ebbs, Call Bldg.

Following contractors will submit
 bids:

T. J. Broderick, 1305 Burlingame
 Ave., Burlingame.

G. P. W. Jensen, 320 Market St.

I. W. Coburn, 2048 Market St.

Stonson Bros. and Thorinon, 279
 Yerba Buena Ave.

Chas. Heyer, Mills Bldg.

Peter Sartorio, 2440 Greenwich St.

H. P. Hoyt, 45 2nd St.

Young & Horstmeier, 461 Market St.

T. B. Strand, 50 Castaneda.

L. M. Bruce, 3553 Divisadero St.

K. E. Parker, 135 South Park.

Lindgren & Swinerton Inc., 225 Eush
 Street.

Reavey & Spivock, Shell Oil Bldg.

Wm. Spivock, Hobart Bldg.

Bids Opened—Held Under Advisement

SERVICE STATION Cost, \$7500
SAN FRANCISCO, SW Pacific Ave.

and Larkin St.

Reinforced concrete service station.

Owner—E. Dodge, care Mr. Orth, Al-
 len & Co., 168 Sutter St.

Architect—Not Given.

Announcement will be made in a
 few days.

GOVERNMENT WORK AND SUPPLIES

MARE ISLAND, Calif.—Bureau of Yards and Docks, Navy Department, has set aside \$44,000 for improvements at Mare Island Navy Yard. The money will be expended as follows:
 Repairs to timber wharf..... \$ 3,000
 Improve etc. wiring machine shops..... 2,200
 Composition wood block roofing, Bldg. 271..... 10,000
 Covered passageway, Bldgs. 69-71..... 1,500
 Repair struc. shop floor..... 1,700
 Drainage Bldg. 690, paint shop annex..... 1,000
 Repair center track door, W. C. Bldg. 388..... 1,800
 Hammerhead cranes, grid removal..... 750
 Miscellaneous repairs to cranes 3292, 3134, 3033, 2422..... 1,500
 Painting Bldgs. 122-160-146-125 103 and 204 buildings in rear quarters..... 8,000
 Repair 6th St. bridge..... 500
 Repair railroad trestle from causeway to Submarine Office Wharf..... 2,400
 Renew springline, ferry slip..... 2,400

POMONA, Los Angeles Co., Cal.—U. S. Treasury Dept., office of the Supervising Architect, informs bidders for construction of the U. S. Post Office at Pomona that specifications have been modified. The changes apply to bronze entrance door finish, tile work, inner vestibule doors, boiler room bulks, public entrance doors and other doors.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Office, 160 Harrison St., San Francisco:

Bids Open Feb 3

Western yards, hammers and hatchets, sch. 4927.
 San Diego, one motor driven hand milling machine; sch. 4935.
 Mare Island, 4 electric refrigerators; sch. 4933.
 Mare Island, 150 ft. flexible metallic hose, 4-in.; sch. 4931.
 Mare Island, 130 waterproof vibrating horns, electric; sch. 4938.
 San Diego, 1000 lbs. steel wool; sch. 4954.
 San Diego, 3 subway type transformers; sch. 4963.
 Mare Island, 3 electric drills; sch. 4953.

Bids Open Feb. 10

Mare Island, 13,200 ft. steel wire rope; sch. 4962.

Bids Open Feb. 17

Mare Island, 69,000 ft. b.m. teak; sch. 4928.

MARE ISLAND, Cal.—L. Hecht, 340 Pine St., San Francisco, (rep. Eastern Contracting Firm) (Tel. Exchange 4073) desires sub-bids in connection with the barracks buildings to be constructed at Mare Island for the U. S. Government. General bids are to be opened January 28 by the Bureau of Yards and Docks, Navy Department, Washington, D. C. Sub-bids desired on all portions of the work.

WASHINGTON, D. C.—Until February 11, 10:30 A. M., under Schedule No. 2625, bids will be received by Purchasing Officer, Panama Canal, for transmission line towers. Specifications obtainable from Assistant Purchasing Agent at Fort Mason, San Francisco.

SAN FRANCISCO.—J. E. Rodgers, at \$2300 submitted lowest bid to Architect Wm. A. Newman, Post Office Bldg., for furnishing all labor and materials and performing all work for test borings at the site of the United States Federal Office building at San Francisco. Following is a complete list of the bids:
 J. E. Rodgers.....\$2,300
 Wm. Allingham Co..... 3,000
 N. H. Wright..... 4,900
 Bids referred to Washington for award.

SAN FRANCISCO.—Until Jan. 27, 10 A. M., under Schedule No. 928-31-183, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver Manila rope; 1,000 ft. water hose of which 300 ft. will be 3/4-in. dia. in 50 ft. lengths, 300 ft. 1/2-in. in 50 ft. lengths; 100 ft. 1-in., 50-ft. lengths and 300 ft. 1 1/2-in. in 50 ft. lengths; 15,500 ft. braided water hose, 3/4-in. dia. in 50 ft. lengths; 2556 gallons olive drab paint, ready mixed; miscellaneous office supplies. Specifications obtainable from above office.

Contract Awarded.

FOUNDATION Cont. Price, \$38,480
 OAKLAND, Alameda Co., Cal. 12th, 13th, Alice and Jackson Sts.

Foundation work in connection with proposed new post office.
 Owner—U. S. Government.
 Plans by Supervising Architect, Treasury Dept., Washington, D. C.
 Contractor—George Petersen, San Leandro.

SAN FRANCISCO.—Until February 3, 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason, to construct ornamental entrance gates for San Francisco National Cemetery, Presidio of San Francisco. Bids for finish in granite, Indiana Limestone or cast stone will be considered. Separate bids will be considered for the iron work. Specifications obtainable from above.

BOULDER CITY, Nev.—See "Water-reclaiming," this issue. Bids opened by U. S. Reclamation Service, Colorado, to fabricate and erect two arc-welded plate steel tanks for Boulder City Water supply.

SAN FRANCISCO.—Until Jan. 26, 10 A. M., under Schedule No. 925-31-181, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver ten oil cooled distribution transformers, 440 volt primary, 110 to 220 volt secondary, 60 cycles, single phase, each complete with the necessary oil and gangers or suspension hooks. Quantities and capacities as follows:
 One 50 KVA.
 Two 37 1/2 KVA.
 Three 25 KVA.
 One 15 KVA.
 Three 5 KVA.

Each transformer to be packed separately with its necessary equipment, and to be suitably boxed for oversea shipment.

Prospective Bidders. \$17,000 available
 GATES, ETC. Presidio (National Cemetery).
 Granite and bronze gates, urns, etc., at entrance to National Cemetery.
 Owner—United States Government.
 Architect—Constructing Quartermaster, Fort Mason.

Following is a partial list of prospective bidders:
 H. E. Root, 639 Howard St.
 Superior Granite Co., Clovis, Calif.
 Michel & Pfeffer Iron Works, Harrison and 10th Sts.
 Anchor Post Fence Co., 460 5th St.
 Western Artificial Stone Co., 666 Brannan St.

New Era Work Shop, 6036 Mission Street.
 P. F. Speidel, 185 Stevenson St.
 O. W. Litsinger, 19th and Minnesota Sts.
 F. J. Reilly, 666 Mission St.
 Bids are to be opened Feb. 3, 11 A. M., by Constructing Quartermaster, Fort Mason.

PEARL HARBOR, T. H.—In addition to those previously reported, following are prospective bidders to erect seaplane hangar at Pearl Harbor, T. H., bids for which will be opened February 18 by the Bureau of Yards and Docks, Navy Department, Washington, D. C., under specification No. 6215:

Ingalls Iron Works, Verona, Pa.
 Moore & Co., P. O. Box 1086, Huntington, W. Va.
 American Bridge Co., Washington.
 Honolulu Iron Works Co., 165 Broadway, New York City.

SAN FRANCISCO.—Until January 26, under Circular No. 54, bids will be received by Signal Section, General Depot, Procurement Division, Presidio, for one storage battery, one battery charger and 1 filter reactance. Specifications obtainable from above.

January 20, 1930

Contract Awarded.

MESS HALL Cont. price, \$18,778
 MONTEREY, Monterey Co., Cal. Presidio.

Seven 1-story frame mess hall bldgs. Owner—United States Government.
 Plans by Construction Quartermaster, Presidio, Monterey.
 Contractor—Newman & Halsted, Pacific Grove.

PACIFIC COAST—Following contracts awarded by Bureau of Yards and Docks, Navy Department, Washington, D. C., in connection with developments on the Pacific Coast:

Spec. 6362, turbo alternator, navy yard, Mare Island, Calif., Elliott Co., Jeanette, Pa., item 1, \$44,500; 180 calendar days; unit price, \$21.40 calendar day also accepted.
 Spec. 6275, San Diego, Calif., for physical instruction gymnasium and welfare building, Anton Johnson Co., 517 El Centro St., South Pasadena, Calif., \$98,647, 280 days.
 Spec. 6356, Coco Solo, C. Z., elevator, Otis Elevator Co., 810 18th St., N. W., Washington, \$2970, 180 days.

SACRAMENTO, Cal.—Until January 26, 3 P. M., under Order No. 2589-1757, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County:

One double acting ratchet, for Morse Taper Shank, complete with necessary collets, so any size drill can be used. Renshaw No. 3, page 94, Marwedel Cat. No. 12, or equal.
 One Carbon steel twist drill, Morse Taper shank, 3/8".
 One do, 1/2".
 One do, 5/8".
 One do, 3/4".
 One do, 7/8".
 One do, 1".
 Old Man, for use with ratchet drills. No. 19, page 94, Marwedel Cat. No. 12, or equal.

MARE ISLAND, Cal.—A. Nelson, 242 Ocean Ave., San Francisco, desires sub-bids in connection with the barracks buildings to be constructed at Mare Island for the U. S. Government. General bids are to be opened January 28 by the Bureau of Yards and Docks, Navy Department, Washington, D. C. Sub-bids desired on all portions of the work.

HALLS AND SOCIETY BUILDINGS

WILLOWS, Glenn Co., Cal.—As previously reported, Rucker-Fuller Co., San Francisco, at \$6,559.48 awarded contract by county supervisors to furnish and install furniture, draperies and equipment in Orland Memorial Building. Other bids: W. and J. Sloane, San Francisco, \$3,984.05, bidding on portions only; Frank M. Beecher, San Francisco, \$7,720.

Plans Being Prepared.
CLUBHOUSE Cost, \$10,000
FRESNO, Fresno Co., Cal.—NE California and A Streets.
One-story frame clubhouse (site 75x 200 feet).
Owner—Edison Social Club, California St. near Elm Ave.

Private plans.
Members of the building committee are: C. J. Sommers, chairman; Pete Steitz, Ed. Steitz and P. A. Schneider of Biola.

PORTERVILLE, Tulare Co., Cal.—Lions Club special committee, recently appointed to secure data for a new municipal building project, is having sketches prepared by J. Fresno architect for a building to house the city offices, fire station and jail. Property at Main and Cleveland Sts. has been tentatively chosen as a site for the structure.

HOSPITALS

Bids Opened.
WARD BLDGS. Cost, \$—
SAN FRANCISCO. Relief Home T'ct. Two class A ward buildings (Wards K and L).
Owner—City and County of San Francisco.
Architect—Hyman & Appleton, 68 Post Street.

General Contract

Anderson & Ringrose, 320 Market St.	\$324,400
Monson Bros.	324,875
K. E. Parker.	326,700
Barrett & Hilp.	329,959
MacDonald & Kahn.	332,301
H. L. Peterson.	334,324
J. L. McLaughlin Co.	335,000
Larsen & Larsen.	336,000
Young & Horstmeier.	345,000
F. C. Amoroso.	347,900
Jacks & Irvine, Inc.	348,407
A. Nelson.	352,000
Frank J. Reilly.	357,654
C. L. Wold.	374,000

Mechanical Equipment

Scott, Co., 243 Minna St.	\$20,842
Frederick W. Snook Co.	23,520
Turner Company.	23,600
Jas. H. Pinkerton Co.	23,890
Jas. A. Nelson, Inc.	23,978
B. O. Brace.	25,692
Henry Ernst & Sons.	26,600

Plumbing System

Turner Co., 329 Tehama St.	\$36,370
Jas. H. Pinkerton Co.	37,961
Scott Company.	38,887
Alex. Coleman.	39,500
Oscar Aaron.	39,900
B. O. Brace.	42,465
Frederick W. Snook Co.	42,545

Electrical Work

G. H. Armstrong, 2890 Howard Street	\$16,700
Superior Electric Co.	19,675
Aetna Electric Co.	19,971
Strom & Smith.	20,728
Turner Company.	20,990
Decker Electric Co.	23,050

SAN FRANCISCO.—Golden Gate Iron Works, 1541 Howard St., submitted low bid to Board of Public Works to fabricate and deliver structural steel for roof ward additions to the San Francisco Hospital. J. Gerrick and Co., 74 New Montgomery St., at \$7,560 submitted low bid to erect.

Following is a complete list of bids:
(a) Work as per specifications;
(b) Fabricate and deliver;
(c) Erection
Golden Gate Iron Works, 1541 Howard St., (a) \$27,440; (b) \$19,312; (c) no bid.
McClintock-Marshall Co., (a) \$27,740; (b) \$19,070; (c) no bid.
Schryder Iron Works, (a) \$28,420; (b) \$21,050; (c) no bid.
Dyer Bros., (a) \$28,512; (b) \$20,000; (c) no bid.
Judson-Pacific Co., (a) \$29,097; (b) \$20,752; (c) no bid.
Minneapolis-Moline Power Co., (a) \$31,200; (b) \$22,400; (c) no bid.
J. Gerrick & Co., (c) \$7,560.
J. T. Walsh, (c) \$11,500.

Completing Plans—Contract Awarded.
ADDITION Cost, \$30,000
SAN FRANCISCO. 27th and Valencia Streets.
Two-story steel frame cafeteria addition.
Owner—St. Luke's Hospital, premises, Architect—George Kelham, 315 Montgomery Street.
Contractor—Chas. Stockholm & Sons, Russ Bldg.

Plans Complete. Cost, \$250,000
HOSPITAL (1st unit \$66,000)
COLUSA, Colusa Co., Calif. County Hospital Grounds.
One- and two-story reinforced concrete hospital (1-story wing and 2-story administration building).
Owner—County of Colusa.
Architect—Otto Deichmann, 110 Sutter St., San Francisco.

Only the first unit, having a 24-bed capacity, will be undertaken at this time. The structure, when completed, will have a capacity of 100 beds. Bids will be advertised for shortly.

LOS ANGELES, Cal.—The Board of Supervisors has rescinded the order advertising for bids on Feb. 16 for furnishing terrazzo work for the Los Angeles General Hospital. A new date will be announced later.

Plans Being Figured—Bids Close February 17, 2 P. M.
HOSPITAL Cost, \$—
SPADRA, Los Angeles Co., Cal. State Hospital Grounds.
Hospital Administration Building and Girls' Industrial Building.
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.

The hospital building is two story reinforced concrete walls and floors, the partitions and the roof on wood construction. Total floor area is approximately 18,000 square feet. The Administration Building is one story reinforced concrete walls and floor, the partitions and the roof on wood construction. Total floor area is approximately 6300 square feet. The Girls' Industrial Building is a one story addition with reinforced concrete walls, wood floor, partitions and roof construction and the tile roof. Total floor area is approximately 2200 square feet.

Separate bids will be entertained for the following segregate parts of the work and combinations thereof:

1. General Work, embracing all branches of the construction other than plumbing, heating, ventilating and electrical.
2. Electric work.
3. Plumbing, Heating and Ventilating Work.
4. Complete Plumbing, Heating, Ventilating and Electrical Work.

See call for bids under official proposal section in this issue.

Bids Opened.
ADDITIONS Cost, \$379,000
SAN FRANCISCO. Potrero Ave. bet. 20th and 23rd Sts. (San Francisco Hospital).
Class A addition on roof of four ward buildings (brick walls, tile roof).
Owner—City and County of San Francisco.

Architect—Alfred I. Coffey and Martin J. Kist, associated, Fidelity Bldg.

Following is a complete list of bids:

General Work

Barrett & Hilp, 918 Harrison Street	\$269,837
E. K. Nelson, Son.	275,000
J. L. McLaughlin Co.	276,700
Anderson & Ringrose.	284,000
Jacks & Irvine.	289,630
MacDonald & Kahn.	294,000
H. L. Petersen.	294,697
F. J. Reilly.	295,432

Plumbing

Turner Co., 329 Tehama St.	\$38,225
Scott Company.	41,187
P. O. Brace.	41,633
Alex. Coleman.	42,567
Frederick W. Snook Co.	44,632
Dowd-Welch Co.	67,000

Electric Work

Alta Electric Co., 938 Howard Street	\$42,895
Superior Electric Co.	43,200
Michels & Lucas.	44,850

Heating

J. A. Nelson, 10th & Howard.	\$17,694
Scott Company.	17,700
P. O. Brace.	20,902
F. W. Snook.	21,610
The Turner Co.	22,324
Dowd & Welch.	35,000

Plans Being Figured—Bids Close February 17, 2 P. M.
HOSPITAL Cost, \$—
NORWALK, Los Angeles Co., Cal. State Hospital Grounds.
Two-story reinforced concrete Night Attendants' Quarters and two-story reinforced concrete Day Attendants' Quarters and one-story frame and stucco residence.
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.

The Quarters for Night Attendants two story reinforced concrete walls and floors, tile partitions and tile roof on wood construction. Total floor area approximately 7600 sq. ft.

The Quarters for Day Attendants is two-story reinforced concrete walls, wood floor, partition and roof construction and tile roof. Total floor area approximately 6800 square feet.

The Residence is one-story frame, exterior and stucco walls and shingle roof and of approximately 1800 square feet.

Separate bids will be entertained for the following segregate parts of the work and combinations thereof:

1. General Work and Alternates, embracing all branches of the construction other than Plumbing, Heating and Electrical.
2. Electrical Work and Alternates.
3. Plumbing and Heating Work and Alternates.
4. Complete Mechanical including Plumbing, Heating and Electrical Work and Alternates.

See call for bids under official proposal section in this issue.

LOS ANGELES, Cal.—Until Feb. 9, 2 P. M., bids will be received by Los Angeles County Supervisors for the following items in connection with the Los Angeles General Hospital: (1) dishwashing machines; (2) heavy duty ranges; (3) kitchen equipment, meat tracks and scales; (4) steamers and kettles; (5) light duty ranges; (6) linoleum; (7) sheet metal equipment.

Plans on file at the office of Miss Mame B. Beatty, Hall of Records Bldg., Los Angeles.

LOS ANGELES, Cal.—Until Feb. 16, 2 P. M., bids will be received by Los Angeles County Supervisors for the following items in connection with the Los Angeles General Hospital: (1) plastering; (2) terrazzo work; (3) low pressure refrigeration; (4) carbon dioxide equipment; (5) high pressure refrigerators; (6) lighting fixtures.

Plans on file at the office of Miss Mame B. Beatty, Hall of Records Bldg., Los Angeles.

Plans Being Prepared.
ALTERATIONS Cost, _____
MERCED, Merced Co., Cal. County Hospital Grounds.
 Enlarge and remodel kitchen in Isolation Ward.
 Owner—County of Merced.
 Plans by W. E. Bedesen, County Surveyor, Shaffer Bldg., Merced.

TUCSON, Ariz.—Dr. Paul D. Mossman, medical director, U. S. Bureau of Indian Affairs, has tentatively chosen Sahuarilla hill, east of San Xavier mission, as a site for the proposed Papago Indian sanatorium, to be erected this year. Plans will be drawn at once for a structure to cost about \$128,000. J. W. Elliott is director of the Papago Indian Reservation with offices at Sells, Ariz.

SAN FRANCISCO—A. Nelson, 242 Ocean Ave., desires sub-bids in connection with the construction of two Class A ward buildings (Wards K and L) for which bids are being received on Jan. 21, at 2:30 P. M. by San Francisco Board of Public Works. Plans prepared by Architects Hyman & Appleton, 68 Post Street. Cost estimated at \$338,500. Mr. Nelson desires sub-bids on all portions of the work.

Contract Awarded.
ADDITION Cont. price, \$9625
SAN JOSE, Santa Clara County, Cal. County Hospital.
 Two-story frame and stucco addition to health cottage.
 Owner—County of Santa Clara.
 Architect—Binder & Curtis, 35 W San Carlos St., San Jose.
 Contractor—Frank Neves, 391 Harrison St., San Jose.

Following is a complete list of bids:

Frank Neves, San Jose.....	\$ 9,625
Wm. Meyer, San Jose.....	9,780
Paul Anderson, San Jose.....	10,340
G. M. Latta, San Jose.....	10,374
R. C. Summers, San Jose.....	11,560
Geo. Moore, San Jose.....	10,574
Thermotite Const. Co., San Jose	10,579
The Minton Co., Mt. View.....	10,794
Collins & Martin, San Jose.....	10,838
Magna & Newell, San Jose.....	11,060
J. D. Carlson, San Jose.....	11,089
E. J. Smith, San Jose.....	11,350

Contract Awarded.
EQUIPMENT Cont. price, \$9,927
SAN JOSE, Santa Clara Co., Cal. Infirmary Road.
 Mechanical equipment for Service Building and underground piping system for Santa Clara County Hospital.
 Owner—County of Santa Clara, Henry A. Pfister, county clerk.
 Architect—Binder & Curtis, 35 W San Carlos St., San Jose.
 Contractor—A. J. Peters & Son, 455 E Washington St., San Jose.

Following is a complete list of bids:

A. J. Peters & Son, San Jose.....	\$ 9,997
O'Mara & Stewart, S. F.....	11,900
Geo. Schuster, Oakland.....	12,763
J. D. Carlson, San Jose.....	13,100
J. A. Nelson, S. F.....	14,564

AGNEW, Santa Clara Co., Calif.—Spencer Elevator Co., 166 7th St., San Francisco, at \$3226 awarded contract by State Department of Architecture, Public Works Bldg., Sacramento, for reconstruction of two elevators in the Agnew State Hospital.

Plans Being Completed
BUILDINGS Cost, \$10,000 each
OAKLAND, Alameda Co., Cal. Del Valle Tuberculosis Farm.
 Two Preventorium buildings.
 Owner—County of Alameda.
 Architect—H. H. Myers, Kohl Bldg., San Francisco.
 One building will be an open-air pavilion.
 Bids will be taken in 2 or 3 weeks.

January 21, 1931
 Plans Being Prepared.
NURSERY Cost, \$25,000
SAN JOSE, Santa Clara Co., Calif. Eighth Street.
 Two-story and basement frame and stucco nursery.
 Owner—Santa Jose Day Nursery, 32 N 7th St., San Jose.
 Architect—Binder & Curtis, 35 W San Carlos St., San Jose.
 Members of the Building Committee are: Mrs. W. G. Alexander, chairman; Mrs. J. E. Fisher, Mrs. Preston H. Boomer, Mrs. Albert E. Thompson, Mrs. Fred N. Hess and Mrs. F. H. Glasson.

Plans Being Prepared.
ORPHANAGE Cost, \$225,000
GRASS VALLEY, Nevada Co., Cal. Two-story and basement reinforced concrete orphanage (parochial school, dormitory, etc.)
 Owner—Saint Patrick's Orphanage, Grass Valley.
 Architect—Harry Devine, California State Life Bldg., Sacramento.
 Bids will be called for about June 1.

BERKELEY, Alameda Co., Cal.—Lamson Company, 611 Howard St., San Francisco, at \$4041 awarded contract by Regents of the University of California for furnishing and installing pneumatic tube system in Cowell Memorial Hospital, Berkeley.

Plans Being Prepared.
HOSPITAL Cost, \$65,000
SAN FRANCISCO, Ocean Ave. and Alemany Blvd.
 Two-story class A reinforced concrete emergency hospital.
 Owner—City and County of San Francisco.
 Architect—Bureau of Architecture, Chas. Sawyer, chief, City Hall.

HOTELS

Work Started.
REMODELING Cost, \$50,000
SAN FRANCISCO, Powell and O'Farrell Streets.
 Remodel interior of hotel (painting, papering, etc.)
 Owner—Maix Hotel, premises.
 Architect—Not Given.
 Work is being done by owners on day's work basis.

Plans Being Figured—Bids Close Jan. 28th.
HOTEL Cost, \$700,000
YAKIMA, Washington.
 Thirteen-story and basement class A Hotel (200 guest rooms).
 Owner—Naches Hotel Co., J. C. Von Berg, president, Seattle.
 Architect—Henry Bittman, Securities Bldg., Seattle.

Bids are being received for a general contract with separate bids for plumbing, heating and electric work.
 Owner Taking Bids.
REMODELING Cost, \$20,000
MODESTO, Stanislaus Co., Cal.

Remodel hotel (enlarge floor, new furnishings, etc.)
 Owner—Henry Crow, Modesto Hotel, Modesto.
 Architect—Davis-Pearce Co., Grant and Weber Sts., Stockton.
 Bids are being taken for a general contract with separate bids on painting and electric work.

ICE AND COLD STORAGE PLANTS

NAPA, Napa Co., Cal.—Union Ice Co., will spend \$20,000 in new cold storage facilities at the present plant in the East Napa section, it is announced by Ed Milde, plant manager. Construction has already been started.

Plans Being Completed—Contract Awarded.
ICING PLANT Cost, \$150,000
SACRAMENTO, Cal. 9th and C Sts.
 Reinforced concrete refrigerator car icing plant.
 Owner—Consumers Ice & Cold Storage Co., 9th and L Sts., Sacramento.
 Plans by Contractor, Contractor—W. W. Williamson, 320 Market St., San Francisco.
 The addition will house cold storage and pre-cooling of perishable commodities to be handled by the Western Pacific Railroad.

Contract Awarded.
COLD STORAGE Cost, \$20,000
NAPA, Napa Co., Calif. East Napa Section.
 Cold storage facilities at present plant
 Owner—Union Ice Company.
 Plans by W. W. Williamson.
 Contractor—W. W. Williamson, 320 Market St., San Francisco.
 Construction will start shortly.

BERKELEY, Alameda Co., Calif.—California Cork Insulation Co., Inc., 354 Pine St., San Francisco, at \$175 awarded contract by Regents of the University of California for refrigeration and air conditioning room in the Engineering laboratory on the campus of the University of California.

POWER PLANTS

SAN BERNARDINO, Cal.—Ceuthern Sierras Power Co. has started work on the erection of a transmission line terminal at its Oak Street plant here. Steel bus structures, switching equipment, etc., will be installed; cost \$255,000.

GUSTINE, Merced Co., Calif.—City Engineer A. E. Cowell has completed plans and bids will be asked shortly by town trustees to erect power house to house transformers and other equipment for the street lighting system.

BEVERLY HILLS, Los Angeles Co., Cal.—Until 8 P. M., Feb. 16, bids will be received by the city of Beverly Hills for approximately 32,000 ft. lead-covered wire for the street department.

GUSTINE, Merced Co., Cal.—Until January 26, 7:30 P. M., bids will be received by W. L. Chappell, city clerk, Room 2, I. O. O. F. Bldg., Gustine, to erect transformer house, 12x18-ft., with hollow tile walls and concrete floor. Certified check 10% payable to Chairman of the Board of Trustees required with bid. Plans obtainable from city clerk.

LOS ANGELES, Cal.—City council has before it a measure proposed by Thomas W. Williams, councilman, for placing of the fuse ball at \$19,000, 000 power bond issue.

TUCSON, Ariz.—Tucson Gas, Electric Light & Power Co., Max A. Pooler, general manager, will start work Feb. 1 on expansions to its plant to cost approximately \$400,000. A large Diesel engine will be installed and buildings erected to house the machine. Plans are being drawn by Samuel Headman, superintendent of construction for the Federal Light & Traction Co., the parent concern.

LONG BEACH, Los Angeles Co., Cal.—Stone & Webster, 510 F. Hendrickson, local manager, H. F. Laughlin Bldg., Third and Broadway, Los Angeles, engineers and contractors, will prepare plans and specifications and will build a new steam plant unit at Long Beach for the California Edison Co. The new unit will develop an additional 125,000-hp. and is estimated to cost \$7,500,000.

January 19, 1931

Contracts Awarded.
POWER HOUSE Cost, \$—
SAN FRANCISCO. Third Avenue and Parnassus Avenue.
 One-story steel frame and concrete power house.
 Owner—University of California.
 Architect—Wm. C. Hays, Crocker 1st Nat'l Bank Bldg., San Francisco, General Work
 J. S. Hannah, 268 Market St., San Francisco, \$23,753.
Mechanical Equipment
 C. C. Moore & Co., Sheldon Bldg., San Francisco, \$38,805.

LONG BEACH, Calif.—Application has been made to the U. S. Engineer Office at Los Angeles by the Southern California Edison Company, Ltd., for War Department permission to construct an extension to condenser water intake for their electric generating plant at the entrance to Long Beach Harbor.

LOS ANGELES, Cal.—Los Angeles Gas & Electric Corp. will spend about \$4,000,000 this year on additions and betterments to its gas and electric systems. The chief items on the 1931 betterment program include 20 miles of commercial gas mains, 9500 gas services, 10,000 gas meters, 4000 gas regulators, 8000 electric services, 6000 electric meters with the necessary poles, wires and conduits; a new supervisory control electric substation of 15,000 Kva capacity and preparation for changing 16,500-volt high lines to 33,000-volt lines.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Contract Awarded.
ELEVATOR Cost, \$10,000
SAN JOSE, Santa Clara Co., Calif.
 Court House.
 Install elevator in courthouse.
 Owner—County of Santa Clara.
 Architect—Blair & Curtis, 35 W. San Carlos St., San Jose.
 Contractor—Thermotte Const. Co., 580 Stockton Ave., San Jose.
Elevator—Otis Elevator Co., 1 Beach St., San Francisco.

Commissioned To Prepare Plans.
HALL OF RECORDS Cost, \$500,000
MARTINEZ, Contra Costa Co., Cal.
 Class A Hall of Records Bldg.
 Owner—County of Contra Costa.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Project will be financed by a three-year tax levy, two assessments having already been raised. Among other architects who sought commission to prepare the plans were John J. Donovan of Oakland, A. W. Cornelius of San Francisco, Jas. T. Narbett of Richmond.

Bids Opened For Foundation Work.
LEGION BLDG. Cost, \$2,500,000
SAN FRANCISCO. Civic Center.
 Two-story and basement concrete class A Legion Building.
OPERA HOUSE Cost, \$2,500,000
 Six-story class A opera house, seating capacity 4000; standing room 500.
 Owner—City and County of San Francisco (S. F. War Memorial).
 Architect—G. A. Lansburgh, 140 Montgomery St. and Arthur Brown, 251 Kearny St.

Manager of Const.—Lindgren & Swincron, Inc., 225 Bush St.
 Following is a complete list of bids:
 L. J. Cohn, 1 De Haro St.....\$236,200
 MacDonald & Kahn.....242,999
 Hanrahan Company.....255,900
 K. E. Parker Co.....256,000
 Monson Brothers.....263,000
 Clinton Construction Co.....272,424
 Barrett & Hilp.....286,500
 Chas. L. Harney.....295,000
 Guy F. Atkinson.....304,400
 Eaton & Smith.....311,500
 Complete list of unit prices obtainable from this office.

Completing Plans.
ADDITION Cost, \$250,000
SAN FRANCISCO. Golden Gate Park
 Addition to present Academy Building (steel and brick construction).
 Owner—California Academy of Science Premises.
 Architect—Lewis P. Hobart, Crocker Bldg., San Francisco.
 Bids will probably be called for within ten days.

Plans Being Prepared.
ADDITION Cost, \$150,000
RENO, Washoe Co., Nevada.
 Two-story fireproof addition to County Courthouse, 60x140 feet.
 Owner—County of Washoe.
 Architect—F. J. DeLongchamps, Gazette Bldg., Reno, Nevada.
 Modern heating plant will be installed. District Attorney Melvin E. Jepson has been authorized by the county commissioners to draw up a bill to be presented at the forthcoming state legislature authorizing a \$150,000 bond issue to finance this construction.

January 16, 1931

Bids To Be Advertised Feb. 2nd.
JAIL Cost, \$110,000
SALINAS, Monterey Co., Cal.
 Two-story reinforced concrete jail (to accommodate 100 prisoners).
 Owner—County of Monterey.
 Architect—Reed & Corlett, Oakland Bank of Savings Bldg., Oakland.

RENO, Nev.—County Library Trustees reject lone bid of B. E. Bevilacqua of Reno at \$11,000 to move the old county library building from Reno to Sparks, Nevada. The trustees are now considering the erection of a new structure in Sparks, having abandoned the proposal to move the building at Reno.

Preparing Plans.
CITY HALL Cost, \$90,000
REDLANDS, San Bernardino Co., Cal.
 Vine and Cajon Streets.
 One and two-story reinforced concrete and masonry city hall.
 Owner—City of Redlands.
 Architect—E. T. Voelmy, 125 E. Fern St., Redlands.

Preparing Preliminary Plans.
POLICE STATION Cost, \$60,000
SAN FRANCISCO. Golden Gate Park.
 Police Station.
 Owner—City and County of San Francisco.
 Architect—Weeks and Day, Financial Center Bldg.

SAN FRANCISCO.—Vogt & Davidson, 135 Stevenson Street, at \$4,450 awarded contract by State Department of Architecture, Public Works Bldg., Sacramento, for partition work in the State Building, San Francisco.

RESIDENCES

Contract Awarded.
RESIDENCE Cost, \$4500
SAN LEANDRO, Alameda Co., Calif.
 Glen Drive.
 1½-story frame and stucco residence (5 rooms).
 Owner—Mrs. Law.
 Plans by Ralph Wood, 1197 Foothill Blvd., San Leandro.
 Contractor—Arthur Nylander, San Leandro.

Contract Awarded.
RESIDENCE Cost, \$9000
SAN LEANDRO, Alameda Co., Calif.
 Estudillo Estate, Rodney Drive.
 Two-story and basement frame and stucco residence (7 rooms).
 Owner—Mr. Bruning.
 Plans by Ralph Wood, 1197 Foothill Blvd., San Leandro.
 Contractor—Arthur Nylander, San Leandro.

Bids To Be Taken Shortly.
RESIDENCE Cost, \$—
SAN FRANCISCO. St. Francis Wood.
 Two-story and basement frame and stucco residence (9 rooms).

ORNAMENTAL WIRE AND IRON WORK

IRON WIRE Fence and Gates

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Owner—Dr. S. J. Hunkin, 1155 Bush St., San Francisco.
 Architect—Henry H. Gutterson, 526 Powell St., San Francisco.

Contract Awarded.
 RESIDENCE Cost, \$12,000
 SAN FRANCISCO. Washington St.
 Two-story and basement frame and stucco residence.

Owner—Dr. E. H. Howell, 909 Hyde Street.
 Architect—Harris Allen, 1924 Broadway, Oakland.
 Contractor—J. Harold Johnson, Hearst Building.

Contract Awarded.
 RESIDENCE Cost, \$—
 BURLINGAME, San Mateo Co., Cal.
 Walnut and Willow Sts.
 Two-story and basement frame and stucco residence.

Owner—D. H. Wade Macomber, 1425 Broadway, Burlingame.
 Architect—Jas. J. Mitchell, 269 Pine St., San Francisco.
 Contractor—Mr. Coykendall, Redwood City.

Sketches Being Prepared.
 RESIDENCE Cost, \$20,000
 BERKELEY, Alameda County, Calif.
 Claremont Pines.
 Two-story and basement frame and stucco residence (10 rooms and 4 baths).

Owner—Withheld.
 Architect—W. E. Schirmer, 700 21st St., Oakland.

Contract Awarded.
 RESIDENCE Cost, \$10,000
 OAKLAND, Alameda Co., Cal. West Kingsley Place N Trestle Glen Rd.
 Two-story frame and stucco residence (7 rooms).

Owner—F. De Luce, 227 17th Street, Oakland.
 Architect—H. L. Slocombe, 62 York Drive, Oakland.
 Contractor—H. C. Knight, 327 17th St.,

Construction Postponed Indefinitely.
 RESIDENCE Cost, \$10,000
 SAN FRANCISCO, Forest Hill.
 Two-story and basement frame and stucco residence (6 rooms and 2 baths).
 Owner—John Gould.
 Architect—Crim, Resing & McGuinness, 525 Market St.

Contract Awarded.
 RESIDENCE Cost, \$10,000
 SACRAMENTO, Sacramento Co., Cal.
 No. 3791 19th St.
 Two-story frame and stucco residence (7 rooms).
 Owner—Frank Mead, Rt. 1, Box 347, Sacramento.
 Architect—Not Given.
 Contractor—Mead & Mead Constr. Co., Fremont.

Plans Being Figured.
 RESIDENCE Cost, \$5500
 BERKELEY, Alameda Co., Cal.
 One-story and basement frame and stucco residence (6 rooms).
 Owner—A. J. Martin, 1040 Murray St., Berkeley.
 Architect—F. H. Slocombe, 62 York Drive, Berkeley.

Plans Being Prepared.
 RESIDENCES Cost, \$7500 and \$8000
 SAN FRANCISCO, San Mateo and Santa Clara Counties in San Francisco and Peninsula District.
 Group of 85 one-story and basement stucco residences.
 Owner—Eastern Corp. (Name withheld).
 Architect—Jos. L. Stewart, 206 Sansome St., San Francisco.
 Financial arrangements are now being worked out.

Plans Being Completed.
 RESIDENCE Cost, \$8000
 STOCKTON, San Joaquin Co., Cal.
 One and one-half-story frame and stucco residence.
 Owner—A. C. Weber, 1766 W Willow St., Stockton.
 Architect—Glenn Allen, Union Block Bldg., Stockton.
 Plans will be ready for bids in one week.

Plans Complete.
 BUNGALOW COURT Cost, \$12,500
 SAN RAPHAEL, Marin Co., Cal.
 Frame and stucco bungalow court.
 Owner—F. Mendenhall, 5% architect.
 Plans by L. F. Hyde, 372 Hanover St., Oakland.

Bids will be called for as soon as financing arrangements are completed.

Plans Being Completed.
 RESIDENCE Cost, \$7500
 BERKELEY, Alameda Co., Calif. 706 Hilldale Avenue.
 1½-story and basement frame and stucco residence (6 rooms; English type).
 Owner—S. C. Couper, Berkeley.
 Plans by Mr. Walker.
 Contractor—J. M. Walker, 1709 Grove St., Berkeley.

Wood panel walls, shingle roof, gas furnace, concrete double garage. Sub-bids will be taken shortly.

Preparing Working Drawings.
 RESIDENCE Cost approx. \$4,000
 MONTEREY, Monterey Co., Cal.
 Two-story and basement frame and stucco residence (12 rooms).
 Owner—A. F. Eingall.
 Architect—Williams and Wastell, 374 17th St., Oakland.
 Plans will be ready for bids in about three weeks.

SCHOOLS

Plans Being Figured—Bids Close Jan. 30th
 SCHOOL Cost, \$400,000
 LOS ANGELES, Los Angeles Co., Cal.
 No. 2955 Robertson Blvd.
 Group of reinforced concrete and brick school buildings (10 rooms, cafeteria, etc.)
 Owner—Los Angeles City School Dist.
 Architect—J. C. Austin and F. M. Ashley, Los Angeles.

Plans Completed
 SCHOOL Cost, \$225,000
 PASADENA, Los Angeles Co., Cal.
 Lake Avenue.
 Reinforced concrete Junior High School.
 Owner—Pasadena City School District
 Architect—Marston & Maybury, 25 S. Euclid Ave., Pasadena.

Plans Being Figured—Bids Close Jan. 31, 7:30 P. M.

ADDITIONS Cost, \$—
 PACIFIC GROVE, Monterey Co., Cal
 Furnish and install stage curtain, stage cyclorama and auditorium window drapes; furnish and install electric light fixtures and lamps for high school additions.

Owner—Pacific Grove High School District, Dr. J. J. Williams, Clerk.
 Architect—W. H. Weeks, III Sutter St., San Francisco.

Certified check 5% payable to clerk required with bid. Specifications obtainable from the San Francisco office of the architect and the San Jose office in the Bank of Italy Bldg., also file in the office of the secretary of the board of trustees at Pacific Grove.

SANTA CRUZ, Santa Cruz Co., Cal.
 —Until February 3, 8 P. M., bids will be received by C. R. Holbrook, secretary, Board of Education, for the sale and removal of the old main building and church on the Gault School premises at Seabright and Effey streets. Specifications obtainable from secretary.

Plans Being Prepared.
 AUDITORIUM Cost, \$25,000
 SACRAMENTO, Sacramento Co., Cal.
 One-story and basement brick auditorium.

Owner—St. Joseph's Academy.
 Architect—Harry Devine, California State Life Bldg., Sacramento.
 Plans will be ready for bids in about thirty days.

Sub-Contracts Awarded.
 SCHOOL Cost, \$—
 SAN FRANCISCO, Noe and 25th Sts.
 Class A Junior high school building (3-story and basement concrete, Travertine exterior, tar and gravel roof; to accommodate approx. 800 students).

Owner—City and County of San Francisco.
 Architect—Crim, Resing and McGuinness, 483 Pine St.
 Contractor—Anderson & Ringrose, 320 Market St.
 Excavation and Grading—J. P. Holland, 1374 McKinnon Ave.
 Reinforcing Steel—Truscon Steel Co., Call Bldg.
 Marble—J. E. Back Co., 1533 San Bruno Avenue.

Lumber—Loop Lbr. Co., Central Basin Acoustic Treatment—Western Asbestos Magnesia Co., 25 South Park.
 As previously reported plumbing & gas fitting awarded to Turner Co., 329 Tehama St.; mechanical equipment to Herman Lawson, 465 Tehama St.; electric work to Alta Electric Co., 976 Indiana St.

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Bids Wanted—To Close Feb. 9th.
SCHOOL Cost, \$200,000
 ALTADENA, Los Angeles Co., Cal.
 Lake Ave. near Calveras St.
 Reinforced concrete Junior High
 School (auditorium to seat 900).
 Owner—Pasadena City School Dist.
 Architect—Marston & Maybury, 25 S.
 Euclid Ave., Pasadena.

Bids Wanted—To Close Feb. 5.
LABORATORY Cost, \$129,000
 LA JOLLA, San Diego Co., Cal.
 Scripps Institution of Oceanography.
 Two-story reinforced concrete laboratory
 (46x100 feet).
 Owner—University of California, 405
 Hilgard Ave., Los Angeles.
 Architect—Louis J. Gill, 32 Sefton
 Bldg., San Diego.

Bond Election Planned.
SCHOOL Cost, \$230,000
 VALLEJO, Solano Co., Cal.
 Class C brick or concrete Junior High
 School.
 Owner—Vallejo Junior High School
 District.
 Architect—Davis-Pearce Co., Grant
 and Weber Sts., Stockton.

BERKELEY, Alameda Co., Calif.—
 Pacific Mfg. Co., Monadnock Bldg.,
 San Francisco, at \$4670 awarded con-
 tract by Regents of the University of
 California for furnishing and install-
 ing laboratory equipment and furni-
 ture in the Agricultural Hall and Hil-
 gard Hall, on the campus of the Uni-
 versity of California.

SAN FRANCISCO.—Judson Pacific
 Co., 609 Mission St., at \$7495 submit-
 ted lowest bid to Board of Public
 Works to furnish, fabricate and de-
 liver structural steel for the proposed
 James Lick Junior High School, the
 contract for erection of which has al-
 ready been awarded to J. Gerrick and
 Co., 74 New Montgomery St., at \$2,568.
 Following is a complete list of bids:
 Judson Pacific Co. \$7,495
 McChittie-Marshall Co. 7,496
 Dyer Brothers. 7,600
 Golden Gate Iron Works. 7,800
 Minneapolis-Moline Power Co. 7,834
 Schrader Iron Works. 7,990
 Bids held under advisement.

Contracts Awarded.
GYMNASIUM Cost, \$50,000
 KENTFIELD, Marin Co., Cal.
 Gymnasium (wood frame, roof trusses
 over gymnasium proper carried on
 steel columns) planting lawns and
 shrubbery, etc., at college grounds.
 Owner—Marin Junior College District.
 Architect—A. A. Cantin, 544 Market
 St., San Francisco.

General Work
 Young & Horstmeyer, 481 Market St.,
 San Francisco, \$4,662
Electrical Work
 North Bay Electric Co., San Rafael,
 \$2134.

Contracts awarded on alternates
 Nos. 1, 2, 3, 7, 10 and possibly 13.
 (Same may be obtained at this office
 upon request.)

Bids on heating and painting were
 rejected. New bids will be called for
 shortly.
 Complete list of bids published Jan.
 16th.

To Vote Bonds At Election Feb. 11.
SCHOOL Cost, \$87,000
 YUBA CITY, Sutter Co., Cal.
 Two-story brick elementary school.
 Owner—Yuba School District; C. P.
 Taylor, Roy E. Cassidy and Eliza-
 beth Z. Littleton (clerk), trustees
 of District.
 Architect—Davis-Pearce Company Inc.
 Builders' Bldg., Stockton.

SAN JOSE, Santa Clara Co., Cal.—
 Until March 10, 3 P. M., bids will be

received by Walter L. Bachrodt, sec-
 retary, Board of Education, to fur-
 nish and deliver:

(a) Steel Lockers
 (b) Electrical Fixtures
 for school department. Specifications
 on file in office of City Superintendent
 of Schools.

Plans Completed.
SCHOOL Cost, \$225,000
 ALTADENA, Los Angeles Co., Cal.
 Lake Avenue.
 Reinforced concrete Junior High
 School.
 Owner—Pasadena City School District
 Architect—Marston & Maybury, 25 S.
 Euclid Ave., Pasadena.

Plans Being Prepared.
SCHOOL Cost, \$30,000
 SANTA CLARA, Santa Clara Co., Cal.
 Reinforced concrete elementary school
 Owner—Santa Clara School District.
 Architect—Ralph Wyckoff, 19 N 2nd
 St., San Jose.
 This structure will be financed with
 monies now in the district's Reserve
 Fund.

Plans Being Prepared.
SCHOOL Cost, \$40,000
 SANTA CLARA, Santa Clara Co., Cal.
 Reinforced concrete annex to high
 school.
 Owner—Santa Clara School District.
 Architect—W. H. Weeks, 111 Sutter
 St., San Francisco.
 This structure will be financed with
 monies now in the district's Reserve
 Fund.

SAN JOSE, Santa Clara Co., Cal.—
 Until February 3, 10 A. M., bids will
 be received by Walter L. Bachrodt,
 secretary, Board of Education, to fur-
 nish and install library furniture for
 school department. Specifications ob-
 tainable from City Superintendent of
 Schools.

Prospective Bidders.
GYMNASIUM, ETC. Cost, \$—
 MONTEREY, Monterey Co., Cal.
 One-story reinforced concrete aca-
 demic building with tile roof.

Owner—Monterey Union High School
 District.
 Architect—Swartz & Ryland, Spazier
 Bldg., Monterey.
 Following is a partial list of the
 prospective bidders:

General Work
 M. J. Murphy, Carmel.
 Union Supply Co., 686 Lighthouse,
 Monterey.

W. P. Sweeney, 781 Del Monte Blvd.,
 Pacific Grove.

Brick Work
 E. H. Raymond, 722 Granite, Pacific
 Grove.

Linoleum
 Rudolph Furniture Store, 861 Light-
 house, Monterey.

Plastering
 W. N. Ingram, 850 Archer, Mont-
 erey.

A. B. Jacobsen, Monterey.
Ornamental Roof Tile

C. L. Frost, 465 Webster, Monterey.

Hardware
 R. M. Wright, 670 Lighthouse, Pa-
 cific Grove.

Plumbing, Heating and Sheet Metal
 Burton Oil-O-Matic, 635 Cass, Mont-
 erey.

Phillips Plumbing Co., 130 Pearl,
 Monterey.

Mill Work
 T. A. Work, Monterey.

Painting
 R. Page, Monterey.

Electric Work
 Chang, Langlais, 472 Tehama Street,
 San Francisco.

McConnell Electric Works, 443 Al-
 varado, Monterey.

T. B. Reardon, Carmel.
 Bids are to be opened Feb. 16, 7:30
 P. M.

SANTA CRUZ, Santa Cruz Co., Cal.
 —Roberts Mfg. Co., 663 Mission Street,
 San Francisco, at \$1,915, awarded con-
 tract by Board of Education to fur-
 nish and install lighting fixtures for
 new Laurel, Gault and Mission Hills
 Schools.

Following is a complete list of bids:
 Roberts Mfg. Co., S. F. \$1,915
 Thomas Day, San Francisco. 1,932
 I. Smith, Santa Cruz. 2,412
 Boyd Lighting Fixture Co., S. F. 2,511
 Mission Electric Co. 2,605
 John Holt, Santa Cruz. 2,735
 T. L. Rosenbers, Oakland. 2,255
 Window shade bids under advise-
 ment. Complete list of itemized bids
 on file in this office.

LOS ANGELES, Cal.—Sarver &
 Zoss, Inc., 727 W. 7th St., submitted
 low bid of \$151,960 on general contract
 to Los Angeles Board of Education for
 Class A reinforced concrete school
 auditorium (98x190 feet) at the Uni-
 versity High School site, Southeast
 corner of Texas and Westgate Aves.,
 Sawtelle. Other low bids were: Pohl-
 Brown Co., 793 E. 17th St., painting at
 \$290; R. M. Wilson, 210 S. Flower St.,
 heating and ventilating at \$21,597;
 American Electric Constr. Co., 722 S.
 Towne Ave., electric wiring at \$7730;
 Coony & Winterbottom, 2425 Hunter
 St., plumbing at \$6712. Plans were
 prepared by the business department
 of the Board, W. E. Record, manager.
 A. S. Niebecker Jr., architect.

Preparing Preliminary Sketches.
COLLEGE BLDGS. Cost, \$6,000,000
 SAN FRANCISCO. Vicinity of present
 Masonic Cemetery.
 Group of college buildings.
 Owner—San Francisco University.
 Architect—Edward A. Eames, 353 Sacra-
 mento Street.

Structures will include quarters for
 the following studies: Science, \$500,-
 000; law, \$250,000; library, \$200,000;
 gymnasium, \$230,000; auditorium, \$100,-
 000; medical unit, \$350,000; stadium
 (cost not determined); purchase of
 athletic equipment, \$690,000, and stu-
 dents' union building, \$100,000.

Commissioned To Prepare Plans
ANNEX TO SCHOOL Cost \$20,000
 HIEBER, Lassen Co., Cal.
 Three classroom and gymnasium
 annex for Bieber High School
 Owner—Lassen County High School
 District.
 Architect—Ralph D. Taylor, Alturas.

Commissioned To Prepare Plans.
SCHOOL Cost, \$—
 LOS BANOS, Merced Co., Cal.
 Brick and concrete high school plant.
 Owner—West Side Union High School
 District.
 Architect—W. D. Coates Jr., Rowell
 Bldg., Fresno.

A bond election will be held to secure
 funds to finance construction. The
 amount of the bonds to be voted has
 not yet been determined.

LOS ANGELES, Cal.—The Los An-
 geles Board of Education has adopted
 plans and specifications prepared by
 John C. Austin and Frederick M.
 Ashley, 608 Chamber of Commerce
 Bldg., for three-story reinforced con-
 crete and brick 44-room, classroom
 and library building, 72x316 feet; two-
 story, ten-room cafeteria building, 90x
 128 feet; part two-story, 18-room phys-
 ical education building, 72x180 feet,
 and one-story nine-room shop build-
 ing, 75x156 feet, at 2955 Robertson
 Blvd. (Alexander Hamilton High
 School site). Cost, \$400,000.

SANTA BARBARA, Cal.—The Min-
 ton Co., Front St., Mountain View,

submitted the low bid of \$174,672 on general contract to the Santa Barbara Board of Education January 12 for the erection of a new school building on the McKinley site in Santa Barbara. California Electric Corp., Santa Barbara, submitted the low bid of \$5918 on electrical work and Ott Hardware Co., Santa Barbara, submitted the lowest combined bid of \$24,677 on plumbing, heating and ventilating. The Board of Education will probably award contracts to the low bidders. Soule, Murphy & Hastings, architects, 15 E. Sola St., Santa Barbara, the building will contain fifteen classrooms and will be a masonry structure with stucco exterior and the roof. The bids follow:

General—The Minton Co., \$174,672; Gene B. Foster, \$178,493; J. J. Munne-man, \$178,885; Johnson & Hansen, \$181,472; W. L. Snook, \$181,989; Christ Thoren, \$183,650; A. L. Vezina, \$186,000; J. P. Sullivan, \$188,894; J. F. Kehler \$189,500.

Electrical Work—California Electric Corp., \$5918; Flynn Electric Co., \$6230; Campbell Electric Co., \$6495; Nielson-Smith Electric Co., \$6748; American Electric Constr. Co., \$7320.

Plumbing, Heating and Ventilating—Ott Hardware Co., (1) plumbing, \$10,894, (2) heating, \$12,783, (3) ventilating, \$995; Sweeny & Sons (1) \$11,894, (2) \$14,890, (3) \$1060; Kenneth Fraser, (1) \$11,994, (2) \$14,008, (3) \$1094; Hickman Bros. (1) \$13,562, (2) and (3) combined, \$15,610; Tom Windas, (1) no bid, (2) \$13,587, (3) \$1250; H. O. Ehlen (1) no bid, (2) \$16,961, (3) no bid; Messenger & Montgomery, (1) no bid, (2) no bid, (3) \$850.

LOS ANGELES, Cal.—Ernest C. Moore, Director of the University of California at Los Angeles, announces funds are now available for construction of two new gymnasiums on the campus of University at Westwood. One of the buildings to be designed for the use of female students and the other for men. Estimated cost \$750,000. Allison & Allison, 1905 California Reserve Bldg., Los Angeles, architects for one of the buildings and George W. Kelham, 315 Montgomery St., San Francisco, will be the architect for the other.

BANKS, STORES & OFFICES

Contract Awarded.
ALTERATIONS Cost, \$30,000
SACRAMENTO, Sacramento Co., Cal.
Ninth St. near K St.
Alterations and additions to one-story and basement brick store and bank.
Owner—Peoples Finance & Thrift Co., 1005 8th St., Sacramento.
Architect—Chas. F. Dean, California State Life Bldg., Sacramento.
Contractor—Campbell Const. Co., 800 R St., Sacramento.

Completing Plans.
STORE Cost, \$100,000
PHOENIX, Arizona, First Avenue and Adams Street.
Two-story class B concrete store (78x 150-ft.)
Owner—Dr. R. W. Craig.
Architect—Morgan, Walls & Clements, Van Nuys Bldg., Los Angeles.

Owner Taking Bids.
STORE Cost, \$5000
MONTE VISTA, Santa Clara Co., Cal.
One-story frame and stucco store.
Owner—C. Riffredi, Sunnyvale.
Architect—Wolfe & Higgins, Realty Bldg., San Jose.

Sub-Contracts Awarded.
OFFICES Cost, \$50,000
SAN FRANCISCO, Post and Scott Sts.
Three-story brick office building.
Owner—Eureka Benevolent Society, 436 O'Farrell St.
Architect—Hyman & Appleton, 68 Post Street.
Contractor—A. F. and C. W. Mattock, 212 Clara St.
Glass—Cobbledick - Kibbe Glass Co., 666 Howard St.
Sheet Metal—Metals Const. Co., 112 Howard St.
Mill Work—Lannom Bros., Fifth and Magnolia Sts., Oakland.
Terra Cotta—Gladding, McBean & Co., 660 Market St.
Structural Steel and Ornamental Iron—Folsom Street Iron Works, 11th and Missouri Sts.
Reinforcing Steel—W. C. Hauck & Co., 280 San Bruno Ave.

As previously reported painting contract awarded to D. Zelinsky & Sons, 165 Grove St.; heating to Jas. Pinkerton, 918 Howard St.; plumbing to E. Sugarman, 3624 Geary St.; electric wiring to Atlas Elec. & Eng. Co., 343 4th St.

Plans Being Figured.
STORE Cost, \$10,000
SAN JOSE, Santa Clara Co., Calif.
Two-story frame and stucco store and residence.
Owner—Della Maggiore.
Architect—Wolfe and Higgins, Realty Bldg., San Jose.

Plans Being Completed.
STORE Cost, \$50,000
BAKERSFIELD, Kern Co., Cal. I and N 19th Sts.
One-story and basement class C brick store.
Owner—Bank of America.
Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.
Lessee—J. Newberry Co.
Plans will be ready for bids in about one week.

Plans Being Prepared.
STORE Cost approx. \$500,000
OAKLAND, Alameda Co., Cal. Broadway.
Three-story class A department store. Owner—Isadore Weinstein, 1941 Market St., San Francisco.
Architect—Wm. Knowles, 1214 Webster St., Oakland.

Contract Awarded.
ALTERATIONS Cost, \$4000
OAKLAND, Alameda Co., Cal. 22nd and Grove Sts. (Key Route Inn).
Minor alterations to building.
Owner—Key Route Inn, premises.
Architect—Kent & Hass, 525 Market St., San Francisco.
Contractor—Jensen & Pedersen, 3443 Adeline St., Oakland.

CALIFORNIA—Architect H. A. Minton, Bank of America Bldg., Eddy and Powell Sts., San Francisco, is taking bids for chromium plated bronze signs to replace those on American Bank buildings throughout California. Thollander Const. Co., Cal Bldg., San Francisco, has the contract to remove old signs.

Preparing Plans.
STORE Cost, \$750,000
LOS ANGELES, Cal. Hollywood Blvd. near Wilcox.
Twelve-story and basement Class A reinforced concrete and steel store and offices.
Owner—Thomas D. Barnett.
Architect—Morgan, Walls & Clements, Van Nuys Bldg., Los Angeles.
Contractor—Lindgren & Swinerton, Inc., 523 W. Sixth St., Los Angeles.

Sub-Contracts Awarded.
REMODELING Cost, \$—
SAN FRANCISCO, S Post Street bet. Grant Ave. and Kearny St.
Remodel present building for sporting goods store.
Owner—A. Carlisle Co., Upham and Rutledge, 135 Post St.
Architect—Willis Polk & Co., 277 Pine Street.
Lessee—Shreve & Barber, 441 Kearny Street.
Contractor—William Spivock, Hobart Bldg.
Lumber—J. H. McCallum Lumber Co., 748 Bryant St.
Stairs—Atlas Stairbuilding Co., 12 Enterprise St.
Travelrite—F. Grassi, 1945 San Bruno Avenue.
Plumbing—Frank Davison, 65 Chesley Street.
Glass—Tyre Brothers Glass Co., 666 Townsend St.
Electrical—Apex Electric Co., 154 Leavenworth St.
Steel Sash—Michel & Pfeffer Iron Works, Harrison and 10th Sts.
Concrete—Golden Gate Atlas Materials Co., 16th and Harrison Sts. (42nd list report Dec. 22, 1930; 5th, Jan. 20, 1931, 16

Preparing Preliminary Plans.
STORE, ETC. Cost, \$—
MONTEREY, Monterey Co., Cal. Alvarado Street.
Two-story reinforced concrete store building, social hall, etc. (Spanish type).
Owner—E. B. Gross, Reeside and Wave Sts., Monterey.
Architect—Swartz and Ryland Spazier Bldg., Monterey; Brix Bldg., Fresno, and 373 Main St., Salinas.

Plans Being Figured.
STORES Cost approx. \$40,000
SAN LUIS OBISPO, Cal.
Three-story steel frame and concrete store, offices and apartments.
Owner—John Norton, San Luis Obispo.
Architect—Wm. Mooser Co., Monadnock Bldg., San Francisco.

Preparing Working Drawings.
STORES Cost, \$1,000,000
OAKLAND, Alameda Co., Cal. NW Twenty-first St. and Broadway.
Eight-story and basement Class A reinforced concrete furniture display rooms and stores, 100x280 feet.
Owner—Pacific States Auxiliary Corp. Lessee—John Brenner Co., 15th and Clay Sts., Oakland.
Architect—Albert F. Roller, 1st National Bank Bldg., San Francisco.
Engineer—H. J. Brunner, Sharon Bldg., San Francisco.

Plans Being Completed.
OFFICES Cost Approx. \$500,000
SACRAMENTO, Sacramento Co., Cal. Eighth and J Streets.
Sixteen-story and basement Class A reinforced concrete office building.
Owner—Henry Mitau et al, 1422 40th St., Sacramento.
Architect—George Sellon & Co., California State Life Bldg., Sacramento.
Segregated Bids To Be Taken In One

Contract Awarded.
REMODELING Cost, \$—
SAN FRANCISCO, S Post Street bet. Grant Ave. and Kearny St.
Remodel present building for sporting goods house.
Owner—A. Carlisle Co., Upham and Rutledge, 135 Post St.
Architect—Willis Polk & Co., 277 Pine Street.
Lessee—Shreve & Barber, 441 Kearny Street.
Contractor—William Spivock, Hobart Bldg.

Preparing Sketches.
STORE Cost, \$5000
SARATOGA, Santa Clara Co., Cal.
One-story frame and stucco store.
Owner—C. Riffredi.
Architect—Wolfe & Higgins, Realty Bldg., San Jose.

January 17 1931
Preparing Preliminary Plans.
STORE Cost, \$100,000
LOS ANGELES, Los Angeles Co., Cal.
Cay. Hollywood Blvd.
Two and three-story reinforced concrete store.

Owner—Col. Harry M. Balne.
Architect—Carl Julea Weyl, 6536 Sunset Blvd., Los Angeles.

Planned.
STORE Cost, \$—
LOS ANGELES, Cal. Hollywood Blvd near Whitley Avenue.
Four-story brick, concrete and steel store.
Owner—S. H. Kress & Co., Western Pacific Bldg., Los Angeles.
Architect—Eng. Dept. of Owner.

January 17, 1931
Mill Work Contract Awarded.
OFFICES Cost, \$30,000
SAN FRANCISCO. NE Army St. and Missouri.
Two-story and basement frame and stucco offices.
Owner—Soule Steel Co., 1750 Army St. Plans by Eng. Dept. of Owner.
Contractor—Chas. Stockholm & Sons, Russ Bldg.
Mill Work—Pacific Mfg. Co., Monadnock Bldg.
As previously reported, plumbing & heating awarded to James H. Pinkerton Co., 927 Howard St.; grading to Sibley Grading & Teaming Co., 145 Landers St.

Plans Being Figured
ALTERATIONS Cost, \$25,000
FRESNO, Fresno Co., Cal. No. 1045 Fulton Street.
Alterations to store (new front and interior work).
Owner—Clark's Dollar Store.
Architect—Marshall R. Lawson, 614 S. Pacific Ave., San Pedro.

Permit Applied For.
ALTERATIONS Cost, \$10,000
SAN FRANCISCO. N Turk Street E Larkin St.
Alterations and additions to stores and lofts (add one story).
Owner—Bell Bros., Mills Bldg.
Architect—W. D. Pugh, 333 Sansome.
Contractor—Cahill Bros., 296 Sansome Street.

Plans Being Figured.
BANK Cost, \$800,000
PHOENIX, Arizona. SE Central Ave. and Monroe Street.
Eleven-story Class A steel frame bank and offices.
Owner—Valley Bank & Trust Co.
Architect—Morgan, Walla & Clemente Van Nuy Bldg., Los Angeles.

Completing Plans.
BANK Cost, \$50,000
MONTEREY, Monterey Co., Cal. SE Alvarado and Franklin Sts.
One-story and basement reinforced concrete bank and store building (two stories).
Owner—E. F. Wright, Monterey.
Architect—W. H. Weeks, 111 Sutter St., San Francisco.
Lessee—Bank of Italy and Palace Drug Company.
Bids will be taken in two or three weeks. H. A. Minton, Bank of Italy Bldg., San Francisco, will prepare plans for interior bank fixtures, etc.

Plans Being Revised.
BANK Cost, \$60,000
LOS GATOS, Santa Clara Co., Cal. Main St. and Santa Cruz Avenue (52x100-ft.)
One-story reinforced concrete bank with tile roof (ornamental stone and acoustical plaster).
Owner—Bank of Italy.
Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.
There will be two stores, 20x72 feet, in connection with the building. Bids will be taken in a few days.

THEATRES

Preparing Plans.
THEATRE Cost, \$—
INGLEWOOD, Los Angeles Co., Cal. Masonry theatre (to seat 900).
Owner—United Artists Theatres of Calif., Ltd.
Architect—Walker & Eisen and C. A. Balch, Western Pacific Bldg., Los Angeles.

WHARVES AND DOCKS

ISLETON, Sacramento Co., Cal.—Engineering Department, Southern Pacific Railroad, 65 Market St., San Francisco, preparing plans for dock to be constructed at Isleton in connection with a 2½ mile r. r. extension from Isleton to Georgiana Slough and the Mokelumne river. The dock will cost \$55,000 and the railroad extension \$96,000.

Bids Opened.
SUB-STRUCTURE Cost, \$—
OAKLAND, Alameda Co., Cal. Foot of Webster Street.
Concrete sub-structure for Inland Waters Terminal; 152 ft. on harbor side, 285 ft. on slip side; also concrete viaduct 260 ft. by 33 ft.
Owner—City of Oakland (Port Commission), G. B. Hegard (secretary), Oakland Bank Bldg., Oakland.
Plans by Eng. Dept. of City Port Commission, Oakland Bank Bldg., Oakland.
Following is a complete list of bids:
M. B. McGowan, 74 New Montgomery St., San Francisco, \$121,844
Duncanson-Harrelson Co., San Francisco 123,168
A. W. Kitchen, S. F. 123,260
Merritt, Chapman & Scott, 124,509
Geo. Follock, Sacramento, 126,240
Healy-Thibbitts Const. Co., San Francisco 127,600
Schuler & MacDonald, Oakland 143,333
Bodenhammer Const. Co., 149,976
C. J. Nysted, Oakland, 158,730
Frederickson & Watson, Oakland 164,000
Bids held under advisement.

MISCELLANEOUS CONSTRUCTION

LOS ANGELES, Cal.—Until 9:30 A. M., January 23, bids will be received by Los Angeles Board of Education, Chamber of Commerce Bldg., for swimming pool and bleachers at Los Angeles High School site, located on southwest corner of Olympic and Rimpau Bldvs. (90x150 feet). The five kinds of contracts contemplated are: (1) general, (2) plumbing, (3) painting, (4) heating and ventilating, (5) electric wiring. Plans and specifications are on file at the secretary's office, 761 Chamber of Commerce Bldg. Plans by Architects John C. Austin and Frederick M. Ashley, 608 Chamber of Commerce Bldg. Cost, \$85,000.

VALLEJO, Solano Co., Cal.—Chamber of Commerce and City Council are seeking a site and plan improvements for a new airport to provide permanent accommodations for seven locally owned airplanes.

Plans Completed.
CHAPEL Cost, \$18,000
SAN ANSELMO, Marin Co., Cal. Two-story and basement frame and stucco chapel for undertaking establishment.
Owner—Berg & Guzman, Greenfield & Lincoln, San Anselmo.
Architect—N. W. Sexton, deYoung Bldg., San Francisco.
It is not decided just when bids will be called for.

SACRAMENTO, Calif.—Luppen and Hawley, 3126 J St., Sacramento, at \$21,500 submitted lowest bid to city clerk for electric lighting and wiring at the Sacramento Municipal Airport.
Following is a complete list of bids:
Luppen & Hawley, Sacramento, \$21,500
J. W. Terrell, Sacramento, 21,745
Geo. C. Foss, Sacramento, 22,832
Sterling Elec. Co., 22,840
The Turner Co., S. F., 24,190
Globe Elec. Co., S. F., 24,250
H. C. Reid, S. F., 24,285
Bids held under advisement for one week.

SACRAMENTO, Cal.—City Manager Jas. S. Dean has been authorized by the city council to make preliminary surveys for a vehicular tube beneath the Sacramento river. Crossings at M or Y streets are being considered.

EUREKA, Humboldt Co., Cal.—H. A. Anderson, Rio Dell, at \$784 awarded contract by county supervisors to move certain buildings at Garberville. Other bids were: R. L. Goodwin, \$850; G. H. Johnson and Robt. McCarty, \$880; E. Evans, \$1,000; Henry Padgett \$1,138; Bliven and Reese, \$2,138.

Plans Completed.
RESTAURANT, ETC. Cost, \$—
SACRAMENTO, Cal. Municipal Airport.
Ornamental gate entrance to Municipal Airport with one-story Spanish type restaurant building.
Owner—City of Sacramento, H. G. Denton, city clerk.
Architect—Charles F. Dean, California State Life Bldg., Sacramento.

SACRAMENTO, Calif.—City council will set date shortly to vote on question of issuing and selling bonds of \$450,000 to finance construction of a new sedimentation basin in connection with municipal filtration plant. Fred J. Klaus is city engineer.

POMONA, Los Angeles Co., Cal.—Karl Muck, County Architect, 10th Floor, Hall of Records, is preparing preliminary sketches for a permanent grandstand to be built at the Los Angeles County Fair Grounds, Pomona, to cost between \$150,000 and \$200,000. The stand, which will probably be a reinforced concrete structure, will seat about 18,000.

TULARE, Tulare Co., Cal.—Edgar Smith, chairman of a committee of local civic organization members, is conducting a campaign for funds to finance construction of a swimming pool to be the first unit in the construction of a community recreation center. The cost of the pool is estimated at \$10,000. Early construction is planned.

MISCELLANEOUS SUPPLIES AND MATERIALS

LOS ANGELES, Cal.—See "Hospitals," this issue. Bids wanted for miscellaneous fixtures and equipment for installation in Acute Unit of the Los Angeles General Hospital; bids to be opened February 3 and 16.

SAN MATEO, San Mateo Co., Cal. Until February 5, 4 P. M., bids will be received by John D. Bromfield, clerk, San Mateo Union High School District, to furnish and deliver fuel oil, lubricating oils and stove distillate, for the period beginning March 1, 1931, and ending February 23, 1932, as follows:

1. Fuel oil, commercial grade, in accordance with specification for Bunker Fuel "C" in United States Government Department of Commerce, Bureau of Mines, Technical Paper 323 B, except as to water and nonpetroleum sediment, delivered in tank truck load lots to the schools of the district as ordered.
2. Lubricating oils, Eastern and Western, light, medium, and heavy, delivered in barrel lots to San Mateo High Schools as ordered. Specify trade names.
3. Stove distillate, 36°-32° Gravity, 165° Flash, delivered in lots of two hundred gallons, more or less, to the schools of the district as ordered.

Bids may be submitted on any or all of the above items.

Further information obtainable from Superintendent of Schools, Bellevue Ave. and Delaware St., San Mateo.

SAN FRANCISCO—Until February 2, 3 P. M., under Proposal No. 679, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish 300 galvanized iron garbage cans for School Department. Specifications obtainable from above.

KENTFIELD, Marin Co., Cal.—Until February 2, 12 noon, bids will be received by Mary F. Seymour, secretary, Tamalpais Union High School District, to furnish and deliver:

- (a) Standard Typewriters;
 - (b) Noiseless Typewriters (Standard Make).
- Specifications obtainable from secretary.

SACRAMENTO, Cal.—Until January 22, 8:15 P. M., bids will be received by H. G. Denton, city clerk, to furnish one Moon-Hopkins Special Tax Billing Machine, for the office of the City Assessor - Collector. Certified check 5% payable to City Controller required with bid. Further information obtainable from clerk.

BUSINESS OPPORTUNITY

Frank O'Brien of O'Brien Sales Co., General Motors Bldg., Detroit, Mich., with patent rights on an electrically equipped advertising display is desirous of securing distributor.

R. P. Messer, sales manager for Trautman-Messer & Co., Inc., Wapakoneta, Ohio, manufacturers of cast iron and aluminum cooking utensils is interested in securing representation in San Francisco and adjacent territory.

J. Salkind, 258 Lake St., Albany, N. Y., wishes to make connection with concern in this section which is desirous of having an agent or a representative in the East.

E. W. Simons, vice-president of the Pittsburgh Reflector Co., 304 Ross St., Pittsburgh, Pa., wishes to appoint a

representative in the San Francisco district for the sale of reflectors designed to improve the lighting of store windows and displays.

Names and addresses of persons or firms concerned in the following opportunities will be furnished on request to Business Opportunity Department, Daily Pacific Builder, 547 Mission St., San Francisco or Phone Garfield 3744:

20775—Steel Materials. San Francisco. Firm in Germany is desirous of contacting local importers of steel beams, steel joists, angles, bars and other steel material.

20774—Calculating Machines. Berlin, Germany. Manufacturer of calculating machines of exceptional value at reasonable prices desires to get in touch with interested importers.

20772—Folding Boats. New York City. Manufacturers of folding boats are looking for local agents.

20776—Representation. Fiume, Italy. Party is anxious to represent local exporters or manufacturers, for Italy.

20790—Scrap Iron. Mexico, D. F. Party is anxious to contract firms interested in importing approximately ten thousand tons of mixed scrap iron.

D-3662—Eastern Representation. San Francisco. Gentleman wishes to contact local manufacturers or packers of products of distinctive Californian character who desire representation on Eastern seaboard.

D-3663—Representation. San Francisco. Local party interested in securing representation here for Eastern concerns, particularly mechanical or electrical lines.

D-3664—Representation. Seattle, Wash. Party interested in representing, in a sales capacity in the Pacific Northwest, a reliable manufacturer in San Francisco or California.

D-3665—Distribution. Portland, Ore. Sales Director interested in securing the names of those manufacturers, importers, and distributors who are interested in securing and maintaining distribution of their products throughout the Northwest.

D-3666—Distribution. Chicago, Ill. Firm wishes to contact reliable local man who is well enough acquainted with the department store and furniture store trade to get business on a few exceptional values in low priced furnishings and imports, including dollar day specials.

D-3667—West Bend, Wis. Manufacturer of brake testing machine wishes to contact with concern in this territory who would be interested in taking over the manufacture of this machine.

D-3668—Representation. San Antonio, Texas. Firm with established sales force is seeking new Californian products to handle.

D-3670—Distributor. Manufacturers of belting for power transmission in all the various types, also leather packings for pneumatic and hydraulic use; wish to secure distribution here.

D-3671—Dealers. Alexandria, Ind. Manufacturers of wool insulation for heat, cold and sound wish to contact with firms who would make good house insulating dealers.

The Department of Agriculture stands sixth in the number of employees of all the Government departments. The personnel numbers 25,736, according to figures compiled by the Civil Service Commission. There are 20,558 men and 5,178 women. One of the largest bureaus of the Department of Agriculture is the U. S. Forest Service, charged with the administration and protection of 159,750,000 acres of Government land included in 149 national forests, which has 2,710 permanent employees.

While detailed earnings figures are not available at this time, President Burnett of the Month Portland Cement Company, told stockholders at the annual meeting that the company had strengthened materially its current position during the year 1930. Current assets were 3.77 times current liabilities, as compared with a ratio of 2.1 at the end of the previous year. All officers and directors were re-elected.

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DAILY PACIFIC BUILDER

The only daily construction newspaper affording complete coverage of the construction activities in Central and Northern California — featuring work contemplated, bids wanted, bids opened, contracts awarded, sub-bids wanted and sub-contracts let on all types of building construction; bridges, dams and harbor works, irrigation projects; machinery and equipment; water works and supplies; business opportunities; building permits; building contracts, mechanics' liens; acceptances, etc., etc.

Keep informed on construction developments in Central and Northern California, and the major projects in Southern California, the states of Oregon, Washington, Nevada and Arizona.

Engineering News Section

BRIDGES

VENTURA, Ventura Co., Cal.—Until 10 A. M., Feb. 3, bids will be received by county supervisors to construct timber bridge 20 ft. wide and 20 ft. long with concrete paving and earth fill approaches, including:

- (1) 15,000 cu. yds. timber;
- (2) 7 cu. yds. class A paving concrete;
- (3) 850 lbs. reinf. steel;
- (4) 330 cu. yds. earth fill.

Cash Contract No. 716. This bridge will be built across the Canada Laguna near the Walker Ranch. Chas. W. Pettit, county surveyor.

MODESTO, Stanislaus Co., Cal.—County Surveyor Geo. Macomber is preparing revised plans for proposed Okadale bridge over the Stanislaus river. This structure is in addition to that for which \$103,500 is sought in the state budget for a bridge over the Stanislaus river on the main highway between Ripon and Salida.

ALBANY, Alameda Co., Cal.—City Engineer H. I. Dyserg is preparing plans for culvert over Cerrito Creek in Pomona Ave.; estimated cost \$500. Cost will be borne equally by the cities of Albany and El Cerrito.

PALO ALTO, Santa Clara Co., Cal.—City Planning Commission will recommend to the city council the construction of a subway under the Southern Pacific tracks at Embarcadero road, 8 blocks south of University Ave. A bond election is contemplated to finance the city's one-half share of the cost, the remaining half to be paid by the railroad. Tentative plans are also being considered by the Planning Commission for subways in University Ave. and at California Ave., 1 mile south of the University. The cost of the three subways is estimated at \$311,500 by City Engineer J. F. Byxbee.

SAN FRANCISCO—Formal application for a permit from the War Department to construct the proposed \$7,000,000 bridge over San Francisco Bay has been filed by Col. Walter E. Garrison, director of the State Department of Public Works, acting for the California Toll Bridge Authority, which will issue bonds and supervise construction of the bridge.

The application and plans prepared by State Highway Engineer C. H. Furell call for an 890-foot span on the Oakland side, but this may be changed, if deemed necessary, without further hearings by the War Department, once the permit is granted. Maj. E. H. Hopes of the Army Engineering Corps, San Francisco, states that it will be necessary to advertise the plans and application for approximately three weeks and hearings thereon will be started by three engineers from the War Department sent here from Washington.

JACKSON, Amador Co., Cal.—City council petitioned to construct bridge across South Jackson Creek to serve the Peak Hill Section. The council has ordered estimates of cost to be prepared.

PORTLAND, Ore.—Lindstrom & Feigenson, Railway Exchange Bldg.,

Portland, at \$87,417.50 for cedar piling, awarded contract by Multnomah County Commissioners to recondition the Hawthorne Bridge. Edelfesen-Weygrandt Co., 230 Front St., Portland, at \$35,000.75 awarded contract for abutments, paving and fill in connection with the same project.

STOCKTON, San Joaquin Co., Cal.—County supervisors will ask bids, once to construct subway under Southern Pacific tracks on the Lower Sacramento road in the Forrest Lake district; estimated cost \$26,000. The bids will probably be opened Feb. 9. Southern Pacific R. R. will share cost. Details will be published shortly.

YUBA CITY, Sutter Co., Cal.—County Supervisors have authorized reconstruction of the Feather River Bridge at Nicolaus to meet the demands of the War Department. The federal department, acting on a protest filed by the California Debris Commission, objected to the character of 160 feet of the causeway when the river cut a new channel during a flood period.

OAKLAND, Cal.—As previously reported, bids will be received February 3, 10:30 A. M., by George Gross, county clerk, to construct bridge on Redwood Road in Eden Township. The work involves the following approximate quantities:

- (1) 55 cu. yds. structure excav.;
- (2) 1100 ft. steel piles;
- (3) 125 cu. yds. concrete;
- (4) 21,000 lbs. reinf. steel;
- (5) 60,500 lbs. structural steel;
- (6) 170 ft. timber guard rail.

Plans and specifications obtainable from County Surveyor George Posey.

DREDGING, HARBOR WORKS & EXCAVATIONS

PORT BRAGG, Mendocino Co., Cal.—Dutton Dredge Co., Mills Bldg., San Francisco, awarded contract at \$178,720 by U. S. Engineer Office, San Francisco, to remove old jetty, construct new jetties and dredging in the Noyo river, approximately 1½ miles from Fort Bragg. Only other bidder was Healy-Thibbitts Const. Co., San Francisco. Project involves:

- (1) 110,800 cu. yds. dredging of sand, gravel, boulders and slabs.
- (2) 1,820 cu. yds. rock to be removed from river;
- (3) 8,000 tons of rock (removed from old jetty) and placed in new jetty; 750 cu. yards concrete (removed from old jetty). Total sum for both; to be furnished and placed in 2,000 ton units;
- (5) 240 ft. sheet pile bulkhead (new jetties).

Unit figures follow:

	Dutton Dredge	Healy-Thibbitts
(1)	\$ 48	\$.60
(2)	2.10	10.00
(3)	21,200.00	45,000.00
(4)	3.75	4.50
(5)	21.00	20.00

PORTLAND, Ore.—Kern and Kibbe, 230 E. Salmon St., Portland, under Schedule A, at \$29,596.31 submitted low bid to U. S. Engineer Office, Portland, to construct three dikes at Martin Island bar.

Parker Schram, Couch Bldg., Portland, under Schedule B, at \$14,126.96 submitted low bid to construct one dike at Martin Island bar.

Gilpin Const. Co., Worcester Bldg., Portland, under Schedule C, at \$14,329.13 submitted low bid to construct two spur dikes at Dokelbower bar.

The above work is in connection with the construction of 4,340 lin. ft. of pile dikes in the Columbia river below the mouth of the Willamette.

SACRAMENTO, Cal.—City Manager Jas. S. Dean has been authorized by the city council to make preliminary surveys for a vehicular tube beneath the Sacramento river. Crossings at M or Y streets are being considered.

OAKLAND, Cal.—Until January 26, 4:30 P. M., bids will be received by G. B. Hegardt, secretary, City Port Commission, 424 Oakland Bank Bldg., for dredging in slip of Inland Waterways Terminal at foot of Franklin and Webster Sts., involving 20,000 cu. yds. Specifications obtainable from above.

STREET LIGHTING SYSTEMS

ALAMEDA, Alameda Co., Cal.—City council will start proceedings shortly for ornamental electrolux system in Third Street, 50% of the property owners having petitioned for the work. Burnett Hamilton, city engineer.

BEVERLY HILLS, Los Angeles Co., Cal.—Until 8 P. M., Feb. 10, bids will be received by the city for approximately 1100 8x16-in. ball globes for street lights.

SAN MATEO, San Mateo Co., Cal.—See "Streets and Highways," this issue. Proceedings started by city to resurface streets and install electrolux.

MACHINERY AND EQUIPMENT

HANFORD, Kings Co., Cal.—Until February 4, 7 P. M., bids will be received by D. C. Williams, city clerk, to furnish coupé automobile for use of fire chief. Specifications on file in office of clerk.

HOLTVILLE, Imperial Co., Cal.—Until February 4, 5 P. M., bids will be received by E. M. Carpenter, city clerk, to furnish one 2-ton truck with flat rack, hydraulic hoist and dual rear wheels. Further information obtainable from above.

OAKLAND, Cal.—Until January 29, 12 noon, bids will be received by F. C. Merritt, city clerk, to furnish and deliver three motor trucks for use of street department. Specifications on file in office of clerk. Walter N. Frickstad, city engineer.

EUREKA, Humboldt Co., Cal.—Until January 29, 2 P. M., bids will be received by W. H. Pierce, superintendent of equipment, Shop No. 1, State Highway Commission, Eureka, for the purchase of the following equipment no longer required: CHC 2967 Ford Express Model A.

CHC 3027 Pontiac Sedan 4-door.

Bidders may make offers for one or more items, but must state price offered for each item. No lump sum bids will be considered.

All equipment may be inspected at the Division of Highways yards at Eureka from 8:30 A. M. to 4:30 P. M.

SACRAMENTO, Cal.—Until Jan. 29, 2 P. M., bids will be received by W. H. Reichel, superintendent of equipment, Shop No. 10, State Highway Commission, 1802 34th St., for the purchase of the following equipment no longer required:

CHC 2647 Ford Tudor Sedan.
CHC 2666 Ford Tudor Sedan.

CHC 41 Sullivan Portable Air Compressor, 170 cu. ft. capacity.

CHC 227 Austin 8-ft. Giant Grader.
CHC 228 Austin 8-ft. Jr. Rip Shorter Grader.

Bidders may make offers for one or more items, but must state price offered for each item. No lump sum bids will be considered.

All equipment may be inspected at the Division of Highways yards at 1802 34th St., Sacramento, from 8:30 A. M. to 4:30 P. M.

MADERA, Madera Co., Cal.—Until

February 2, 10 A. M., bids will be received by L. W. Cooper, county clerk, to furnish one new 35 Monarch Tractor, f. o. b. Madera and for the sale of one used 30-Best Tractor no longer required by the county. Further information obtainable from clerk.

REDDING, Shasta Co., Cal.—Until

January 23, 2 P. M., bids will be received by J. M. O'Walley, superintendent of equipment, Shop No. 2, State Highway Commission, Redding, for the purchase of the following equipment, no longer required:

CHC 1855, Liberty Dump Truck.
CHC 2490, Dodge Touring Car, 1924 model.

CHC 2673, Dodge Touring Car, 1923 model.

CHC 54 Ingersoll-Rand Drill.
CHC 34 Royal Special Grader.

CHC 72 Spearswells Grader Tractor Attachment.

CHC 6, Jaeger, 1-2 sack Concrete Mixer.

CHC 39, Marion 1 cu. yd. type 7 Gas Electric Shovel.

CHC 181, McCormick-Deering Tractor

Bidders may make offers for one or more items, but must state price offered for each item. No lump sum bids will be considered.

All of the above equipment, except CHC 39 Shovel, may be inspected at the Division of Highways' yards at Redding. CHC 39 Shovel may be inspected at Convict Camp 24. Orville.

BEVERLY HILLS, Los Angeles Co.,

Cal.—Until 8 P. M., Feb. 10, bids will be received by the city for the construction of one hand derrick. Specifications are on file at office of Street Superintendent.

STOCKTON, San Joaquin Co., Cal.—

Until January 26, 5 P. M., bids will be received by M. E. Page, city clerk, to furnish and deliver:

- (a) 1½ ton truck with closed cab;
- (b) two sedan automobiles;
- (c) one coupe automobile.

Allowances to be made for cars no longer required by the city. Certified check 10% payable to City Auditor required with bid. Further information obtainable from clerk.

BAKERSFIELD, Kern Co., Cal.—

Until February 2, 4 P. M., bids will be received by Wm. Gleason, clerk, Kern County Union High School District, Fourteenth and F Sts., to furnish and deliver one or more transportation

chassis and one or more bodies for same Specifications obtainable from

clerk

RENO, Nev.—Following bids taken under advisement by Washoe County Commissioners to furnish and deliver one ½-yd full swing gasoline shovel: Hanson Clutch and Machinery

Co.	\$6,610
Leigh M. Railroad.....	6,689
Curtis Machinery Co.....	7,176
Snelson Motor Co.....	7,250
(a).....	8,266
(b).....	9,127
Harron, Rickard & McCone.....	7,350
Calvada Auto Co.....	7,790
Industrial Brownhoist Corp.....	7,860
Collier Tractor and Equip. Co.....	7,885
Osen Motor Sales Co.....	8,162
Northwest Engineering Co.....	8,912
Eucyrus-Erie Co.....	8,865
Edw. R. Bacon Co.....	9,280

WANTED

TO PURCHASE USED Linn Tractor Truck, Lidlral-Wiley, Inc., 205 Columbia St., Seattle Washington.

RAILROADS

ISLETON, Sacramento Co., Calif.—Southern Pacific R. R., 65 Market St., San Francisco, authorized by Interstate Commerce Commission to construct 2½ mile feeder extension from Isleton to Georgiana Slough and the Mokelumne river. The railroad will cost \$96,000. A dock will be constructed at Isleton at a cost of \$55,000.

SAN FRANCISCO, Columbia Steel Corp. and Pacific Steel Corp., San Francisco, awarded contract by Southern Pacific R. R., 65 Market St., San Francisco, to furnish the bulk of an order for 63,764 tons of rail steel for the railroad's requirements during 1931. The remainder of the order has been let to the Colorado Steel & Iron Co., of Denver.

HOOVER DAM RAILWAY—A complete list of the total bids for the construction of the Hoover Dam Railway, as submitted to the U. S. Bureau of Reclamation at Las Vegas, on January 12, follow:

Lewis Const. Co., Los Angeles, \$455,595.50 (low as previously announced).
J. F. Shea Co., Portland, \$469,028.

Merritt-Chapman & Scott Corp., San Pedro, \$486,936.

Utah Const. Co., Ogden Utah, and Morrison-Knudsen Co., Boise, Idaho, \$534,704.

General Const. Co., Seattle, \$537,263.50.

Healy-Thibbitts Construction Co., San Francisco, \$546,114.

O. A. Lindbergh, Stockton, \$557,713.
Siems-Spokane Co., Spokane, \$629,552.50.

Hamilton-Gleason Co., Denver, \$657,540.

L. Romano Eng. Corp., Seattle, \$719,548.

Schuler and McDonald, Inc., Oakland, \$732,567.50.

Mitty Bros. Const. Co., Los Angeles, \$822,108.

The bid of Merritt-Chapman & Scott Corp. contained a stipulation that the corporation would only accept the railway contract in the event it was also awarded the Hoover Dam Highway contract.

The proposed railway consists of 10.23 miles of track, using second-hand or relay rails, extending from Summit, where a connection will be made with the Union Pacific Ry. from Las Vegas to the site of the Hoover

Dam. The work is located between 25 and 30 miles southeast of Las Vegas.

SACRAMENTO, Calif.—Interstate Commerce Commission is giving favorable consideration to the application of the Sacramento Northern R. R., electric subsidiary of the Western Pacific R. R., for authorization to extend its Westfield-Tyde branch eight miles into the territory across the Sacramento river.

SEATTLE, Wash.—Bids will be asked at once by Board of Public Works to construct municipal street car line in 8th Avenue northwest from Leary Way to West 85th St.; estimated cost \$160,000.

FIRE EQUIPMENT

OAKLAND, Cal.—Until January 23, 12 noon, bids will be received by F. C. Merritt, city clerk, to furnish:

- (a) 10,000 ft. 2½-in. fire hose;
- (b) 4,000 ft. 1½-in. fire hose.

Certified check 10% payable to city required with bid. Specifications obtainable from city clerk.

PACIFIC GROVE, Monterey Co., Cal.—Until February 5, 1:30 P. M., bids will be received by E. C. Hurlbert, city clerk, to furnish and deliver one 750-gallon pumping engine and hose car with booster tank. Certified check 10% payable to city required with bid. Specifications are on file in the office of Daily Pacific Builder and may be inspected by those interested.

LOS ANGELES, Cal.—Until 11 A. M. Feb. 4, bids will be received by the city purchasing agent, Thomas Ough-ton, for furnishing 30,000 ft. of 2½-in. fire hose; specifications No. 2315.

RESERVOIRS AND DAMS

GLENDALE, Los Angeles Co., Cal.—Mitty Bros. Constr. Co., 723 Detroit Bldg., Los Angeles, awarded the contract by the city council at \$499,000 for construction of two reservoirs on the city reservoir site. The reservoir will be built of rectangular shape, 22 ft. deep, with an area of 233,322 sq. ft. The reservoirs will be constructed adjoining, providing a total capacity of 25,000,000 gallons. They will be of the retaining wall type with reinforced concrete roof. The construction involves:

- 26,000 cu. yds. reinforced concrete;
- 10,000 cu. yds. excavation;
- 10,000 cu. yds. tamped embankment;
- 22,000 cu. yds. earth placed on concrete roof.

PIPE LINES, WELLS, ETC.

OAKLAND, Cal.—Pacific Coast Engineering Co., foot of 14th St., Oakland, at \$4500 submitted only bid to City Port Commission to furnish and deliver fifteen 45-ft. lengths of 20-in. welded steel dredge pipe. Taken under advisement.

SAN FRANCISCO—City Engineer M. M. O'Shaughnessy instructed by supervisors to prepare plans for Hetch Hetchy pipe line across the San Joaquin Valley from Oakland portal on the east side to the Tesla portal on the west; also for the construction of a pipe line from the Tesla portal to Altamont Pass with a pumping plant, to get Hetch Hetchy water into San Francisco ahead of the completion of the Coast Range tunnel which will probably require another three years.

SEWERS AND SEWAGE DISPOSAL PLANTS

January 16, 1931
ESTIMATES SUBMITTED

ATHERTON, San Mateo Co., Cal.—Geo. A. Kneese, consulting engineer, Redwood City, in report to town trustees estimates cost of culverts, ditches and storm sewers for relief of storm waters at \$24,000. Taken under advisement.

33

BERKELEY, Alameda Co., Cal.—Until January 27, 10 A. M., bids will be received by Florence E. Turner, city clerk, to construct storm sewer in west side of Garfield School grounds from Hopkins street southerly; estimated cost \$2000. Certified check 10% payable to city required with bid. Plans obtainable from Harry Goodridge, city engineer, on deposit of \$10, returnable.

FAIRFIELD, Solano Co., Cal.—J. C. Parsons, engineer, will present plans to county supervisors shortly for proposed sewage system to serve the home Acres and Petaluma Farm districts adjoining the city of Vallejo. Details will be published shortly.

MODESTO, Stanislaus Co., Calif.—City Engineer Frank J. Rossi instructed by city council to proceed with the construction of sewers in the industrial section at a cost of \$16,000. The work will be done on a day labor basis with a view to relieving the unemployment situation. Materials will probably be purchased in the open market although this has not been definitely decided. This work will be the first unit of a \$55,000 sewer construction program.

HILLSBOROUGH, San Mateo Co., Cal.—Until February 3, 5 P. M., bids will be received by John A. Hoey, town clerk (20-3) to construct storm sewer system, consisting of 12-in., 15-in., 18-in. and 24-in. concrete pipe sewers; brick manholes and catch-basins. 1911 Act. Certified check 10% payable to mayor of town required with bid. Plans on file in office of clerk.

EL CENTRO, Imperial Co., Cal.—A straw vote will be held in the Imperial Irrigation District Feb. 4 on the proposal to vote \$1,000,000 in bonds to finance drainage extensions and storm water system.

REDWOOD CITY, San Mateo Co., Cal.—County supervisors petitioned to ask bids to construct sewer system for Lomita Park Sanitary District. Robert A. Klassen, engineer, 154 Arch St., Redwood City.

SANTA CRUZ, Santa Cruz Co., Cal.—February 7 is date set by county supervisors to consider proposal of property owners in the Soquel-Capitola sections for a sewer system, preliminary surveys for which have been completed by County Surveyor Lloyd Bowman. The cost is estimated at \$56,000 which include a pumping plant at a point near the water front at Capitola and an outfall system into the bay.

WATER WORKS

LOMPOC, Santa Barbara Co., Cal.—Until February 3, 7:30 P. M., bids will be received by city to furnish f.o.b. Lompoc, the following pipe: (a) 2,800 ft. 8.625 in. O. D. by 8.249 in. I. D. lapwelded black steel pipe,

plain end beveled 45 deg. for welding, asphaltum dipped, weight 16.94 lbs. per foot;

(b) 100 ft. 8-in. O. D. by 7.628 in. I. D. lapwelded black steel pipe, plain end beveled 45 deg. for welding, asphaltum dipped, weight 15.522 lbs. per foot.

(c) 600 ft. 7-in. O. D. by 6.652 I. D. lapwelded black steel pipe, plain end beveled 45 deg. for welding, asphaltum dipped, weight 12.885 lbs. per foot.

Specifications obtainable from city clerk.

SACRAMENTO, Calif.—City council will set date shortly to vote on question of issuing and selling bonds of \$450,000 to finance construction of a new sedimentation basin in connection with municipal filtration plant. Fred J. Klaus is city engineer.

PALO ALTO, Santa Clara Co., Cal. Santa Clara County Water Works District No. 1, just south of Palo Alto city limits, was organized at a recent election and authorized the sale of bonds of \$27,500 to finance construction of a water distributing system to be supplied from Spring Valley water lines, Palo Alto's municipal water system and domestic wells.

BOULDER CITY, Nev.—Lacy Mfg. Co., 1000 N. Main St., Los Angeles submitted low bid, f.o.b. destination, to S. Bureau of Reclamation, Wilda Bldg., 1441 Welton St., Denver, for the fabrication and erection of 2 arched or riveted plate steel tanks for water supply, Boulder City, Nev., Boulder Canyon project. One tank will be 100 ft. in diameter and 34 ft. high, with No. 10 gauge sheet steel roof of 2,000,000 gallons capacity, to be erected in Boulder City. The other tank will be 46 ft. in diameter and 25 ft. high, without roof, of 235,000 gallons capacity, to be erected at the site of the filter plant about 4 miles east of Boulder City. The tanks will be erected on oiled sand foundations constructed in advance by the government. Complete list of bids will be published shortly.

EXETER, Tulare Co., Calif.—City council, T. E. Ahwrey, city clerk, adopts Resolution "A," declaring intention to construct improvements for additional water supply, involving drilling well, purchase of pumping plant with automatic control, motor and switchboard; 200,000-gallon surface steel storage tank, booster pump with automatic controls and water line extensions; estimated cost \$24,000.

CONTRA COSTA COUNTY, Cal.—Three projects aimed to provide adequate water systems at a cost of approximately \$200,000 are planned in Contra Costa County.

At Lafayette, the Lafayette Water Works District contemplates a domestic water system to tie-in with the

East Bay Municipal Utility District. The cost of construction is placed at \$100,000.

At Saranap, a district is to be organized to vote bonds of \$50,000 to finance construction of a domestic water distributing system.

At Walnut Creek, a bond election will be called shortly to vote bonds of \$60,000 to finance construction of a water distributing system. Should the bond issue fail to carry it is probable that funds to finance the project will be raised by direct tax.

HAWTHORNE, Los Angeles Co., Cal.—Pacific States Cast Iron Pipe Co., 417 S. Hill St., Los Angeles, awarded contract by city council to furnish cast iron pipe as follows:

5300 ft. 2-in. pipe at 19c ft.;
2500 ft. 4-in. pipe at 33.5c ft.;

2500 ft. 6-in. pipe at 59c ft.

OAKLAND, Cal.—Art Concrete Wks 24th and Adeline Sts., Oakland, at \$3,380 awarded contract by East Bay Municipal Utility District to furnish concrete meter boxes and tops.

GLENDALE, Los Angeles Co., Cal.—Until 10 A. M., Jan. 29, bids will be received by the city council for delivering f. o. b. cars, equipment as follows:

Item 1. One (1) horizontal centrifugal pump capable of pumping 2000 gallons of water per minute against a total head of 320 feet. Pump to be constructed for direct connection to a four pole 50 cycle electric motor.

Item 2. One (1) 250 H. P. horizontal, 3 phase, 4 pole, 50 cycle, 4000 volt, 40 degree squirrel cage full voltage start induction motor for direct connection to Item 1.

Item 3. One (1) automatic, remote control magnetic switch, with overload and under-voltage release for a 250 H. P., 50 cycle, 4000 volt, 3 phase, full voltage start induction motor, operating coil for 230 volts.

Alternate bids will be received on Item 2, for a 250 H. P. horizontal, 3 phase, 4 pole, 50 cycle, 4000 volt, 40 degree unity power factor synchronous motor with direct connected exciter and exciter field rheostat.

Alternate bids will be received on Item 3, for automatic starting and control equipment for a 250 H. P., 3 phase, 4 pole, 50 cycle, 4000 volt, 40 degree synchronous motor. Equipment to include an A. C. line ammeter, D. C. field ammeter and power factor meter.

Alternate bids will be received on Item 2, for automatic starting and control equipment for a 250 H. P., 3 phase, 4 pole, 50 cycle, 4000 volt, 40 degree synchronous motor, with A. C. line ammeter, D. C. field ammeter power factor, meter and automatic equipment for maintaining any desired

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Certified check, 10% G. E. Chapman, city clerk. P. Diederich, plant superintendent.

OAKLAND, Cal.—Benssaler Valve Co., Sharon Bldg., San Francisco, at \$350 awarded contract by East Bay Municipal Utility District to furnish and deliver assorted valves. Complete list of unit bids published in our issue of January 8.

OAKLAND, Cal.—U. S. Pipe & Foundry Co., Monnock Bldg. San Francisco, at \$47,790 awarded contract by East Bay Municipal Utility District to furnish and deliver c. i. pipe for distributing system. Complete list of unit bids published in our issue of January 7.

PLAYGROUNDS & PARKS

BEVERLY HILLS, Los Angeles Co., Cal.—Until 8 P. M., February 10, bids will be received by the city council for planting a rose garden in the park strip along Santa Monica Blvd., Beverly Hills. Specifications on file at office of park supt.

STREETS AND HIGHWAYS

SAN MATEO, San Mateo Co., Cal.—City council starts proceedings to pave Poplar St. from Delaware to Humboldt St., and along south line of San Mateo High School grounds; estimated cost \$20,000. Details will be published shortly.

LODI, San Joaquin Co., Cal.—Petitions are being circulated seeking formation of road improvement district to complete paving of Cherokee Lane to a width of 76 feet where that thoroughfare forms the city boundary and for a distance of 1 mile. Julius Manthey is county surveyor.

OAKLAND, Cal.—Hutchinson Co., 1450 Harrison St., Oakland, at \$23,065 awarded contract by city council to improve portions of Eighth St., Fallon St., and the extension of Tenth street; cash job. Complete list of unit bids on this project were published in issue of January 16th. Successful bid follows:

- (1) 7,548 cu. yds. fill, \$1.08.
- (2) 1,326 cu yds. excavation, \$4.40.
- (3) 100 cu. yds. material in excavation below subgrade to be removed and replaced with filling material, \$1.50.
- (4) 322 lin. ft. wood curb, \$21.
- (5) 4,779 lin. ft. concrete curb, \$48.
- (6) 4,781 sq. ft. concrete gutter, \$26.
- (7) 9,225 sq. ft. asphaltic concrete pavement (asphaltic concrete surf. course, 2-inch thick, laid upon a Portland cement concrete foundation, 6-in. thick), \$225.
- (8) 127,088 sq. ft. penetration macadam pavement, \$115.
- (9) 2,411 sq. ft. existing pave. to be resurfaced with asph. concrete, \$67
- (10) 21,662 sq. ft. cement sidewalk, \$15.
- (11) 225 lin. ft. 6-in. by 22-in. wood-cen culvert, \$1.60.
- (12) 2 manholes with inlet tops (34-inch opening), \$70.00.

YOSEMITE PARK, Cal.—The House of Representatives has passed the Leavitt bill, which directs the secretary of the Interior to spend an authorized appropriation of \$7,500,000 during each of the fiscal years 1932 and 1933 on building approach roads to national parks. These approaches

are limited to 60 miles, not more than 40 miles of which may be in any one county and must lead across land at least 90 per cent owned by the government. Amounts apportioned are: General Grant, \$595,000; Grand Canyon, \$1,600,000; Lassen Volcanic, \$2,010,000; Mesa Verda, \$30,000; Sequoia, \$595,000; Yellowstone, \$5,408,200; Yosemite \$4,050,000. These amounts cover the two-year program for these national parks.

- CLARK COUNTY, Nevada—**As previously reported, bids will be received February 4, 2 P. M., by State Highway Commission, S. C. Durkee, chief engineer, Heroe's Memorial Bldg., Carson City, for 19.68 miles of grading; structures and gravel surfacing in Clark County between West Slope of Mormon Mesa to the Lower Virginia River Bridge. Project involves:
- (1) 77,000 cu. yds. excavation, unclass;
 - (2) 96,564 yds. sta. overhaul;
 - (3) 12.85 miles prepare subgrade and shoulders;
 - (4) 6.73 miles preparing shoulders;
 - (5) 48,700 cu. yds. crushed rock or crushed gravel in place;
 - (6) 1000 cu. yds. crushed rock or crushed gravel in stockpile;
 - (7) 13 cu. yds. class A concrete;
 - (8) 17 cu. yds. class B concrete;
 - (9) 46 lin. ft. removing 18-in. corr. metal pipe;
 - (10) 24 lin. ft. removing 24-in. corr. metal pipe;
 - (11) 244 lin. ft. install 15-in. corr. metal pipe;
 - (12) 552 lin. ft. install 18-in. corr. metal pipe;
 - (13) 522 lin. ft. install 24-in. corr. metal pipe;
 - (14) 46 lin. ft. install 30-in. corr. metal pipe;
 - (15) 34 lin. ft. install 36-in. corr. metal pipe;
 - (16) 1 corr. metal pipe culvert extensions;
 - (17) 74 demolishing headwalls;
 - (18) 85 monuments;
 - (19) lump sum, furnish water equipment;
 - (20) 728 M. gals. applying water;
 - (21) 1024 lin. ft. remove wooden guard rail;
 - (22) 1128 lin. ft. standard timber guard rail in place;
 - (23) 2 furnish and install posts for F. A. markers;
 - (24) 19.68 miles finishing roadway.
- State will furnish corrugated metal pipe culverts and band couplings, f. o. b. cars, Arrowhead Siding, Clark County.

SAN FRANCISCO.—C. L. Harney, Call Bldg., at \$54,063 submitted low bid to Board of Public Works to improve Montgomery St. bet. Union and Greenwich Sts., etc. A complete list of the unit bids received will be pub-

lished in tomorrow's issue. Complete lump sum bid listing follows:

C. L. Harney.....	\$54,063
McDonald & Kahn.....	54,283
M. J. Lynch.....	54,785
C. B. Eaton.....	54,889
E. J. Tracy.....	59,489
Fay Improvement Co.....	61,973

IMPERIAL COUNTY, Calif.—Griffith Co., Railway Exchange Bldg., Los Angeles, at \$142,323 submitted low bid to State Highway Commission Jan. 21 to grade and pave with asphalt concrete 6.2 miles between Trifolium Canal and Kane Springs, involving:

- (1) 32,000 cu. yds. rdwy. excav. with-out class;
 - (2) 43,000 sta. yds. overhaul;
 - (3) 1,500 cu. yds. struc. excav.;
 - (4) 14,500 sq. yds. subgrade for pavement;
 - (5) 54,400 sq. yds. asph. plant binder;
 - (6) 28,800 tons asphalt concrete;
 - (7) 1,292 lin. ft. 24-in. corr. metal pipe;
 - (8) 132 lin. ft. 36-in. corr. metal pipe;
 - (9) 900 lin. ft. furnishing treated piles;
 - (10) 36 each, driving piles;
 - (11) 16 M. ft. b.m. redwood timber, dense select all-heart struc. grade;
 - (12) 10 M. ft. b.m. redwood timber, select all-heart struc. grade;
 - (13) 72 cu. yds. remove and dispose of Portland cement concrete in existing pave. and struc.
 - (14) 322 sta. finish roadway;
 - (15) 120 each, monuments, complete in place.
- The state will furnish corrugated metal pipe. Complete list of bids follows:
- | | |
|---|-----------|
| Griffith Co., Los Angeles..... | \$142,323 |
| Steele Finley, Santa Ana..... | 143,845 |
| R. E. Hazard Const. Co., San Diego..... | 151,628 |
| Basch Bros., Torrance..... | 158,255 |
| Clark & Henery, San Francisco..... | 159,552 |
| Daly Corp., San Diego..... | 181,926 |

STOCKTON, San Joaquin Co., Cal.—As previously reported, bids will be received January 26, 11 A. M., by E. Graham, county clerk, to improve Harney Lane between Lower Sacramento Road and Cherokee Lane. Project involves:

- (a) 4,000 cu. yds. grading;
 - (b) 6,400 tons base course;
 - (c) 590 tons crushed rock;
 - (d) 260 tons rock chips;
 - (e) 212 tons pea gravel;
 - (f) 140 bbls. fuel oil;
 - (g) 50 tons asphaltic oil.
- Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from Julius Manthey, county surveyor.

OROVILLE, Butte Co., Cal.—County Surveyor J. A. Bumgarner making surveys to improve Buena Vista Ave., connecting Quincy Road and the Feather River Highway. Crushed rock surfacing will probably be specified.

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SAN MATEO, San Mateo Co., Cal.—City council declares intention (31-1) to improve E. St. bet. with an Baldwin Aves.; 2nd Ave. from San Mateo Drive to Main St.; 3rd Ave. from Ellsworth to Railroad Aves., involving:

- (1) 24,510 sq. ft. grading;
- (2) 16,000 sq. ft. sidewalk;
- (3) 1,122 lin. ft. 12-in. curb, 24-in. gutter;
- (4) 4,538 lin. ft. 16-in. curb, 4-ft. 3-in. gutter;
- (5) 348 lin. ft. 16-in. curb, 4-ft. 3-in. gutter;
- (6) 2,334 lin. ft. 16-in. curb 5-ft. do;
- (7) 26 lin. ft. 16-in. reinf. curb 4-ft. 3-in. reinf. gutter;
- (8) 20 lin. ft. 16-in. reinf. curb, 4-ft. 3-in. reinf. gutter;
- (9) 189 lin. ft. 16-in. reinf. curb, 5-ft. reinf. gutter;
- (10) 2 cu. yds. reinf. columns and beams;
- (11) 21,660 sq. ft. 6-in. asphalt. conc. pavement;
- (12) 1,700 tons asphalt concrete;
- (13) 613 lin. ft. 4-in. vit. pipe lateral sewers;
- (14) 940 lin. ft. 21-in. concrete pipe storm sewers;
- (15) 272 lin. ft. 18-in. do;
- (16) 594 lin. ft. 15-in. do;
- (17) 163 lin. ft. 12-in. do;
- (18) 4 manholes;
- (19) 26 catchbasins;
- (20) 89 electrolitters;
- (21) 11,200 lin. ft. conduit;
- (22) 12,700 lin. ft. cable.

1911 Act. Bond Act 1915. Hearing Feb. 2. E. W. Foster, city clerk.

STOCKTON, San Joaquin Co., Cal.—As previously reported, bids will be received January 26, 11 A. M., by E. Graham, county clerk, to improve Miller Road from Acampo Road to Felter Road. Project involves:

- (a) 1,500 cu. yds. grading;
 - (b) 3500 tons base course;
 - (c) 210 tons crushed rock;
 - (d) 92 tons rock chips;
 - (e) 75 tons pea gravel;
 - (f) 50 bbls. fuel oil;
 - (g) 18 tons asphaltic oil;
 - (h) 1 pipe to be installed.
- 0.83 mile in length.
Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from Julius Manthey, county surveyor.

SANTA ROSA, Sonoma Co., Cal.—Until February 10, 12 noon, bids will be received by Geo. F. Sanborn, county clerk, for concrete pavement on the Petaluma to Point Reyes Highway, Section B in the Second Supervisorial District, involving:

- (1) 9500 cu. yds. excavation;
- (2) 2465 cu. yds. concrete in pavement;
- (3) 70 cu. yds. concrete in structure and headwalls;
- (4) 4000 lbs. reinforcing steel; metal pipe;
- (5) 400 lin. ft. 12-in. corrugated;
- (6) 44 lin. ft. 18-in. do do do;
- (7) 30 lin. ft. 24-in. do do do;
- (8) 32 lin. ft. 36-in. do do do;
- (9) 16 in. ft. 36-in. do do do.

Plans obtainable from E. A. Peugh, county surveyor.

See call for bids under official proposal section in this issue.

PLUMAS COUNTY, Cal.—Charles Harlowe Jr., 378 Belmont St., Oakland, at \$64,513.60 (using treated timber) awarded contract by District Engineer, U. S. Bureau of Public Roads, San Francisco, to grade Section F, Route 23, Quincy-Beckwith National Forest Highway in Plumas National Forest, 7.99 miles in length, involving: 29 acres clearing; 73,180 cu. yds. unclass. excav.; 660 cu. yds. unclass. excav. for struc.; 97,800 sta. yds. overhaul; 7,942 miles finishing earth-graded road; 89 M.B.M. untreated tim-

ber in place; 85 M.B.M. treated timber in place; 11 cu. yds. class A concrete; 89 cu. yds. class B concrete; 1250 lbs. reinforcing steel; 18 lin. ft. 12-in. corr. galv. metal pipe in place; 1618 lin. ft. 18-in. 366 lin. ft. 24-in., 90 lin. ft. 20-in. and 248 lin. ft. 36-in. corr. galv. metal pipe; 1600 lin. ft. untreated timber piling in place; 500 cu. yds. hand-laid riprap in place; (extra work) maintenance of sections accepted for traffic; 655 sq. yds. bitum. wearing surface in place; 102 each right-of-way monuments in place.

OAKLAND, Cal.—Until January 29, 12 noon, bids will be received by F. C. Merritt, city clerk, to improve portions of E-8th St., E-10th St., 3rd Ave., 5th Ave., 6th Ave. and 7th Ave., involving:

- (1) 351,330 sq. ft. grading;
- (2) 7,947 lin. ft. conc. with steel curb guard;
- (3) 293,920 sq. ft. conc. pavement;
- (4) 22,663 sq. ft. conc. sidewalk;
- (5) 2,576 sq. ft. concrete driveways
- (6) 261 lin. ft. of 8x29-in. corr. iron and conc. culvert;
- (7) 4 cast iron handholes;
- (8) 66 lin. ft. 10-inch vit. pipe conduit;
- (9) 28 lin. ft. 12-inch do;
- (10) 1 catchbasin (34-inch opening);
- (11) 1 catchbasin (21-inch opening);
- (12) 280 lin. ft. 8-in. vit. pipe sewer
- (13) 1 lamphole.

City will pay 2% of cost from the Treasury. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

SANTA ANA, Orange Co., Cal.—Until February 3, 11 A. M., bids will be received by J. M. Backs, county clerk, to widen portions of Westminster Ave. in 2nd Rd. Dist., involving:

- (a) 8,400 cu. yds. excavation unclassified for roadway, shoulders and ditches;
- (b) 220,460 sq. ft. gravel base;
- (c) 78,725 sq. ft. gravel shoulders;
- (d) 4,666 cu. yds. cement concrete pavement.

Specifications obtainable from Nat H. Neff, county road commissioner.

CULVER CITY, Los Angeles Co., Cal.—Until February 16, 8 P. M., bids will be received by Paul Jarrett, city clerk, to improve Sepulveda Blvd. bet. Venice Blvd. and city limits, A & 1 No. 8, involving in the main 1,619,517 sq. ft. grading; 471,595 sq. ft. 6-in. asphaltic conc. base, 2-in. asphalt surface paving; cement pipe; catchbasins, curbs, walks, gutters, etc. Specifications obtainable from Geo. E. Lee, City Engineer.

FRESNO, Fresno Co., Calif.—Until January 29, 10:30 A. M., bids will be received by H. S. Foster, city clerk, (108-D) to improve Terrace Ave. bet. Palm and Wilson Aves., involving grading; cement concrete curbs, gutters and walks; corrugated metal culverts with manholes; 2½-in. asphalt concrete base with 1½-in. asphalt concrete surface and liquid asphalt and rock screening surface coat. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk. C. C. Valkenburg, city engineer.

OAKLAND, Cal.—Heafey-Moore Co., 344 High St., Oakland, at \$22,400 awarded contract by East Bay Municipal Utility District to furnish and deliver hot asphalt for year 1931.

SACRAMENTO, Calif.—W. H. Larson, 2650 Curtis Way, Sacramento, at \$17,920 awarded contract by East Bay Municipal Utility District for making asphalt street repairs to pavements.

SANTA BARBARA, Cal.—Until 1:30 P. M., Jan. 29, bids will be received by the City Council to improve Bath St., between Quinto St. and Alamar Ave., approximately one and one-half blocks, involving asphaltic concrete pavement, curb, gutter, combined curb and gutter, walk, concrete landing walk; 1911 Act. Geo. D. Geib, City Clerk. E. B. Brown, city engineer.

SAN DIEGO COUNTY, Calif.—Triangle Rock and Gravel Co., San Bernardino, at \$32,715 awarded contract by U. S. Bureau of Public Roads, San Francisco, for grading Section B and placing selected material on Sections A and B of Route 75, Laguna National Forest Highway, in Cleveland National Forest, 10.86 miles in length, involving: 21 acres clearing; 28,750 cu. yds. excavation, unclass.; 200 cu. yds. excavation, for structures; 5,000 cu. yds. overhaul; 6.5 miles preparing roadbed; 1,096 lin. ft. corr. metal pipe in place; 19,000 cu. yds. selected material in place.

SAN BERNARDINO COUNTY, Cal.—As previously reported, bids will be received February 1 by State Highway Commission to grade and surface with oil-treated crushed gravel or stone, 29.2 miles between 1.5 miles east of Essex and 1 mi. southeast of Kinefelter. Project involves:

- (1) 227,600 cu. yds. roadway excavation without class (Location A);
 - (2) 132,000 cu. yds. roadway excavation without class (Location B);
 - (3) 490,000 sta. yds. overhaul;
 - (4) 106,000 cu. yds. imported borrow;
 - (5) 87,000 cu. yds. ditch and channel excavation;
 - (6) 42,800 cu. yds. pit run gravel sub-base;
 - (7) 9170 cu. yds. structural excavation;
 - (8) 800 tons oil-treated crushed gravel or stone surfacing;
 - (9) 1900 cu. yds. crushed gravel or stone screenings (seal coat);
 - (10) 1400 bbls. fuel oil (seal coat);
 - (11) 346 lin. ft. 18-in. corr. metal pipe;
 - (12) 2032 lin. ft. 24-in. corr. metal pipe;
 - (13) 2858 lin. ft. 36-in. corr. metal pipe;
 - (14) 648 lin. ft. 48-in. corr. metal pipe;
 - (15) 8700 cu. yds. water applied to sub-base;
 - (16) 29,420 lin. ft. furnishing treated piles;
 - (17) 1299 each, driving piles;
 - (18) 588 M. ft. B. M. redwood timber, dense select all-heart structural grade;
 - (19) 357 M. ft. B. M. redwood timber, select all-heart structural grade;
 - (20) 1545 sta. finishing roadway;
 - (21) 450 each, monuments, complete, in place.
- The state will furnish corrugated metal pipe.

FRESNO STATE—State Highway Department, S. C. Durkee, Chief engineer, Heroes' Memorial Bldg., Canyon City, has adopted the revised budget involving the expenditure of \$2,989,447 for improvements during the current year of which approximately \$1,900,000 will come from general funds as the construction and oiling work is on the Federal Aid system only. A summary of the improvements segregated by counties follows:

CHURCHILL COUNTY—New construction—none; reconstruction and oiling—5 miles south of Fallon to Salt Wells, 10.15 miles, \$86,275; general maintenance, 139.66 miles, \$36,192;

specific maintenance, \$4700. Total—\$127,617.

CLARK COUNTY—New construction—Las Vegas south toward Boulder Canyon Dam site, 19 miles, \$150,000; reconstruction and oiling—West slope Norman Mesa to Lower Virgin river bridge, 19.89 miles, \$169,065; oiling—Jean to state line, 12.62 miles, \$31,550; construction of new Upper Virgin river bridge, \$125,000; general maintenance, 179.40 miles, \$39,827; specific maintenance, \$5200. Total—\$529,842.

DOUGLAS COUNTY—New construction—None; reconstruction and oiling—5 miles east of Holbrook to 2 miles north of Carter's 15.02 miles, \$127,670; general maintenance—53.19 miles, \$13,450; specific maintenance, \$1750. Total—\$142,870.

ELKO COUNTY—New construction—Thousands Springs creek to Contact, 20.00 miles, \$169,000; new construction and reconstruction—Deeth to Wells, 17.81 miles, \$126,150; reconstruction and oiling—4 miles east of Silver Zone to Utah line, 15.56 miles, \$143,310; south county line to Wendover, 63.52 miles, \$165,912; oiling—Elko to Deeth, 31.44 miles, \$78,600; General maintenance—214.61 miles, \$56,442; specific maintenance, \$7350. Total—\$737,774.

ESMERALDA COUNTY—New construction—None; reconstruction and oiling—none; general maintenance—97.10 miles, \$22,258.65; specific maintenance, \$2900. Total—\$25,158.65.

EUREKA COUNTY—New construction—None; reconstruction and oiling—West county line to 2 miles east of Dunphy, 6.96 miles, \$59,100; general maintenance—72.57 miles, \$19,838.50; specific maintenance, \$2950. Total, \$81,698.50.

HUMBOLDT COUNTY—New construction—None; reconstruction and oiling—Winnemucca to 6 1/2 miles west of Stonehouse, 27.33 miles, \$232,305; general maintenance—102.19 miles, \$27,595; specific maintenance, \$3600. Total—\$263,500.

LANDER COUNTY—New construction—None; reconstruction and oiling—Battle Mountain to East county line, 19.83 miles, \$167,280; general maintenance—124.44 miles, \$36,526.50; specific maintenance, \$4750. Total—\$208,556.50.

LINGCOLN COUNTY—New Construction—None; reconstruction and oiling—None; general maintenance—198.97 miles, \$18,922.50; specific maintenance \$2350. Total—\$20,372.50.

LYON COUNTY—New construction—None; reconstruction and oiling—None; general maintenance—104.60 miles, \$28,856; specific maintenance, \$3750. Total—\$32,606.

MINERAL COUNTY—New construction—Schurz to Dutch creek, 22.22 miles, \$56,700; reconstruction and oiling, none; general maintenance, 106.44 miles, \$27,810.75; specific maintenance, \$3625. Total—\$298,195.75.

NYE COUNTY—New construction, none; reconstruction and oiling, none; general maintenance, 277.71 miles, \$59,131.30; specific maintenance, \$7700. Total—\$66,831.30.

ORMSBY COUNTY—New construction, none; reconstruction and oiling, none; general maintenance, 20.27 miles, \$6142.50; specific maintenance, \$800. Total—\$6942.50.

PERSHING COUNTY—New construction—Overhead grade separation structure and approaches at Woolsey, 0.29 miles, \$50,000; reconstruction and oiling, none; general maintenance, 73.76 miles, \$14,752; specific maintenance, \$1900. Total \$66,652.

STOREY COUNTY—New construction—None; reconstruction and oiling, none; general maintenance, 6.54 miles, \$1848; specific maintenance, \$321.55. Total—\$2169.55.

WASHOE COUNTY—New construction, none; reconstruction—Washoe Summit to Huffaker's, 9.00 miles, \$270,000; general maintenance, 84.79 miles, \$30,788; specific maintenance, \$4600. Total \$304,788.

WHITE PINE COUNTY—New construction, none; oiling, Robinson Summit to Keystone, 12.16 miles, \$30,400; general maintenance, 198.92 miles, \$58,212.75; specific maintenance, \$5900. Total—\$73,612.75.

SAN BRUNO, San Mateo Co., Cal.—City Engineer Robert Kissen preparing plans for sewer in both sides of El Camino Real bet. Taylor Ave. and San Felipe Ave. to replace sewer running in center of blocks facing the highway.

Progress in road construction throughout the world is indicated by the present mileage of 7,805,629, according to a survey made by Frank B. Curran and B. P. Root, of the Department of Commerce. The United States, not including Alaska and the outlying possessions, ranks first among the countries of the world with a total of 3,016,281 miles, or 38.7 per cent of the world total. Considering mileage in proportion to area, without regard to road surfaces, Japan leads all other countries of the world with 3 miles of road per square mile of area; the United States is in thirteenth position, with 1 mile for every square mile of area. The survey shows an increase of 1,223,623 miles throughout the world over last year's figures, or an increase of 18.6 per cent. The United States is first on the list in the matter of hard surface roads, having 167,155 miles.

Legislation looking to the removal of the requirement by the government of competitive bidding for surveys of building sites and for engineering services has been delayed awaiting the securing of a special rule, it is reported by Paul Wootton, Washington

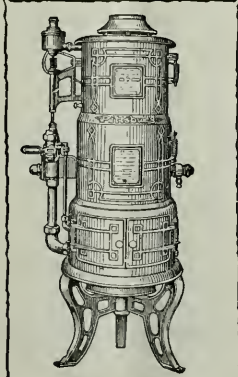
Record. The bill also provides for correspondence for Engineering News—the obtaining of outside engineering, technical, architectural and other professional services so as to make it possible to speed up the federal building program. The measure also authorizes the secretary of the treasury to restrict bidders on construction to such persons, firms or corporations as possess the qualifications deemed necessary to carry forward the work in a manner that will be in the public interest.

As the present law has been interpreted by the comptroller general, the government must secure bids for engineering services. This is opposed by the contracting agencies of the government. Their representatives convinced members of the committee on public buildings and grounds that it is in the public interest to leave such services to the judgment of the department head having jurisdiction. At the same time, these agencies are anxious to have more authority under the provision for letting contracts. At present difficulties and delays always result when the contract is not let to the low bidder.

County and federal co-operation in the construction of highways with the proceeds of the gasoline tax funds, as well as the inter-county co-operation along those lines would be made possible under a bill introduced in the senate by Senator Charles H. Denel of Ohio.

The purpose of the bill is to provide for the continuation of county road improvements which now frequently stop at the border line of a county and a bad stretch of road is the weak link in an otherwise attractive highway.

The various counties and the federal department of public roads would be authorized to co-operate in improving such weak links in order to provide uniformly good highways connecting the counties.



A "Pittsburg" Automatic Water Heater installed in the Home indicates high quality throughout.

Recommended and specified by all the leading architects, plumbers and builders.

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Storage Systems and "Lyon" Tank Water Heaters.

309 13th Street, Oakland 478 Sutter St., San Francisco

SEND FOR CATALOGS

Contracts Awarded Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
48	Eisenberg	American	11600
49	Pritchard	DeVelbiss	1090
50	Phelan	Scully	1500
51	Armstrong	Owner	100
52	Rollins	Owner	1000
53	Berg	Owner	4000
54	McCay	Mullen	1800
55	Dall	Owner	3500
56	Meyer	Owner	6000
57	Stoneson	Owner	3500
58	Stoneson	Owner	12000
59	Gordon	Owner	4000
54	McInnas	Lindsay	3000
55	Edison	Home	3000
56	Amatore	Owner	4000
57	Bell	Cahill	8000
58	Dräger	Owner	2500
59	Mandershuhd	Owner	1500
60	Ohlson	Owner	8000
61	Papas	Psychiogo	1650
62	Price	Owner	9500
63	Pringle	Williams	2559
64	Samuelson	Owner	3200
65	Spreckels	Phoenix	1000
66	Stavropoulos	Psychiogo	1150
67	Caswell	Owner	2000
68	Cook	Elkington	4500
69	Macdonald	Owner	7500
70	Keeley	Owner	4000
71	Grahn	Owner	17500
72	Ballaurl	Owner	1800
73	Sherman	Mabej	2500

ALTERATIONS

(48) 925 MARKET ST.; alterations to store.
Owner—E. Eisenberg, 2526 Mission St.
Plans by L. Roselyn, 2800 20th St.
Contractor—American Woodworking Co., 2800 20th St. \$11,600

REPAIRS

(49) 1286 SANCHEZ ST.; repair fire damage.
Owner—R. L. Pritchard Estate, 117 Montgomery St.
Architect—Not Given.
Contractor—C. D. De Velbiss, 369 Pine Street. \$1000

ALTERATIONS

(50) 650 VALENCIA ST.; alterations for garage.
Owner—M. L. Phelan, 2150 Washington Street.
Engineer—L. H. Nishklan, Underwood Building.
Contractor—J. E. Scully, 401 Phelan Building. \$1500

ALTERATIONS

(51) 594 THIRD ST.; alterations and additions to office building.
Owner—Dr. A. C. Armstrong.
Architect—Not Given. \$1000

ALTERATIONS

(52) 1349 CLAYTON ST.; alterations to dwelling.
Owner—E. Rollins, 44 4th St.
Architect—Not Given. \$1000

DWELLING

(53) W 30th AVE. 100 N Taraval St.; one-story and basement frame dwelling.
Owner and Builder—E. J. N. Berg, 24 Stillings Ave.
Architect—Not Given. \$4000

ALTERATIONS

(64) 211 CHURCH ST.; alterations to store.
Owners—C. C. and A. C. McCay, 211 Church St.

Architect—Not Given.
Contractor—Mullen Manufacturing Co., 60 Rausch St. \$1800

DWELLING

(55) N MUNICH 313 W Cordova; 1-story and basement frame dwelling.
Owner and Builder—J. Dall, 912 Geneva Avenue.
Plans by D. E. Jaekle, Call Bldg. \$3500

DWELLING

(56) N MIRALOMA 1350 N and E of Yerba Buena; one-story and basement frame dwelling.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Burks, 727 Portola Dr. \$6000

DWELLING

(57) NE DELANO AND NAVAJO; one-story and basement frame dwelling.
Owner and Builders—Stoneson Bros. & Thorinson, 279 Yerba Buena.
Architect—Not Given. \$3500

DWELLINGS

(58) S SENECA 390 E Delano; three one-story and basement frame dwellings.
Owner and Builders—Stoneson Bros. & Thorinson, 279 Yerba Buena.
Architect—Not Given. each \$4000

DWELLING

(53) SW ALEMANY 25 N Santa Rosa St. One-story and basement frame dwelling.
Owner—H. Gordon, 312 Hanover St., San Francisco.
Architect—Not Given. \$4000

DWELLING

(54) W BACHE 152 S Crescent. One-story and basement frame dwelling.
Owner—J. McInnes, 12-A Bache St., San Francisco.
Architect—Not Given.
Contractor—B. C. Lindsay, 183 Oxford St., San Francisco. \$3000

ALTERATIONS

(55) N 895 MARKET. Alter store.
Owner—Edison Bros. Shoe Co., St. Louis, Mo.
Architect—I. H. Kanver, St. Louis, Mo.
Contractor—Home Mfg. Co., Inc., 552 Brannan St., San Francisco. \$3000

ALTERATIONS

(56) W VERMONT 225 N 24th St.; one-story and basement frame dwelling.

Owner & Builder—F. Amatore, 1392A Hampshire St.
Architect—None. \$4000

ALTERATIONS

(57) N TURK ST. 79 E Larkin; alterations to add one story to present two stores for loft.
Owner—Bell Bros., Mills Bldg.
Architect—W. D. Peugh, 333 Sansome.
Contractor—Cahill Bros., 206 Sansome Street. \$8000

DWELLING

(58) N ULLOT 57 W 28th Ave.; one-story and basement frame dwelling.
Owner—O. Dräger, 2341 17th Ave.
Plans by B. K. Dobkowitz, 425 Monterey Blvd. \$3500

ALTERATIONS

(59) 2323 BUSH ST.; alterations to raise dwelling for garage.
Owner—M. Mandershud, 944 Hamp.
Architect—Not Given. \$1500

DWELLING

(60) E LOPEZ 75 N Castenada; two-story and basement frame dwelling.
Owner and Builder—Ohlson & Almqvist, 1626 24th Ave.
Plans by Owners. \$8000

ALTERATIONS

(61) 60 SIXTH ST.; alterations for restaurant.
Owner—Pete Papas, 60 6th St.
Architect—Not Given.
Contractor—N. D. Psychiogos, 471 Jessie Street. \$1650

FACTORY

(62) E TENTH AVE. 125 N Folsom; factory class C brick factory.
Owner—G. W. Price Pump & Engine Co., 1350 Folsom St.
Architect—E. A. Neumarkel, 340 Kearny Street. \$9500

ALTERATIONS

(63) 483 PINE ST.; alterations for market.
Owner—C. Pringle, 1007 Kohl Bldg.
Plans by Contractor.
Contractor—C. Williams Co., 520 Jessie Street. \$2550

DWELLING

(64) SE TEDDY and Delta; one-story and basement frame dwelling.
Owner—J. M. Samuelson, 901 Geneva.
Plans by W. R. Welshelmer, 924 Prague. \$3200

ALTERATIONS

(65) NE CALIFORNIA and Davis; alterations to sidewalk lights.
Owner—J. D. and A. E. Spreckels Inv. Co., 2 Pine St.
Architect—Not Given.
Contractor—Phoenix Simpton Co., 520 Sixth St. \$1000

ALTERATIONS

(66) 705 GEARY ST.; alterations for restaurant.
Owner—G. Stavropoulos, 705 Geary St.
Architect—Not Given.
Contractor—N. D. Psychiogos, 471 Jessie St. \$1150

ALTERATIONS

(67) 1921 SACRAMENTO ST.; alterations and additions to dwelling; underpin foundation.
Owner—G. W. Caswell, 1921 Sacramento St.
Architect—E. E. Young, 2002 California Street. \$2000

CAPITAL CITY TILE COMPANY

J. C. PALEN
Manager

914 Seventh Street
Sacramento - - - California

DWELLING

(68) N HAY 90 E Baker St.; one-story and basement frame dwelling. Owners—Mr. and Mrs. R. Cook, care builder. Architect—C. F. Strothoff, 2274 15th Street. Contractor—G. J. Elkington & Sons, 330 Vicente St. \$1500

FLATS

(69) S JUDAH ST. 125 W 14th Ave.; two-story and basement frame (2) flats. Owner and Builder—D. E. Macdonald, 1305 Hopkins St., Berkeley. Plans by Owner. \$7600

DWELLING

(70) E DANTON 100 N Cayuga; one-story and basement frame dwelling. Owner—J. Keeley, 4668 18th St. Plans by Owner. \$4000

DWELLINGS

(71) SW PLANKEN and Toccoloma; five 1-story and basement frame dwellings. Owner and Builder—W. H. Grahn, 2965 Mission St. Architect—Not Given. each \$3500

GARAGE

(72) 11-11 1/2 BRUSH PLACE; 1-story frame garage. Owner—P. Ballauri, 1171 Folsom St. Plans by Owner. \$1800

ALTERATIONS

(73) SW GREEN and Baker Streets; alterations to residence. Owner—Mrs. H. M. Sherman, 2 8 0 1 Green St. Architect—W. W. Wurster, 260 California St. Contractor—A. Mabe, 230 5th St. \$2500

Filed Jan. 21, '31. Dated Jan. 19, '31. On completion 75% Usual 35 days 25% TOTAL COST not to exceed \$1500 Contractor to receive 10% of total cost Plans and Spec. filed.

SERVICE STATION

(119) NE MASONIC AVE. and Turk St.; all work on gasoline and oil service station. Owner—Associated Oil Company. Architect—Not Given. Contractor—Reavey & Spivock, Shell Oil Bldg.

Filed Jan. 21, '31. Dated Jan. 16, '31. 10 days after completion 75% Usual 35 days 25% Balance TOTAL COST \$1675 Bond, \$4500. Sureties, United States Guarantee Co. Limit, 30 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded Accepted
Jan 16, 1931—SW COR SUTTER and Jones Sts. The Regents of the University of California to D L Plenfield. January 7, 1931
Jan 16, 1931—E 23rd AVE 125 S V. Oscar Swanson to whom it may concern. Jan 15, 1931
Jan 16, 1931—W 25th AVE 100 N Santiago St N 25 x W 120. Martin Smith to whom it may concern. January 16, 1931
Jan 16, 1931—W 44th AVE 173 and 200 N Judah St. P P Johnson to whom it may concern. Jan 16, 1931
Dec 15, 1931—S TLRK 137-6 West Franklin 57-6x120. D J Clancy to whom it may concern. Jan 15, 1931
Jan 5, 1931—145-155-175 PREMONT St. Crocker First Federal Trust Co to J A Tassi. Jan 15, 1931
Jan 15, 1931—ALL PTDN LOT 1 BLK 3278 map M. Davidson Manor as follows: NW Manor Drive dist 1/4 NE from SW line said lot 1 NE 34-616 N and NW 27-864 NW 51-610 SW 34-413 SE 69-598. Gordon Morris to whom it may concern. January 15, 1931
Jan 15, 1931—E 17th AVE 175 Ulloa St N 50 x E 120. Meyer Bros to whom it may concern. Jan 13, 1931
Jan 14, 1931—E NINTH AVE 222-4. N Clement S 68 x E 120. 1/4-3/4 to A L Thulin. January 6, 1931
Jan 14, 1931—BLOCK bounded by 18th, 19th, Folsom and Shotwell Sts. P G & E Co to F W Minkel Jr and W W Lucas. R V and I H Larson, A J Ruhlman & Co, The Window Muffler Co, C L Bronson and O A Franklin, R A Fanto, Lyon Metal Prod Co, Bldg Directory Company. January 9, 1931
Jan 14, 1931—S SACRAMENTO ST 70 W Drumm St W 45-4 x S 91-8. A Stranton to J S Mallock. January 10, 1931
Jan 19, 1931—S MARGIE AVE 127-10. F. Foster 25x100. Fred Isaacson to whom it may concern. January 16, 1931
Jan 16, 1931—LOT 1597 Gift Map No 325x70, known as 200 Rutledge St. Dr T Weissinger and M Weissinger to whom it may concern. January 17, 1931
Jan 19, 1931—E 22nd AVE 225 S Moraga S 25 x E 120. R P Hobbs to whom it may concern. January 19, 1931
Jan 19, 1931—W 33rd AVE 150 S Judah St S 50 x W 120. R F Gall to whom it may concern. January 19, 1931

Jan 17, 1931—N MORAGA 32-6 W 47th Ave W 31-3 N 100 E 63-9 S 25 W 32-6 S 75. L and H Haynes to J Callaghan to whom it may concern. January 15, 1931
Jan 17, 1931—W 21st AVE 250 S Moraga St 25x120 G and B Leask to whom it may concern. January 17, 1931
Jan 16, 1931—W POTRERO AVE 236 N 15th St S 65x200. L Johnson Co to Z Johnson. January 16, 1931
Jan 20, 1931—W SANVAZ ST 125 S 2nd S 25 x W 100 FN 123. Geo Shuteroff to whom it may concern. January 16, 1931
Jan 20, 1931—LOT 14 BLK 35, R R Ave Hd Assn. to F Berdick. Jan 16, 1931
Jan 20, 1931—PTN LOTS 15 and 16 BLK 5835 St Marys Park desc'd: Comg at pt on NW line lot 15 which is dist 4 NE from inter NW line with SW line said lot 15 S 38 deg 65 min W 25 S 51 deg 52 min E 113-627 NE 25-133 m or l N 51 deg W 111-260 to beg. Andrew R and Helen M Johnson to whom it may concern. Jan 4, 1931
Jan 20, 1931—E 22nd AVE 125 North Geary 25x120. E J Cox to whom it may concern. January 17, 1931
Jan 20, 1931—W 17th AVE 175 N Ulloa 25x120. Carl and Fred Gellert to whom it may concern. January 20, 1931

LIENS FILED

San Francisco County

Jan 15, 1931—SE WOOLSEY 90 SW Somerset SW 60 x SE 100. Christenson Lumber Co vs S Makaren \$50.28
Jan 15, 1931—SW WILDER AVE 335-779 SE Diamond SE 25 x SW 100. R Negeheron vs J J and J Hurley \$138.50
Jan 14, 1931—N WASHINGTON 106-236 N Lyon 40-116 x E 120. Oliver C Smith vs Clyde A Pearce, J A Lund. \$230
Jan 14, 1931—SE WOOLSEY 90 SW Somerset SW 20 x SE 100. Pacific Mill & Cabinet Co vs S Makaren \$325.60
Jan 14, 1931—W 25th AVE 225 S Clement St W 117-8 NW 25 E 120-12. E D Swift vs L and J R Kenney \$328.52
Jan 29, 1931—SW WILDER AVE 335-779 SE Diamond SE 25 x SW 100 Blk 4, Fairmont Ext Hd. R G Negeheron & Son vs J J and Josephine Hawley \$198.50

RELEASE OF LIENS

San Francisco County

Recorded Amount
Jan 17, 1931—S BAY ST 70 E Jones St E 50 x S 99. Ralph McLeran & Co vs Commercial Centre Realty Co, R, L and G Cozzi \$1968.50
Jan 17, 1931—LOT 11 ELK AVE 140-140. Clark Co. Spring Valley Lumber Yard, 998-60; Bode Gravel Co, \$31.95, vs E W Stone, A R Inglis, G J, Jane Doe and A E Sipes
Jan 17, 1931—SW PARADISE AVE 156-61 S Elk St SE 25-32 E 82 1/2 14' W 105-25 N 70' 35' 56" W 86-22 N 19' 24' 04" E 110-116; SW Paradise Ave 189-94 SE Elk St SE 31-38 S 41' 27' 04" W 100-61 N 61' 11' 56" W 14-67 N 32' 17' 14" E 105-25. Acme Lumber Co, \$658.39; Holmes Planing Mill Co, \$127.70 vs G L Allen
Jan 16, 1931—E 48th AVE 150 South Santiago S 50 x E 120. James E Lennon Lime & Cement Co to Jean Tignard \$259.44
Jan 14, 1931—SE MISSION 100 NE Russia Ave NE 100 SE 108-6 Blk 4 Excel Hd Assn. Western Asbestos Mfg. Co to John H. Ambrose E and Viola B Frank, Harold Grubbs

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No. Owner	Contractor	Amt.
16 Caro	Cox	12600
17 Shreve	Spivock	6250
18 Weber	Cobby	.....
19 Associated	Reavey	4675

BUILDING

(16) E 24th AVE. 275 N Irving St. N 25 x E 120; all work on 2-story and basement frame building. Owners—J. and C. Caro, 31 Rausch. Architect—Not Given. Contractor—L. H. Cox. Filed Jan. 15, '31. Dated Dec. 29, '30. Foundation laid and 1st floor joists on \$2520 Frame up 2520 Brown coated 2520 Completed 2520 Usual 35 days 2520 TOTAL COST, \$12,600 Limit, 150 days. Plans and Spec. filed.

ALTERATIONS

(17) 123 POST ST.; alterations and construction of a store. Owner—Shreve and Barber, Ltd., 123 Post St. Architect—Willis Polk & Co., 277 Pine Street. Contractor—William Spivock, Hobart Bldg. Filed Jan. 19, '31. Dated Jan. 17, '31. 1st of each month 75% Usual 35 days 25% TOTAL COST, \$6250 Bond, \$3125. Sureties, The Aetna Casualty & Surety Co. Limit, Feb. 11. Plans and Spec. filed.

ALTERATIONS

(18) 650 SECOND ST.; alterations and additions to building. Owner—C. F. Weber & Co., premises. Architect—John E. Norberg, 680 Market Street. Contractor—J. W. Cobby & Son, 260 Tehama St.

BUILDING PERMITS

ALAMEDA COUNTY

No. Owner	Contractor	Amt.
44 State	Improved	1000
45 Bilate	Owner	2309
46 Chong	Yick	1000
47 Holler	Owner	3503
48 Meagher	Independent	1709
49 Robbins	Cone	1000
50 Taylor	Jensen	15009
50 French	Owner	3200
51 Lewis	Owner	2500
52 MacGregor	Owner	2500
53 MacGregor	Owner	3750
54 Pickrel	Owner	6000
55 Hohmschilds	Bent	2000
56 McKinley	Anderson	6800
57 Wright	Farringer	1000
58 De Luchi	Knight	8000
59 City of Oakland	Oakland	1300
60 Syder	Fisher	3090
61 Williams	Petersen	2900
62 Davis	Owner	1500
63 Key	Jensen	3000
64 Hummel	Rinkert	2500
65 Monez	Owner	4000
66 Matherer	Pickett	3000
67 Robb	Rose	2000
68 Anaclerio	Owner	3500
69 City of Oakland	Sullivan	2424

SIGN
 (44) 1600 BROADWAY, OAKLAND; electric sign.
 Owner—State Loan Office.
 Architect—Not Given.
 Contractor—Imp. Elec. Sign Co., 2228 Myrtle St., Oakland. \$1000

DWELLING
 (45) E 15th AVE. 35 N Foothill Blvd., OAKLAND; 1-story 5-room dwelling.
 Owner and Builder—Joe Bilate, 1144 12th St., Oakland.
 Architect—Not Given. \$2890

ALTERATIONS
 (46) 373 EIGHTH ST., OAKLAND; store front alterations.
 Owner—Ying Chong, 373 8th St., Oakland.
 Architect—Not Given.
 Contractor—Frank Yick, 300 8th St., Oakland. \$1600

DWELLING
 (47) E 105th AVE. 150 N Breed Ave., OAKLAND; 1-story 5-room dwelling.
 Owner and Builder—Paul H. Holler, 1612 Hearst Ave., Berkeley.
 Architect—Not Given. \$3500

SERVICE STATIONS
 (48) NW COR. 40th AVE. and Foothill Blvd., OAKLAND; two 1-story steel service stations.
 Owners—W. G. Meagher and H. Gede, 1824 Chase St., Oakland.
 Architect—Not Given.
 Contractor—Independent Iron Works, 1824 Chase St., Oakland. \$1700

ALTERATIONS
 (49) 3636 E 14th ST., OAKLAND; alterations to store front.
 Owner—M. H. Robbins, 1744 Broadway, Oakland.
 Architect—Not Given.
 Contractor—W. C. Cone, 1744 Broadway, Oakland. \$1000

RESIDENCE
 (50) 145 ALVARADO ROAD, BERKELEY; two-story 8-room frame and stucco residence and garage.
 Owner—Judge Taylor, 166 Tunnel Rd., Berkeley.
 Architect—W. R. Yelland, Financial Center Bldg., Oakland.
 Contractor—Jensen & Pederson, 3443 Adeline St., Oakland. \$15,000

RESIDENCE
 (50) NO. 81 BONNIE LANE, BERKELEY. One-story five-room one-

family frame residence.
 Owner—O. M. French, 1740 Walnut St., Berkeley.
 Architect—Not Given. \$3200

DWELLING
 (51) NO. 843 RAMONA AVE., ALBANY. Five-room dwelling.
 Owner—Mrs. Marlan Lewis, 841 Ramona Ave., Albany.
 Architect—Not Given. \$2500

DWELLING
 (52) NO. 815 SANTA FE AVE., ALBANY. Five-room dwelling.
 Owner—C. M. MacGregor, 470 13th St., Oakland.
 Architect—Not Given. \$2950

RESIDENCES
 (53) NO. 905, 913, 919, 925, 931 MARSON AVE. ALBANY. Five 5-room residences.
 Owner—C. M. MacGregor, 470 13th St., Oakland.
 Architect—Not Given. \$1950 each

DWELLING
 (54) NO. 742 LEE AVE., SAN LEANDRO. Two-story 6-room dwelling.
 Owner—J. H. Pickrell, 332 Santa Clara Ave., Alameda.
 Architect—Not Given. \$6000

ALTERATIONS
 (55) NO. 184 VINE ST., BERKELEY Alterations.
 Owner—Frank Hohmschilds, Oakland.
 Architect—Not Given.
 Contractor—E. M. Bent, 2125 Stuart St., Berkeley. \$2000.

DWELLING
 (56) NO. 1517 GIBBONS DRIVE, ALAMEDA. Two-story 6-room frame and stucco dwelling.
 Owner—C. A. McKinley, San Leandro.
 Architect—Walter H. Anderson.
 Contractor—Walter H. Anderson, 1014 Doris Court, Alameda. \$6500

STATION
 (57) NO. 2266 ENCINAL AVE., ALAMEDA. One-story brick super-service gasoline station.
 Owner—H. H. Wright, 1116 Broadway, Alameda.
 Architect—J. A. Farringer, 1804 Central Ave., Alameda.
 Contractor—J. A. Farringer, 1804 Central Ave., Alameda. \$1000

DWELLING
 (58) W KINGSLEY PLACE, 110 N Treastle Glen Road, OAKLAND; two-story 7-room dwelling.
 Owner—P. DeLuchi, 327 17th Street, Oakland.
 Architect—H. L. Slocombe, 62 York Drive, Oakland.
 Contractor—H. C. Knight, 327 17th St., Oakland. \$8000

GARAGES
 (59) OAKLAND MUNICIPAL AIRPORT; one-story garages.
 Owner—City of Oakland.
 Architect—Not Given.
 Contractor—Port of Oakland, Oakland Bank Bldg., Oakland. \$1300

DWELLING
 (60) 3142 CARLSEN ST., OAKLAND; one-story 5-room dwelling.
 Owner—Jas. L. Syder.
 Architect—Not Given.
 Contractor—Jas. G. Fisher, 3870 Lily St., Oakland. \$3900

DWELLING
 (61) N HANLEY ROAD 100 W Warehouse Road, OAKLAND; one-story 5-room dwelling.
 Owner—C. M. Williams, 1637 Chestnut St., Oakland.

Architect—Not Given.
 Contractor—E. Petersen, 1425 Santa Fe Ave., Berkeley. \$2900

DWELLING
 (62) REAR 2507 EAST 27th STREET, OAKLAND; one-story four-room dwelling.
 Owner and Builder—E. J. Davis, 2507 East 27th St., Oakland.
 Architect—Not Given. \$1500

ALTERATIONS
 (63) SW COR. 22nd and Grove Sts., OAKLAND; alterations.
 Owner—Key System Transit Co., SW Cor. 22nd and Grove Sts., Oakland
 Architect—Kent & Hass, Underwood Bldg., San Francisco.
 Contractor—Jensen & Pedersen, 3443 Adeline St., Oakland. \$3000

DWELLING
 (64) 3868 WYMAN RD., OAKLAND; one-story 5-room dwelling.
 Owner—Theresa Hummel, 2911 Nicol Ave., Oakland.
 Architect—Not Given.
 Contractor—F. Rinkert, 362 8 Porter St., Oakland. \$2500

DWELLING
 (65) 4225 EDGE DRIVE, OAKLAND; one-story 6-room dwelling.
 Owner and Builder—A. H. Monez, 4350 Arden Place, Oakland.
 Architect—Not Given. \$4000

DWELLING
 (66) S MADERA AVE., 400 W Camden St., OAKLAND; one-story 4-room dwelling.
 Owner—Jennie Matherer, Oakland.
 Architect—Not Given.
 Contractor—W. E. Pickett, 3322 Redding St., Oakland. \$3900

REPAIRS
 (67) 2763 E 23rd ST., OAKLAND; fire repairs.
 Owner—N. C. Robb, 2763 E 23rd St., Oakland.
 Architect—Not Given.
 Contractor—A. H. Rose, 478 25th St., Oakland. \$2000

RESIDENCE
 (68) NO. 2200-2204 BROWNING ST., BERKELEY. One-story 6-room 2 family frame residence.
 Owner—F. Anaclerio, 2124 Fifth St., Berkeley.
 Architect—Not Given. \$3500

ADDITION
 (69) OAKLAND Municipal Airport; addition to hangar.
 Owner—City of Oakland.
 Contractor—Sullivan & Sullivan Bldrs. Exchange, Oakland. \$2424

BUILDING CONTRACTS

ALAMEDA COUNTY

No. Owner	Contractor	Amt.
12 Holdorf	Service	230
13 Replogle	Beadell	2060

RESIDENCE
 (12) LOT 176, Junction City Tract, Alameda County. All work for installation of plumbing and heating fixtures in residence.
 Owner—George Holdorf, 1816 7th St., Oakland.
 Architect—Not Given.
 Contractor—Service Plumbers, 656 E 14th St., San Leandro.
 Filed Jan. 17, '31. Dated Dec. 11, '30.
 Fixtures delivered 60%
 Work completed Balance
 TOTAL COST, \$230
 Bond, limit, forfeit, plans and specifications, none.

GARAGE
 (13) 931 MENDOCINO AVE., Berkeley; building concrete garage and alterations to residence.
 Owner—D. Ben Replogle, Berkeley.
 Architect—Bedell & Lane, 652 Fairview, Oakland.
 Contractors—R. Beadell and Geo. J. Lane, 662 Fairview, Oakland.
 Filed Jan. 21, '31. Dated Jan. 26, '31.
 When arranged concrete foundation.....\$15
 When rough plastered..... 515
 When completed..... 515
 Usual 35 days..... 515
TOTAL COST, \$2060
 Limit, 60 days.

Jan 19, 1931—444 MICHIGAN AVE., Berkeley. Markus Hardware Co vs E R and Fraye Converse.....\$35
 Jan 19, 1931—1104 CENTINI AVE., Oakland. Bay City Asbestos Co, Inc vs John Schott..... 350
 Jan 19, 1931—1184 EIGHTH Street, Oakland. Bay City Asbestos Co Inc vs Mrs L S Price.....\$162.50
 Jan 19, 1931—N BEGHER AVE 1025 R SW of Woodland Ave., San Leandro. Gilbert Fulton vs Henry F and Eleanor O Brunner, Joseph Franklin.....\$155.50
 Jan 17, 1931—444 MICHIGAN AVE., Berkeley. Mastercraft Electric and Roofing Co, \$110; Henry M Nash, \$156.70, vs E R and Fraye M Converse.....

BUILDING CONTRACTS

SAN MATEO COUNTY

DWELLING
 LOT 16 BLK 41, Lettered H, San Bruno. All work for two-story frame and stucco dwelling.
 Owner—Caterina De Resta.
 Architect—Not Given.
 Contractor—Jack Keiser, 475 Oak Ave. San Bruno.
 Filed Jan. 14, '31, Dated Dec. 31, '30.
 Roof on 25%
 When plastered 25%
 When completed 25%
 Usual 35 days 25%
TOTAL COST, \$2550
 Bond, none. Limit, 120 working days.
 Forfeit, \$20. Plans and specifications, vs

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded Accepted
 Jan 13, 1931—NO. 3730 PENNIMAN Ave., Oakland. John Fleming to whom it may concern..... 1931
 Jan 13, 1931—LOTS 1 AND 2 BLK F, New Town of Lynn, Oakland. Willey Hunnewell to Independent Iron Works.....Jan 10, 1931
 Jan 13, 1931—LOT 24 BLK 32, Amended Map of Fairmount Park, Albany. Thorvald and Caroline Pedersen to whom it may concern.....Jan 10, 1931
 Jan 13, 1931—LOTS 53 AND 54 BLK Y, Amended Map of Regents Park, Berkeley. Mina M Keeler to whom it may concern.....Jan 10, '31
 Jan 19, 1931—SE TENTH AVE 126 ft NE of East 22 nd St, Oakland. Umberto Cavallo to Self.....January 14, 1931
 Jan 19, 1931—3659 REDWOOD RD, Oakland. Axel Swanson to Self.....January 19, 1931
 Jan 17, 1931—LOT 16, Broadmore Park, San Leandro. Mitchell H Rodda to Walter H Anderson.....January 16, 1931
 Jan 17, 1931—PTN LOTS F53 and F54, Fairway Estates in Oak Knoll Oakland. Frederick C Fischler to Geo Windsor.....January 16, 1931
 Jan 15, 1931—801 37th AVE and 3628 East 8th St, Oakland. Paul Breitkopf to whom it may concern.....January 15, 1931
 Jan 16, 1931—894 44th ST, Oakland. E C Gilbert to Bryan Milton.....January 15, 1931
 Jan 16, 1931—NW SOLANO & Nielson Aves, Berkeley. Percy G Terzian to Independent Iron Works of Oakland.....January 9, 1931
 Jan 14, 1931—233 PACIFIC Avenue, Piedmont. H W Bernheim to Geo Windsor.....January 9, 1931
 Jan 14, 1931—1161 SANTA FE AVE, Albany. Marcus A Peel to whom it may concern.....January 10, 1931
 Jan 14, 1931—PTN LOT 7 BLK 56, Summit Drive Park, Oakland. J A and Elizabeth McCord to J A McCord.....January 13, 1931
 Jan 14, 1931—4927 PROCTOR AVE, Oakland. W A Netherby to whom it may concern.....January 12, 1931
 Jan 15, 1931—720 HILLDALE, Berkeley. Albert Hammarberg to Self.....January 14, 1931
 Jan 15, 1931—S LINE OF PALM AVE 150 ft W of Almond Avenue, Livermore. Frank L Klimler to J L Hutchins.....January 12, 1931
 Jan 15, 1931—LOT 24 BLK N, Ford Gardens Addn, Eden Twp. Severt J Johnson to H L Vallejo.....January 8, 1931
 Jan 15, 1931—NW BERRY AVE and Muir Street, Eden Twp. A Young to A F Hanson.....January 8, 1931
 Jan 15, 1931—3636 E 14th STREET, Oakland. M H Robbins to Wilbur C Cone.....January 8, 1931

Jan 17, 1931—LOTS 47 and 48 BLK 263/324 Milton Tct, Oakland. Victor P Hansen, Frank M Banks, Thomas Massie and Elmer A Friberg vs Standard Creamerys, Ltd, Ed L Lehan.....\$365.50
 Jan 17, 1931—927 MYRTLE ST, Oakland. Scott-Datner Elec Co vs Bessie Arlan, Joseph B Smith.....\$2,97
 Jan 15, 1931—LOTS 10 and 11 BLK C, map of the Major Given Tract Oakland. E K Wood Lumber Co vs Sam Dremer, Leon Veils, Melrose Steel Company.....\$22.50
 Jan 15, 1931—SE WEBSTER ST and Grand Ave, Oakland. Pacific Coast Engineering Co vs Grand-Webster Bldg Corp, Jacobs & Patiani.....\$344.50
 Jan 14, 1931—NE LINE of Western Pacific R R right of way intersection of NW line of parcel of land conveyed by K A Mathews in city of Oakland Nov 24, 1916. The Austin Co of Calif vs United Mfg Co, Gordon-Alten Co, Ltd.....\$5,534.91

GARAGE
 NO. 221 PARK ROAD, Burlingame. All work for one-story reinforced concrete garage.
 Owner—Frank C. Wyckoff, Premises. Architect—Edwards & Schary, 605 Market St., San Francisco.
 Contractor—Henry Voelker, 895 Winchester Drive, Burlingame.
 Filed..... Dated Jan. 5, 1931.
 Completed\$670
 Usual 35 days..... 300
TOTAL COST, \$970
 Bond, none. Limit, 60 days. Forfeit, \$10. Plans only filed.

Jan 14, 1931—PTN LOTS 148 and 149, Unit C of Oak Knoll, Oakland. Dudley D Morton, \$176; Edgar E Robertson, \$150; Burr M Matthews, \$139; Taylor Paint Mfg Co Ltd, \$2340; Clayton R Reynolds, \$208; M & S Tile Co, \$467.50; Arthur Frederick, \$87; Markus Hardware Co, \$98.90, vs Jesse D and Jewel R Colbert, Wm Arthur Jan 19, 1931—LOT 17 BLK 4, Thousand Oaks Heights, Berkeley. J L and J Z Todd as Western Door & Sash Co vs Earle R and Fraye M Converse.....\$310
 Jan 19, 1931—PTN LOTS 24 and 25 Selmar Avenue Tract, Oakland. E Barges, F Winters, H C Grady, W V Gibson and E Richards vs Miss E Olson.....\$139.50
 Jan 20, 1931—SW MONTANA ST and Champion Street, Oakland. Hutchinson Co Inc to J E Anderson, L E Duffin and George E Riding doing business as Duffin & Riding.....\$1237.13

DWELLINGS
 LOTS 47 AND 48, Huntington Park, San Mateo. All work for two dwellings.
 Owner—Glen Farr.
 Architect—Not Given.
 Contractor—M. Whitelock, San Bruno
 Filed Jan. 12, '31. Dated Nov. 15, '30.
TOTAL COST, \$6800
 Bond, none. Limit, 90 working days.
 Forfeit, plans and specifications none.

BUNGALOW
 LOT 9, Bayshore Highway. All work for five-room bungalow.
 Owner—Paul Werner.
 Architect—Not Given.
 Contractor—T. A. Belcher.
 Filed Jan. 8, '31. Dated Oct. 20, '29.
 As work progresses..... 75%
 Usual 35 days..... 25%
TOTAL COST, \$
 Bond, none. Limit, 120 working days.
 Forfeit, plans and specifications, none.

RELEASE OF LIENS

Alameda County
 Recorded Amount
 Jan 19, 1931—NE COR of Highway Dublin to Livermore and Highway from Dublin to Danville. Independent Lbr Co to L A Couch.....\$1126.95

BUILDING PERMITS

SAN MATEO

RESIDENCE, duplex, \$10,000; Lot 16 Blk A, Ninth Ave., San Mateo; owner and contractor, H. H. Randles, 1320 Vancouver St., San Mateo.
 RESIDENCE, \$4000; E 26 feet Lot 31, W 26 ft. Lot 32 Blk 7; Twenty-fifth Ave., San Mateo; owner, Castle Bldg. Co., 830 Market St., San Francisco; contractor, G. W. Morris.

LIENS FILED

ALAMEDA COUNTY

Recorded Amount
 Jan 19, 1931—733-35-37-39 36th St, Oakland. H Lansing vs J Sardo.....\$80

Member Insurance Brokers' Exchange

FRED H. BOGGS
 INSURANCE
 490 GEARY STREET

Phone FRanklin 9400

San Francisco

BUNGALOW, \$4500; Lot 1 Blk 9, No. 1942 Palm Ave., San Mateo; owner and contractor, D. Baccell.
 BUNGALOW, \$4000; Lot 17 Blk 19, No. 940 S-Fremont St., San Mateo; owner and contractor, Alhen Johansson, 1234 Eunice St., San Mateo

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
 Jan. 14, 1931—PART LOT 10 BLK 32 San Carlos. Clinton R Sisson to whom it may concern.....Jan. 14, 1931
 Jan. 16, 1931—PART LOTS 1 AND 2 BLK 20, East San Mateo. Ashley Powers et al to whom it may concern.....Jan. 15, 1931
 Jan. 16, 1931—LOT 4 BLK 6, Burlinghome. Richard P Minor to whom it may concern.....Jan. 13, 1931
 Jan. 17, 1931—LOT 13 BLK 7, San Mateo Volia Park. Nellie Brown to William B Nichols. Jan. 15, 1931
 Jan. 17, 1931—LOT 21 BLK 15, East San Mateo. Gus Meister to whom it may concern.....Jan. 15, 1931
 Jan. 17, 1931—LOTS 15 AND 16 BLK M, San Bruno. J R MacDonald to whom it may concern (2 completions).....Jan. 16, 1931
 Jan. 17, 1931—LOT 7-A BLK 1, Palo Alto Park. August Swanson to whom it may concern.....Jan. 15, 1931
 Jan. 12, 1931—LOTS 47 AND 48 BLK 11, San Bruno. Millard A White-lock to whom it may concern (2 completions).....Jan. 12, 1931
 Jan. 12, 1931—PART LOTS 21 AND 22, Burlingame Park. Caro Crockett Scott to J E Oswald.....Jan. 5, 1931
 Jan. 12, 1931—LOT 17 BLK 5, San Bruno. John R Parsons to whom it may concern.....Jan. 9, 1931
 Jan. 12, 1931—PART LOTS 1 AND 4 BLK 2, Lomita Park. O H Taylor to whom it may concern.....Jan. 8, 1931
 Jan. 12, 1931—LOT 17 BLK 2, Jefferson Park. Castle Blig Co to Henry Horn.....Jan. 6, 1930
 Jan. 12, 1931—PART BLK 3 RANGE "A" Mezesville. General Properties Co to Wells P Goodenough.....Jan. 10, 1931
 Jan. 12, 1931—PART LOT 19 & PART LOT 20 Blk 130, South San Francisco. Alberto Tagnetti to whom it may concern.....Jan. 10, 1931
 Jan. 13, 1931—PART LOT 269, San Mateo City Homestead. Robert Chapman et al to whom it may concern.....Jan. 12, 1931
 Jan. 13, 1931—LOT 41 BLK K, San Bruno. S Lombardi to Gus Magnuson.....Jan. 10, 1931
 Jan. 13, 1931—LOT 15, Lexington Park. George Moneriff to whom it may concern.....Jan. 13, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded Amount
 Jan. 15, 1931—LOT 32 BLK 10, Crocker Essee Tract, San Mateo Leo Tope vs J G Thompson et al.....\$176
 Jan. 16, 1931—LOT 38 BLK 14, Central Park, San Mateo. Schapke & Burke vs John Quinly et al.....\$447.11
 Jan. 17, 1931—LOTS 11 AND 12 BLK 1, Oakwood Tract, San Mateo. San Carlos Feed & Fuel Co vs R E Stewart.....\$216.10
 Jan. 17, 1931—2.95 ACRES. F r a n k Norica vs H F Coykendall.....\$425
 Jan. 17, 1931—LOT 1 BLK 69-A Santa Inez Park, San Mateo. Rein Hardware Co vs Hugh Hall.....\$110.30

Jan. 10, 1931—LOT 37, King Mountain Tract. San Mateo Planning Mill Co vs E C Peck et al.....\$141.25
 Jan. 10, 1931—LOT 2 BLK 2, Wooster Whitton & Montgomery. San Carlos Feed & Fuel Co vs S J Clements et al.....\$67.50
 Jan. 10, 1931—MILBRAE F M McNulty vs Minnie Daly et al.....\$108.54
 Jan. 10, 1931—LOT 68, Husing Sub. San Mateo City Homestead. F M McNulty vs E Peterson.....\$146.93
 Jan. 13, 1931—LOT 14 BLK 9, Cuesta La Honda. Melvin O Stone vs Sam M Skofield.....\$445

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded Amount
 Jan. 14, 1931—LOCATION NOT Given. Gray Thorning Lumber Co; Harry G Perry; C W Buckley and Orrin E Herreman to Louise Donovan.....

BUILDING PERMITS

PALO ALTO

STORE, 2-story, brick, \$1650; No. 405 California Ave., Palo Alto; owner, W. R. Bartley, 450 California Avenue, Palo Alto; contractor, Kelly Bros.
 RESIDENCE and garage, stucco, \$3500 No. 726 Columbia St., Palo Alto; owner, O. R. Meacham.
 DWELLING, rustic, \$3500; No. 2150 High St., Palo Alto; owner, E. H. Tucker; contractor, Roy Heald, 636 Webster St., Palo Alto.

BUILDING PERMITS

REDWOOD CITY

DWELLING, 7-room, bath and garage frame, \$9000; No. 948 Durlston Road, Redwood City; owner, Paul Butman, 415 Lincoln St., Redwood City.
 DWELLING, frame, 5-room, bath and garage, \$3000; No. 1117 Clinton St., Redwood City; owner, W. Stremie; contractor, S. E. Goss.
 DWELLING, frame, 5-room, bath and garage, \$5000; No. 173 King St., Redwood City; owner, John W. Morey.
 ADD two rooms, \$1200; No. 1440 Kentfield Avenue, Redwood City; owner, Miss I. Richards, Premises contractor, F. E. Stevenson.
 DWELLING, frame, 5-room, bath and garage, \$4500; No. 462 Iris St., Redwood City; owner, E P. Hovsie.

BUILDING PERMITS

SAN JOSE

RESIDENCE, 5-room frame, \$2750; Harliss near Edwards St., San Jose; owner and contractor, V. R. Caminetti, 975 Vine St., San Jose.
 INSTALL elevator in Class C building, \$5000; Court House Square, San Jose; owner, County of Santa Clara; contractor Thermotte Construction Co., 580 Stockton Ave., San Jose.
 RESIDENCE, frame, 6-room, \$6000; Chapman, near Naglee, San Jose; owner, C. W. Whiteside, 71 S-19th St., San Jose; contractor, Whiteside San Bros., 71 S-19th St., San Jose
 ALTER Class C building and install cold storage, \$3500; Santa Clara and 17th Sts., San Jose; owner, American Dairy Co., Premises;

contractor, Van Fleet Freear Co., 557 Howard St., San Francisco.
 RESIDENCE, 4-room, \$2200; Jackson St. near Ninth, San Jose; owner, Vick Lillo, 443 Jackson St., San Jose.
 RESIDENCE, frame, 5-room, \$3000; Seventeenth near Jackson St., San Jose; owner, B. C. Washburn, 346 Home St., San Jose.

BUILDING CONTRACTS

MARIN COUNTY

DWELLING
 FAIRFAX, All work for two-family dwelling (2 apartments).
 Owner—A. Simonini & G. Glori, Fairfax.
 Architect—Not Given.
 Contractor—H. F. Martin, Arroyo Rd. and Laurel Ave., Fairfax.
 Filed Jan. 14, '31. Dated Dec. 30, '30.
 Excavation completed.....500
 Brick work, etc., completed.....500
 1st floor brick work completed.....750
 2nd floor brick work completed.....900
 Roof on.....500
 When plastered.....500
 When completed.....500
 36 days after.....1300
 TOTAL COST, \$5200
 Bond, none. Limit, 120 days. Forfeit, none. Plans and specifications filed.

RESIDENCE
 MILL VALLEY All work for two-story residence and garage.
 Owner—Elmer M. Shapiro and Wife, 47 Cottage St., Mill Valley.
 Architect—Not Given.
 Contractor—Melvin Klyce, 25 Eugene St., Mill Valley.
 Frame up.....\$1610
 Brown coat plaster on.....1514
 When completed.....1610
 Usual 35 days.....1610
 TOTAL COST, \$6440
 Bond, \$3220. Surety, New Amsterdam Casualty Co. Limit, 120 days. Forfeit none. Plans and specifications filed.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 Jan. 16, 1931—LOT 1 BLK 107-A, West Side Addition City of Pittsburg. Sebastino and Nellie Junto to Charles Isackson also known as Charles Isackson.....Jan. 10, 1931
 Jan. 16, 1931—N.W. PTN LOT 170, Sub No. 4, Brentwood Irrigated Farms. Gertrude Hagy Allen to whom it may concern.....Jan. 7, 1931
 Jan. 17, 1931—LOT 15, North Richmond. Rome and Ella M Locks to George J Gordon.....Jan. 15, 1931

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 Jan. 13, 1931—LOT 18 AND S 1/2 LOT 17 Blk 8, Richmond City Center. James Walter Forbes to whom it may concern.....Jan. 10, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 Jan. 9, 1931—S 40 FT. LOTS 3 AND 4 and all Lots 5 and 6 Blk 320 of additional Survey of Town of Martinez. Port Costa Brick Works vs C. Arnaud, W Snelgrove and Victor De Vight.....\$1300
 Jan. 9, 1931—LOTS 31, 32 AND 33

Blk 35, North Berkeley Terrace.
C S Lane vs H F Block.....\$46
Jan. 10, 1931—IN WALNUT CREEK
Tilden Lumber & Mill Co vs J J
Hansen and A W Schneck.....\$234.91

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
Jan. 19, 1931—LOT 9 BLK 9, Pacific
Manor. John Cataffo, to L. A. Ran-
dolph and Wirt M West. Jan. 17, 1931
Jan. 14, 1931—LOTS 1, 3 AND 5 BLK
55, Stockton. P. G. & E. Co. to
J. A. Allen.....Jan. 8, 1931
Jan. 15, 1931—STATE HIGHWAY,
Stockton. Dept. of Public Works,
State of California to Lilly, Willard
and Beasotti (truck rental).....
.....Jan. 15, 1931

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
Jan. 12, 1931—S 100 FT. LOT 11, E.
H. Smyth's Subd of Blk 9, Mor-
gan's Addition, Santa Rosa. C
W Gandy to whom it may concern
.....Jan. 10, 1931
Jan. 20, 1931—PALM ST., Hotmayers
Elder to Santa Rosa. Martin D
Aberwein to whom it may concern
.....Jan. 12, 1931
Jan. 20, 1931—NO. 716 NASON ST.,
Santa Rosa. Jacob Sinner to H
H and H L Mitchell (H T Mitchell
& Son).....Jan. 20, 1931

LIENS FILED

SONOMA COUNTY

Recorded Accepted
Jan. 19, 1931—FIRST ST. also known
as Main St., Fulton. E M White
Lumber Co vs Winnie and George
Rich.....\$23.55

BUILDING PERMITS

STOCKTON

RESIDENCE and garage, \$2290; No
1555 E-Main St., Stockton; owner,
Abraham Elias; contractor, A. C
Dahl, 137 E-Pine St., Stockton.
REMODEL dwelling, \$1800; No 136
S-Madison St., Stockton; owner,
Luggi Gracherro, Premises; con-
tractor, J. A. Barry.
NEW store front, \$1400; No. 32 N
California St., Stockton; owner, M.
S. Arndt, 313 E-Main St., Stock-
ton; contractor, F. R. Zinck, 2034
N-Pacific Ave., Stockton.
DWELLING and garage, \$3800; No.
448 S-Regent St., Stockton; own-
er, F. Paul Dobson, 1150 W-
Harding Way, Stockton.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
Jan. 14, 1931—LOT 129 and E ½ Lot
127, Map of Grey Eagle Terrace,
Monterey. Wesley B Settle to
whom it may concern.....Jan. 10, 1931
Jan. 15, 1931—LOT 3 BLK 22, Monte
Lido No. 1, Monterey. W M
O'Donnell to W C Mann. Jan. 12, 1931
Jan. 16, 1931—LOT 8 BLK 15, Map
of Little's Survey of New Mon-
terey. A Lippman to whom it
may concern.....Jan. 14, 1931

LIENS FILED

MONTEREY COUNTY

Recorded Amount
Jan. 19, 1931—LOT 12 BLK 174, 5th
Addition to Pacific Grove. Wade
Halstead vs Chas Williams.....\$1697.08
Jan. 20, 1931—LOTS 9, 10 AND 11
Blk 12, Map of Little's Survey of
New Monterey. Wade Halstead
vs Frank Di Giorno.....\$1805.64

BUILDING PERMITS

SACRAMENTO

RESIDENCE, 5-room, \$4800; No. 1732
Berkeley Way, Sacramento; own-
er, Jas. Pedone, 914 S St., Sacra-
mento.
RESIDENCE, 6-room, \$5000; No 1325
35th St., Sacramento; owner, Ed-
ward Lee, 2314 27th St., Sacra-
mento.
RESIDENCE, 7-room, \$8000; No. 3701
19th St., Sacramento; owner,
Frank Mead, Rt. 1 Box 347, Sacra-
mento; contractor, Mead & Mead
Constr. Co.
RESIDENCE, \$4450 No. 816 47th St.,
Sacramento; owner, Properties Fi-
nance Corp.
REMODEL, \$3000; No. 1616 I St.,
Sacramento; owner, C. M. Coffing,
1320 K St., Sacramento; contrac-
tor, Campbell Constr. Co., 800 R
St., Sacramento.

RESIDENCE, 6-room, \$4500; No. 2618
Marty Way, Sacramento; owner,
Mitro Basutin, Bryte.
RESIDENCE; 7-room, \$6500; No. 3632
McKinley Blvd., Sacramento; own-
er, R. W. Brown, Placerville; con-
tractor, J. H. Wahl, 3117 T St.,
Sacramento
GENERAL repairs, \$11,000; No. 1115
Alhambra Blvd., Sacramento;
Kaiser Bros., 16th and P Sts., Sacra-
mento; contractor, Wahl &
Pesse, 1107 J St., Sacramento.
RESIDENCE, 6-room, \$4500; No. 2618
Marty Way, Sacramento; owner,
Mitro Basutin, Bryte; contractor,
John Vasutin Frances.
HANG sign, \$1000; No. 292 K St., Sacra-
mento; owner, H. Katz, Prem-
; contractor, Waxon Bros.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
Jan. 7, 1931—E ½ LOT 1, H, I, 22nd
and 23rd Sts., Sacramento. Ange-
line E Hammond to whom it may
concern.....Jan. 7, 1931

LIENS FILED

SACRAMENTO COUNTY

Recorded Amount
Jan. 16, 1931—LOT 5 BLK A, Fair-
mond. Hohrecht Lighting Fixture
Co vs Thos Holnerstoll and C F
Rice.....\$21.70

BUILDING PERMITS

FRESNO

DWELLING and garage, \$4000; No.
1010 Vassar Ave., Fresno; owner,
A. G. Lampases, Palm Ave.,
Fresno.
DWELLING, \$4000; No.2211 N-Van
Ness Ave., Fresno; owner, F. M.
Wilson, 2215 N-Van Ness Ave.,
Fresno; contractor, Chris Som-
mers Jr, 1931 Safford St., Fresno.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
Jan. 16, 1931—LOT 4 BLK 3 Blvd.
Gardens No. 2, J D Brase to whom
it may concern.....Jan. 15, 1931
Jan. 17, 1931—LOTS 35 AND 36 BLK
70, Sierra Vista Addition No. 4.
A J Powell to whom it may con-
cern.....Jan. 16, 1931
Jan. 13, 1931—LOTS 25 AND 26, Re-
creation Park, Fresno. Oscar
Jacobson to whom it may concern
.....Jan. 12, 1931
Jan. 15, 1931—LOTS 18 AND 19 BLK
2, Howark Park, Fresno. Thos M
Catic to whom it may concern ..
.....Jan. 14, 1931
Jan. 15, 1931—LOTS 37 AND 38 BLK
4, College Addition, Fresno. Anne
Lehman to whom it may concern
.....Jan. 14, 1931

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be re-
ceived at the office of the State High-
way Engineer, Public Works Building,
Sacramento, California, until 2 o'clock
P. M. on February 11, 1931, at which
time they will be publicly opened and
read, for construction in accordance
with the specifications therefor, to
which special reference is made, of
portions of State Highway, as follows:
San Bernardino County, between
one and one-half miles east of Essex
and one mile southeast of Klinefeiler
(VII-SBd-55-L,M,N), about twenty-
nine and two-tenths (29.2) miles in
length, to be graded and surfaced
with oil crushed gravel or stone.
Proposal forms will be issued to
those Contractors who have furnished
a verified statement of experience and
financial condition in accordance with
the provisions of Chapter 644, Statutes
of 1929, and whose statements so fur-
nished are satisfactory to the Depart-
ment of Public Works. Bids will not
be accepted from a Contractor to
whom a proposal form has not been
issued by the Department of Public
Works.

Plans may be seen, and forms of
proposal, bonds, contract and specifi-
cations may be obtained at the said
office, and they may be seen at the of-
fices of the District Engineers at Los
Angeles and San Francisco, and at the
office of the District Engineer of the
district in which the work is situated.
The District Engineers' offices are lo-
cated at Eureka, Redding, Sacramento,
San Francisco, San Luis Obispo,
Fresno, Los Angeles, San Bernardino
and Bishop.

A representative from the district
office will be available to accompany
prospective bidders for an inspection
of the work herein contemplated, and
Contractors are urged to investigate
the location, character and quantity
of work to be done, with a representa-
tive of the Division of Highways.
It is requested that arrangements for
joint field inspection be made as far
in advance as possible. Detailed in-
formation concerning the proposed
work may be obtained from the district
office.

No bid will be received unless it is
made on a blank form furnished by
the State Highway Engineer. The
special attention of prospective bidders

is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

C. H. PURCELL,

State Highway Engineer.

Dated January 14, 1931

NOTICE TO CONTRACTORS

**General, Electrical, Plumbing, Heating and Ventilating Work
Pacific Colony**

SEALED BIDS will be received by Geo. B. McDougall, State Architect, Public Works Building, 11th and P Streets, Sacramento, California, up to 2 o'clock P. M., Tuesday, February 17, 1931, said bids thereafter on said day to be publicly opened and read for the erection and completion of the Hospital Building, Administration Building and Girls' Industrial Building, Pacific Colony, Spadra, California, in accordance with plans and specifications therefor.

The Hospital Building is two-story reinforced walls and floors, tile partitions and the roof on wood construction. Total floor area is approximately 18,000 square feet. The Administration Building is one story reinforced concrete walls and floor, tile partitions and tile roof on wood construction. Total floor area is approximately 4300 square feet. The Girls' Industrial Building is a one story addition with reinforced concrete walls, wood floor, partition and roof construction and tile roof. Total floor area is approximately 2200 square feet.

Separate bids will be entertained for the following segregate part of the work and combinations thereof:

1. General Work embracing all branches of the construction other than plumbing, heating, ventilating and electrical.
2. Electrical Work.
3. Plumbing, Heating and Ventilating Work.
4. Complete Plumbing, Heating, Ventilating and Electrical Work.

Contractors must state clearly in their application the particular segregation of work that they desire plans for.

Plans and specifications are on file for examination in the offices of the Division of Architecture, Public Works Building, Sacramento, and Room 1025 Associated Realty Building, Los Angeles, and at the principal California Cities Builders' Exchange Offices.

Plans, specifications, and proposal forms may be secured by licensed Contractors who have qualified or who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes, 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

Bids will not be accepted from a Contractor to whom a proposal form has not been issued and all bids must be on proposal forms supplied by the State.

Requests for plans shall be accompanied by a deposit of twenty-five (\$25.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition,

at Sacramento Office of the Division within 30 days after opening bids, otherwise it will be forfeited to the State.

All bids must be filed at the office of the State Architect on or before the time heretofore stated and in accordance with the "Rules for Bidding" accompanying the proposal form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the "State Engineer, Department of Public Works," in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, Department of Public Works, reserves the right to reject any or all bids and to waive any informality in any bid received.

DEPARTMENT OF PUBLIC WORKS,
DIVISION OF ARCHITECTURE,

Geo. B. McDougall,

State Architect.

WALTER E. GARRISON,

Director of Public Works.

NOTICE TO CONTRACTORS

**General, Electric, Plumbing and Heating Work
Norwalk State Hospital**

SEALED BIDS will be received by Geo. B. McDougall, State Architect, Public Works Building, 11th and P Streets, Sacramento, California, up to 2 o'clock P. M., Tuesday, February 17, 1931, said bids thereafter on said day to be publicly opened and read for the erection and completion of three buildings, namely, Quarters for Night Attendants, Quarters for Day Attendants and Assistant Physician's Residence, Norwalk State Hospital, Norwalk, California, in accordance with plans and specifications therefor.

The Quarters for Night Attendants is two story reinforced concrete walls and floors, tile partitions and tile roof on wood construction. Total floor area approximately 7600 square feet. The Quarters for Day Attendants is two story reinforced concrete walls, wood floor, partitions and roof construction and tile roof. Total floor area approximately 6800 square feet. The Residence is one-story frame, exterior stucco walls and shingle roof and of approximately 1800 square feet.

Separate bids will be entertained for the following segregate part of the work and combinations thereof:

1. General Work and Alternates, embracing all branches of the construction other than Plumbing, Heating and Electrical.
2. Electrical Work and Alternates.
3. Plumbing and Heating Work and alternates.

4. Complete Mechanical including Plumbing, Heating and Electrical Work and Alternates.

Contractors shall state clearly in their application the particular segregation of work that they desire plans for.

Alternative bids, affecting both General and Mechanical Work, will be required, one for completing of Day Attendants building before starting Night Attendants building, designated as Alternate #1, and one for adding a bed room, closet and bath wing to the Residence, designated as Alternate #2; all in accordance with specifications and drawings therefor.

Plans and specifications are on file for examination in the offices of the Division of Architecture, Public Works Building, Sacramento, and Room 1025 Associated Realty Building, Los Angeles, and at the principal California

Cities Builders' Exchange Offices.

Plans, specifications, and proposal forms may be secured by licensed Contractors who have qualified or who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes, 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

Bids will not be accepted from a Contractor to whom a proposal form has not been issued and all bids must be on proposal forms supplied by the State.

Requests for plans shall be accompanied by a deposit of twenty-five (\$25.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition, at Sacramento Office of the Division within 30 days after opening bids, otherwise it will be forfeited to the State.

All bids must be filed at the office of the State Architect on or before the time heretofore stated and in accordance with the "Rules for Bidding" accompanying the proposal form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the "State Engineer, Department of Public Works," in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, Department of Public Works, reserves the right to reject any or all bids and to waive any informality in any bid received.

DEPARTMENT OF PUBLIC WORKS,
DIVISION OF ARCHITECTURE,

Geo. B. McDougall,

State Architect.

WALTER E. GARRISON,

Director of Public Works.

Fifty-six employees of the Howard-Cooker Corporation, manufacturers of road machinery, contractors' equipment and fire fighting apparatus, with headquarters at Portland, Ore., have recently acquired life insurance protection. The total amount of the policy involved is \$150,000, covering 56 workers. According to the terms of the policy the workers are insured in amounts ranging from \$1000 to \$4000, the amount being based on the rank or position held. The policy is of the contributory type, which means that the premiums will be shared by both the employees and the employing company.

Under a bill introduced in the senate by Senator J. M. Inman of Sacramento, the sale of electrical and gas appliances by public utility corporations would be prohibited.

Inman said the bill is sponsored by dealers of appliances who complain that the activity of the public utility corporations in this field is injuring their business.

They feel the public utility corporations are organized for the specific purpose of public service and they should not enter the merchandising field.

Power and gas companies have been engaged in the sale of appliances in California for some time.

The Cement Contractors' Association of Southern California has decided to adopt as its emblem a representation of a cement bag standing upright.



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LAMONT SEES RESUMPTION OF U. S. PROSPERITY

Confidently looking to the future and a continuation of the forward march of business, Secretary of Commerce Lamont predicts that when the present recession is over the upward movement in industrial efficiency and production per man will be resumed.

His report to President Hoover on the status and progress of America industry and commerce during the fiscal year 1930 revealed clearly and concisely the effects of the stock market crash of a year ago, but pointed out that "practically no cuts in wages have been made as a result of the recession."

Describing the advance in efficiency of production as the fundamental cause of the rise in the standards of living which has characterized every decade of our national existence, Lamont said:

"This progress in the production per man during recent years is conclusive evidence that the advance in economic activity has not been wholly or even chiefly a mere upswing in the business cycle to be followed by an equally great downward movement.

"It has marked a permanent achievement, and when the present recession is over the same upward movement will unquestionably be resumed."

Employment during the year declined 3.7 per cent, the secretary said, while wages fell off 5.3 per cent, the difference being accounted for by the prevalence of part-time work.

The cost of living declined about 5 per cent between November, 1929, and June, 1930, according to the report.

6-HR. DAY FOR SAN MATEO COUNTY PLASTERERS VOTED

Adoption of the six-hour day for plasterers and hod carriers was voted the solution of the unemployment problem in San Mateo County at a mass meeting of plasterers last Saturday.

Once plasterers at the meeting, however, strongly opposed the six-hour day proposal and declared that the unemployment crisis in building trades in San Mateo County could best be solved by working five days a week and shifting the jobs around so that each member of the union would have a chance to work.

The meeting was attended by nearly 100 plasterers and hod carriers. Speakers declared that 80 per cent of the plasterers and hod carriers in the district were out of work.

Thomas Price, president of the union, presided at the meeting. Among speakers for the boss plasterers were George Leith and Sam Rossi.

WILBUR DEFENDS RESTRICTIONS ON BOULDER LUMBER

Secretary Wilbur explains the procedure the Interior Department would follow in awarding contracts for ties for the Boulder City-Hoover Dam Railway in answer to protests by independent lumber operators of the Pacific Northwest.

The protests were made against the stipulation that the ties should meet grade marks established by the National Lumber Manufacturers' Association and followed by its various member groups, such as the West Coast Lumber Manufacturers' Association. (The protests were brought by independent operators who are not members of the associations.)

The low bid for supplying the ties was made by a non-member of the National Association. The contract for the ties has not been let.

Secretary Wilbur explained the department was required by the compulsory general and the chief coordinator to follow the grade marks of the association.

This, he said, was because the department had no authority to appoint inspectors, as the association saw that all lumber bearing its grade marks met the requirements.

FELLOW SUBMITS S. F. HARBOR BILL

A bill, the effect of which would be to take control of San Francisco from the state and place it in the hands of a port district, has been introduced in the senate by Senator Roy Fellow of San Francisco.

The bill would create a port district of San Francisco, and provide for the appointment of nine port commissioners by the governor.

All of the commissioners would come from the port district, which would include the city of San Francisco. The city then would submit bond issues for needed improvements and any moneys received in revenues would be turned over to the control of the district.

A general manager would be appointed by the district commissioners.

DAYTON EXCHANGE PLANS CREDIT BUREAU

Plans for the establishment of a credit bureau have been announced by the Builders' Exchange, of Dayton, Ohio, and the Dayton Chapter of the Associated General Contractors. Credit bureau plans in other cities throughout the country have been analyzed and several meetings of the Dayton organizations have been held to consider them. A committee of the A. G. C. chapter, consisting of Ben Danis, chairman, Park Wineland and Louis Prinz has been appointed to outline a plan applicable to the situation in Dayton and in a short time it is expected to present its credit stabilization proposal.

CITY MANAGER SEEKS HIS DOLLAR PER YEAR SALARY

"It's not the principle of the thing, it's the dollar I want," declared W. A. Richmond, city manager of San Leandro, as he sought to obtain from the city his year's pay for the office of city engineer.

The city manager admits that he overlooked his annual payday last July, but holds that that is no reason why the money, with interest, shouldn't be forthcoming even at this late date.

"I think there's a law or something that dissolves such debts after six months have elapsed," City Clerk E. F. Hutchings informed Richmond, after the demand had been made. "How can I keep track of such little dinky salaries, particularly if you can't even remember them?"

When Richmond assumed the city manager's job, he also took over the city engineer's job, the \$1 a year salary being fixed for the sake of legality. He received his first check, which he turned over to a swimming pool fund, but the second was not forthcoming.

"I can use that dollar to good advantage right now, and I intend to get it if a special session of the city council has to be called," the city manager-engineer declared vehemently.

BALTIMORE BUILDERS KNOCK OFF PROFITS

In order to encourage private construction projects and to relieve unemployment, most of the contractors associated in the Baltimore Builders' Exchange have agreed to accept contracts for work this winter at cost without profit to themselves.

This decision of the builders was announced to Arthur Woods, chairman of the President's Emergency Committee for Employment.

This action has been opposed by the Baltimore Building Trades Council because its members feel that it is unsound economically and would cause lead to reduction in wages.

LIME PLANT IS PLANNED IN PLACER

Formation of a \$500,000 corporation, known as the Auburn Chemical Lime Co., Ltd., is announced by Hugh T. Dyer, Auburn engineer, who states that the company plans to develop lime properties near Rattlesnake Bar, where he believes a deposit of about 11,000,000 tons of lime rock is located.

Dyer is to be president and general manager of the corporation, and Charles Kemper, Auburn orchardist, is to be secretary. The rock runs better than 98 per cent pure calcium, it is stated by Dyer.

SAVINGS ACCOUNTS RELEASED FOR NORMAL SPENDING WOULD PROMPT BUILDING CONSTRUCTION

Recently the editor of The Constructor, official organ of the Associated General Contractors of America, discussed the formation of a Construction Development Bureau for promoting construction work of all kinds. The opinions of all branches of the industry were requested in regard to such a bureau. The reply of Lancelot Sukert, president of the Michigan State Society of Architects, is interesting. It is republished herewith.—Editor

By Lancelot Sukert

(a) It is urgent and necessary that some promotion work be done to acquaint bankers, trust company officials and other individuals controlling the sources of money supply, with the fact that there is considerable difference in the quality of construction work entering into buildings. Experience, in this locality at least, proves that loans are based upon the size of buildings rather than upon their quality.

In several instances, applicants for loans who inform the loaning officers of the amount which they expect to pay, based upon a specification requiring materials harmoniously selected for long service, hard wear and low upkeep, have been advised to go to another architect or to obtain bids from another contractor, naming in each instance individuals who have either designed or built buildings of similar size but at lower cost. Loaning officers have, in this manner, actually demanded shoddy and cheap construction, thereby creating short-lived collateral for their loans. As a result, when they have had to foreclose, they have taken back buildings requiring constant repairs and costly upkeep. Furthermore, by promoting shoddy building, they have found it necessary, year after year, to lower the loaning percentage.

It will take considerable promotion directed at financing institutions to educate them to consider favorably structures having built-in quality, honest value and materials selected for long life and low upkeep. Such structures maintain original income levels and practice over a sufficient period of years to amortize their erection cost, while the shoddy type which they have been promoting go to pieces and demand heavy upkeep expense long before their costs can be amortized.

(b) Promotion work should be done to inform the public of the high **eventual-cost** of low initial-cost materials. Architects generally have learned by experience that it is folly to specify shortlived materials, appliances, finishes, etc., in order to obtain low-initial-cost buildings, except in the cases of temporary structures. Some of the nationally advertised products are of such poor quality that they are not worth the trouble and cost of their manufacture. Many producers make shoddy products for no other reason than to meet price competition.

This condition has been engendered by speculative builders whose responsibility ends with the sale of the completed building. From the retail merchant on down, advertisers, both local

and national, have defied cheapness and have brought upon their own heads a public demand for low priced materials. This can be offset only by national publicity and a general change of policy.

(c) Promotion work should be done to correct many current practices among the contractors themselves. The architect can be the contractor's best friend, and always desires to have his work executed by the highest grade contractor who can be obtained for the money he is given to spend for the owner. Contractors should do everything possible to foster the success of the architect.

Many of our largest and most financially responsible contractors have taken it upon themselves to promote, advertise and sell architectural service, thereby engendering an antagonism on the part of many members of the architectural profession. We heard it repeated that one of our local contractors foretold that, within a few years, the general contractors organizations will have absorbed all of the architects. It is true that many of us are so broad-minded that, despite the efforts of contractors to supplant our services completely, we have believed it to the best interests of our clients to invite these same contractors to bid in our offices, thereby turning the other cheek.

The architects have found it necessary, in most cities, to take the initial step in bringing about closer co-operation between contractors and architects. We, in Detroit, have formed "The Architects-Contractors Joint Committee," a sort of grand jury and court of appeals rolled into one, formed for the purpose of clarifying the atmosphere generally, as well as for settling disputed questions concerning building practice. We hope to iron out, to some extent at least, various unfair bidding practices, the obnoxious practice of peddling among sub-contractors after general contracts have been let, as well as many similar unfair practices forced upon the building industry by incompetents and price-cutters. We hope further to allocate definitely responsibility and to standardize certain specification clauses covering the same.

(d) The architectural profession is awake to the fact that it must do its own house-cleaning. Together with the balance of the building industry, this profession is grossly underpaid. In the past 30 years the work and responsibility of the architect has increased a thousand fold. That this is a fact is easily proved by making comparison between a set of plans and specifications produced 30 years ago and similar work produced today. When payment to the architect is made on the basis of a percentage of the cost of the building, the percentage remains practically the same as it was 30 years ago.

Nevertheless it must be admitted that we suffer the same price-cutting competition that is rife among the general bidders. The public has no conception of the amount of work required on the part of the architect to complete the service which he conscientiously believes he should render.

For several years I have been a protagonist of national publicity to educate the public concerning the service of the architect. The number of disciples increases from year to year and we are led to suspect that it is only the staggering burden of initial expense that now restrains our national organization from entering upon a campaign of educational publicity.

(e) We must, unfortunately, resort to legislative lobbying, whether we like it or not. It is regrettable that our present system of government places prime importance upon maneuvering for political supremacy. From the national Congress, through the state legislatures and on down to city councils and village supervisors, the right and justice of many measures is often held secondary to political jockeying. Much urgently needed legislation becomes the object of political trading.

Even when politics momentarily take second place, it is always necessary to inform each member of any legislative body concerning all the arguments for and against any proposed measure. Indeed, it would be hopeless to introduce any legislative measure without first having obtained all the political influence possible to further its enactment, and then doing everything possible to inform properly each member of the legislative body concerning its merits. There are but few measures introduced without background of selfish interest of some sort.

(f) Construction can not be promoted until the backbone of the depression has been broken. This will not occur until the vast sums of money lying dormant in savings accounts have been released for normal spending. Construction activity is bound to follow.

No one seems to have found the solution for this problem. On every hand we read various versions concerning the cause of the depression. The efforts to break it are as yet largely local, individual and unorganized. The banks will soon be forced to lower, perhaps even to cancel entirely the interest paid on savings, since they now have great difficulty in handling the money to produce a profit. Perhaps the reduction or cancellation of interest may bring about a release of the vast sums now deposited in savings. It may, however, effect a complete withdrawal, thereby causing a worse condition than exists at present, a condition similar to that prevalent during 1907, when printed script was resorted to as a substitute for currency.

At best the construction industry can not hope to lift itself by its own bootstraps. It must await and finally enthusiastically support a well-planned, concerted, nation-wide, nay, world-wide constructive effort to re-create a normal situation. Much intended building as well as upkeep work has been temporarily put off. The longer it takes, the more active we will be making up for lost time. If there is any way to make people put the savings back into normal circulation, let's get behind the scheme and push with all our might and main.

"CONSTRUCTION CONSULTANT AND BUILDER" NEED OF BUILDING INDUSTRY, SAYS ARCHITECT

(By Harlan Thomas, A.I.A., in an address before the Pacific Northwest Branch, Associated General Contractors of America)

I do not like the term "contractor" and care less for the word "contract." It has a metallic click to it, like the snap of a pair of handcuffs—like the click of a ball and chain.

I believe that the Building Industry is in a state of transition, that a salutary evolution is in progress, that the old fashioned "General Contractor" is gradually being supplanted with what you might call "The Construction Consultant and Builder." The elements and conditions involved in the various phases of the building industry of this generation furnish the cause for this evolution.

The Architect of today has a vastly different task in designing a building than the Architect of any previous generation. The old solid masonry walls, the thin concrete walls of former times have been replaced by steel and reinforced concrete, thus introducing new and complicated elements of construction which involve in their fabrication the use of many mechanical devices and equipment.

The modern building as it is designed today is replete with mechanical equipment which must be the last word in a day which is labeled the "age of science and machinery." Elaborate systems of plumbing, heating and ventilation, electric wiring, vertical transportation and service and refrigeration as well as many other lesser items of mechanical contrivances and ducts must be worked in, around, over and under all kinds of structural sections without impairing them, crowded in and snuggled away from the main use of the structure and without requiring expensive construction. A knowledge must be had of an ever increasing variety of building materials subject to a constantly fluctuating market as well as the nature of all building specialties to be sorted over and selected from. Also an intricate classification of labor is to be scanned, which is constantly subject to influences and conditions which make for increased efficiency or reduce it. The degree of consideration given and judgment used by the architect and his draftsmen in the preparation of the plans and specifications which incorporate and set forth the construction, mechanical equipment and finish of the enterprise will be reflected in the cost of the structure.

In the preparation of plans, the question of cost is an ever present ghost in the draughting room. In the building investment of today if the cost is out of balance with the rental value the enterprise is wrecked. After the average architect's office has cubed their building and multiplied by some fluctuating cost per cubic foot they have just about reached their limit in ascertaining costs. The most helpful thing to an architect is to have an accurate estimate of the cost of the project in the early stages of planning. Wanting this, he is very likely to exceed the appropriation. The resultant necessity for a revision of the plans after completion (with a dissatisfied owner in the background) is the rock which has wrecked many an enterprise and many an architect.

What we need today and what we are gradually getting is a "Construction Consultant and Builder" who will stand side by side with us from the first survey of the site to the day when the keys for the completed building are turned over to the owner.

We want the builder to be at home in our draughting room from the start, in constant consultation with our draftsmen discussing with them all details of construction, finish and equipment from the constructors' point of view as one making for economy and efficiency.

There is much money wasted in building construction for want of collaboration between the architect's draftsmen and the one who is to have in charge construction of the building. Your continuous experience and daily contact with the myriad problems of construction, which you are seeking to solve in the interest of economy and efficiency in the buildings under your charge, your intimate knowledge of the building materials in use and their relative prices and adaptability for various purposes, your practical knowledge of building specialties, their uses and manner of application or installation and which you have doubtless used in many buildings, gleaned from actual experience, makes you a most valuable consultant from the beginning to the completion of a set of plans, specifications and details.

Then there is the other phase, that of estimating the cost, not only as to segregated items but the aggregate as well. It is in the early stages of design, when the problem is in its formative period, when the architect's imagination and enthusiasm has led him into a grandiose conception of the solution of his problem, that he should be brought back to earth with the definite information that his layout will run 50% over the appropriation, or on the other hand that he will be able to proceed with confidence, knowing that his preliminary program can be realized within the limit of the means at hand. The preliminary estimate of cost and during the preparation of the working drawings, the various phases of work as they are developed in the plans can be checked back against the preliminary estimate and brought into accord with it. We feel sure that this procedure would save in many building enterprises grief, and mutilation of an otherwise harmonious whole.

Upon completion of the plans and even before, if necessary, the construction consultant and builder could begin construction. The plans and specifications in every detail would be as an open book to him. His construction gang could be alerted and organized, his plan of procedure worked out, and speed of construction with economy and efficiency would be guaranteed.

Thus there would come to the architect a service which in this day and age he could not be expected to provide within the confines of his office organization. It would be well nigh impossible to include in an architect's office force a man who could be continuously your equal and keep "up to the minute" on all available materials and their relative costs, the fluctuating efficiency of labor, the latest methods of handling construction and its costs, the most economical and efficient mode of executing the many parts of the work and the proper cost to attach thereto.

Hence I am convinced that it is no discredit to the architect when he asks the owner to select his builder at the very beginning of the enter-

prise so that the architect may avail himself of the service I have described, which would prove so beneficial to the work and the owner's interest. I assume that there is not a builder here who would not be glad to perform all the functions of the "Construction Consultant and Builder" as I have outlined above, the problem at hand is to convince the owner to this program. Much progress has been and is being made in this direction. The best way to convince the owner is by demonstration. Every owner, before building, is likely to inquire as to what manner of procedure is followed by his neighbor and of its success or failure.

Under this plan it is assumed that the owner and architect will make a wise selection in their "Construction Consultant and Builder," taking into consideration integrity, skill and experience as well as organization and ability to perform commensurate with magnitude of the work. The owner, builder and architect, all with mutual concern for the work, will select sub-builders who also will assist in a practical and economical layout of their particular part of the work and all shall be on a time and material basis, with a reasonable fixed fee covering the builders' compensation for handling the work.

It is my sincere belief that the day is fast approaching when this system will become general usage. When this day comes, the many of the bad conditions in the building industry from which all are suffering, will disappear. Then the relations between owner, architect and builder will be based upon trust and confidence and all can and will work for the common purpose, which is the completion of the job with sound workmanship, in the shortest possible time, for the least possible cost.

BUILDING OPPORTUNITY OFFERED BY LOW COSTS

The status of the building industry from the point of costs, rapidity of manufacture, transportation and general efficiency presents greater opportunities to those wishing to build than has been the case for the last decade, according to Lou R. Crandall, president of the George A. Fuller Co.

This statement is based on an analysis recently completed by the company which shows that construction costs on large buildings are only 3½ per cent above the lowest point for the last ten years and on monumental type buildings are one per cent below the lowest point.

As compared with peak figures for the decade, the analysis shows that costs on all type of large buildings, such as factories, hotels, schools, show a decline of 10 per cent and on monumental buildings, such as banks, theatres, hospitals, churches and similar educational and institutional buildings show a decline of 4 per cent.

The greater decline in the cost of monumental buildings, Mr. Crandall states, is caused by the fact that producers of special building materials, such as ornamental iron and bronze-tile, cut stone, granites, marble and ornamental plasters must make greater price concessions in times when the construction market shrinks in order to get business than the industries producing for a more steady demand. Therefore, those buildings which make the greatest use of this type of material may be constructed at a comparatively lower cost than the more conventional buildings.

Schafer Bros. Lumber & Shingle Company of Montezano, Wash., have opened an office in the Western Pacific Bldg., Los Angeles, with E. E. Schmidt of the company's sales department in charge.

THE OBSERVER

What He Hears and Sees on His Rounds

Two bills fixing the minimum wage on public buildings and public works at five dollars a day have been introduced in the Nevada State Assembly. A. B. No. 1 by FitzGerald fixes the minimum wage on public buildings at five dollars a day, while A. B. No. 3 by McAuliffe fixes the wages on all public works at five dollars a day.

Palo Alto labor now has the protection which an ordinance formally adopted by the city gives.

The city council is on record approving the giving of preference to resident labor in public work done for the city of Palo Alto. The new law required that contractors give first choice for employment to artisans who have been residents here for at least one year prior to their engagement on a public work.

It is provided that the preference be given when the laborers have the required skill to perform the specified work. If there are not sufficient local workers to do the jobs, outside labor may be brought in.

The eight-hour day is specified and standard wages paid for similar work by private employers are established.

Penalties are provided in the event of violations of the provisions of the new law by contractors.

"A practical use for old, broken-down automobiles has been found at last. Decrepit, useless cars are now to be dumped into the ocean by a breakwater. It is said that many motorists save their old razor blades to throw into the Grand Canyon on visits there, but now they may also tow their old autos to Ventura, where they will be dumped into the ocean to build the breakwater, it is stated, harbor," according to the Automobile Club of Southern California. "The city of Ventura has applied to the Federal war department for a permit to build the breakwater, it is stated. Old cars will be dumped into the ocean and allowed to fill with sand and rock to form the barrier, according to plans of City Engineer Donald D. McMillan, who declares that this method has been used successfully in building revetments along the Missouri river in Montana."

Salinas, Calif., is considering the adoption of the Uniform Building Code of the Pacific Coast Building Officials' Conference.

Cities with 25 per cent of the assessed value of any county would receive 25 per cent of the gasoline tax money apportioned to the county by the state under the terms of a bill introduced by Assemblyman Geo. Bliss of Santa Barbara. The intent of the bill is to enable the cities to use a portion of the gas tax for street improvements.

Today the percentage of the total volume of work being performed by responsible contractors is without question higher than it was during the apex of construction activity in 1928. During 1931 it will undoubtedly be still higher, says The Constructor. "The problem of the responsible contractor today is one of weathering the storm and doing his bit to see that conditions are created in the in-

dustry which will prevent a return of irresponsible expansion, speculation and unsound competitive conditions which in the main are responsible for the present adverse conditions.

Frank C. MacDonald, general president of the California State Building Trades Council, has placed the Shell Oil Company on the "We don't patronize" list. "It is understood that the company will remain on the list until it assumes a different attitude toward organized labor.

In speaking of the boycott, MacDonald said:

"The recently constructed Shell Oil Company's office building in San Francisco was built under non-union conditions. At the present time the Shell chemical plant is being built in Contra Costa County under non-union conditions, and repeated complaints have been made that the erection, repair and maintenance work on Shell stations is being done under non-union conditions. Officials of the Shell Oil Company frankly state that the company operates under open shop conditions. Because of the aforesaid facts, the Building Trades Council of San Francisco has placed the Shell Oil Company on its 'We Don't Patronize' list."

The Keyes-Elliott bill designed to facilitate Federal building construction passed the House of Representatives and is now pending in the Senate. The measure has met with no opposition and will be passed at the present session of Congress. Under the provisions of the bill, the Secretary of the Treasury will be authorized to limit the issuance of plans and specifications to bidders of Government responsibility and to limit the time allowed for bidding by advertisements. Selection of sites for buildings will be made easier by allowing the Secretary to dispense with competitive bidding before the government obtains title to the land and employment of outside technical assistance in preparing plans is authorized.

The Oregon State Board of Architectural examiners is not authorized by state law to acquire a reference library for use of students preparing for examination, it was held in an attorney-general's opinion. Neither is the board permitted to conduct a contest for preparation of the best certificate, it was held. The opinion was requested by the State Board of Architectural Examiners in Portland.

Through J. M. Campbell, president, the Master Plumbers' Protective Association has requested the Oakland city council to reduce the present annual license fee of \$50 to \$25. It was stated that at least 15 members of the association are unable to pay the fee. It was referred to Commissioner Frank Colburn.

According to an Associated Press dispatch from Madrid, under date of January 22, Louis Rodriguez Yguir, minister of finance, proposed at a cabinet meeting that steps be taken against the dumping of Russian prod-

ucts, particularly lumber. He said recently Russia sold a cargo of lumber in Tarragona under the prevailing Spanish prices.

Under the provisions of a bill introduced in the New York State Senate it is provided that manual labor shall be substituted for machinery and labor-saving devices upon all public works whenever practical or expedient during the unemployment emergency.

Branded as the "spoils system" by anti-administration forces, Governor James Rolph's bill to abolish definite terms for all appointive State officials, boards and commissions was introduced in the State Senate by Senator Roy Fellow of San Francisco.

The measure would affect, in addition to others, the following officers, now serving four-year terms, by making their positions "at the pleasure of the governor": California State board of architectural examiners, State board of barber examiners, building and loan commissioner, insurance commissioner, State board of registration for civil engineers, civil service commission, State board of health, industrial accident commission.

Replying to a telegram from Col. Arthur H. Woods, of the President's Emergency Committee on Unemployment, outlining the committee's endorsement of the home modernizing movement as an aid to combat unemployment, the National Association of Real Estate Boards assured the committee of its readiness to co-operate with the administration in stimulating home ownership, home building, and replacements and improvements in buildings where such modernizing is economically sound for the owner. It stated, however, that a blanket recommendation to modernize old homes is, in the opinion of the Association, unsound.

As a possible connecting highway between Portland and the Pacific ocean the Oregon State Highway Department engineers have recommended what is called the ridge route, a strip 72.1 miles long which will cost approximately \$2,510,002 to construct.

As the name implies, the ridge highway would follow along a high ridge between the Coast range summit and Nehalem bay, in contrast to most of the other routes which follow river canyons to the sea.

It would follow either the present highway from Portland to Forest Grove creek, and thence to the coast via Gales creek or an entirely new and more direct route from Portland to Gales creek and thence to the coast.

Second choice of the engineers is the Wilson river route, which reaches the coast at the city of Tillamook. Third choice went to the Vernonia-Hamlet route, which strikes the Roosevelt coast highway at Necanicum, 13 miles south of Seaside.

To bring to holders of distressed properties, or old properties needing to be remodeled to meet present day competition the benefit of experienced property management advice, the National Association of Real Estate Boards has set up an entirely new type of business service, a consultation Service bureau for distressed properties and old properties needing rehabilitation. The Bureau will go in to the whole situation, including the financing situation and the rental situation, in regard to any building as to which it is consulted, and give detailed and specific recommendations as to how it can be put into a position to produce its maximum income return.

ALONG THE LINE

Adolph Telchert of Sacramento, was elected president of the Northern California Chapter, A.C.C., at the annual election held in San Francisco January 24. George Pollock, also of Sacramento, was elected to the board of directors.

Colonel Walter E. Garrison, state director of public works, has appointed William Clark, Sr., surveyor of the port of Eureka, succeeding F. B. Barnum. The appointment was made with the approval of Governor James Rolph, Jr.

George A. Lohrer, Seattle, Wash., for nineteen years construction superintendent for the W. T. Butler Construction Co. in Seattle, has withdrawn from that firm and is now engaged in general contracting business with offices in Seattle.

Gus Donovan of Santa Rosa, according to word from that city, has been named by the state administration, inspector of contractors' licenses for the northbay district. He will maintain headquarters in Santa Rosa.

H. I. Dygert, city engineer and building inspector of Albany, Calif., has been admitted to active membership in the Pacific Coast Building Officials' Conference.

W. B. Dean, for the past eight years general manager of lumber operations for the Diamond Match Company, with headquarters at Chico, has been elected vice-president of the company, to continue in charge of the company's lumber operations throughout California.

M. E. Armstrong, for 21 years city building inspector of Redlands, Calif., has resigned. L. H. Cooper, a contractor, has been named to fill the vacancy.

Yolo County clay is being tested by Gladding, McBean and Co., of San Francisco, with a view to using the substance for the manufacture of pottery, according to the Woodland Democrat.

Victor Shearer was elected president of the Portland, Oregon, Builders' Exchange at the annual meeting held last week. Other officers elected were Glenn Hord, vice-president; Hans Skibinski, treasurer, and V. H. Dent, secretary.

Chas. Butters, San Francisco, mining engineer, was given new recognition in New York when he was awarded the medal of the Mining and Metallurgical Society of Freiberg, Germany, for outstanding research work.

The Seattle city engineering department has been reorganized. Under the new arrangement, accomplished by City Engineer R. H. Thomson, Maj. O. A. Piper is chief assistant, a position he has been occupying for some time, but added to his duties is the supervision of bridge design. The bridge work was formerly handled by D. W. McCorris who is now court engineer. T. H. Carver continues as engineer in charge of water supply work. The city, for engineering purposes, has been divided into three districts, with an engineer in charge of each. C. W. Wartelle is in the north district, L. R. Andrews in the central and I. W. Embury in the south district, which includes West Seattle.

HERE—THERE
EVERYWHERE

Albert Pearson of San Diego, was elected president of the Master Painters and Decorators' Association of California at the annual convention held in Long Beach last week. Other officers are: Walker McKinley, San Jose, vice-president; A. S. Grant, Los Angeles, vice-president; Frank Magon, Oakland, vice-president; Max Cohn, San Francisco, treasurer; A. M. Craft, Los Angeles, secretary; Bud Zallchott, San Jose, sergeant-at-arms; Fred Kiesel, San Francisco, chaplain.

A recent ruling of the Industrial Accident Commission has made obsolete the ordinarily accepted types of disconnect switches on all motor circuits involving 300 volts or more. From now on, all installations will require the new switches.

Twelve plumbers in the Hayward district of Alameda County are working with Manuel G. Riggs, city plumbing inspector of Hayward, in framing a new city ordinance which shall be in accordance with a state-wide uniform code regulating plumbing installations.

Unofficial reports from San Rafael, Calif., are to the effect that a Builders' Exchange will be organized in that city in the immediate future.

At the annual meeting of the Ohio Contractor's Association held in Columbus last month, there was an overwhelming endorsement of proposals that the eight hour law be strengthened and enforced and that minimum wages be established to apply to each job and that these be determined upon and advertised at the time of advertising for bids.

Los Angeles City Council will submit to the voters in May or June of this year a proposal to issue bonds of \$5,000,000 to finance construction of sewers. The proposition was defeated at an election held last year.

Re-codifying of all building and loan laws of California is comprehended in a bill introduced by Senator J. M. Inman, chairman of the Senate building and loan committee.

The new measure carries suggestions made by H. L. Carnahan, State building and loan commissioner, the California Building Loan League and the Los Angeles county grand jury.

Senator Inman said: "The act gives greatly enlarged powers to the commissioner in reference to making rules governing building and loan associations, provides for a uniform system of accounts, gives the commissioner control over advertising by associations and provides for the publication of financial statements.

"The act provides for substantial cash reserves, the character of such reserves and the manner in which they shall be maintained; provides for the control by the commissioner over the organization of new associations and the establishment of branches; also stringent regulations in reference to the making of real estate loans."

The provision of competent and unprejudiced engineering assistance to develop specifications which assure real competition are necessary in the government purchasing organizations if the purchasing is to be conducted efficiently, according to L. E. Boffey, editor of the Purchasing Agent. Mr. Boffey also points out the need for testing and inspection facilities to insure compliance with specifications.

TRADE LITERATURE

The Underwriters' Laboratories have just issued a standard covering requirements for electrically heated appliances. Sections of this standard deal with mechanical assembly of appliances, heating elements, wiring, terminals, heat and electrical insulation, switches, cords and plugs, rating, power input, temperatures, and markings. Copies are available from the Underwriters' Laboratories, 109 Leonard Street, New York.

The first issue of the trade publication "Lead," published by the Lead Industries Association, 420 Lexington Ave., New York City, is now being distributed.

"Wire Engineering" is the title of a new house magazine, the first issues of which are being distributed by the John A. Roebling's Sons Co., Trenton, N. J.

Advantages of Mastic woodblock flooring, which is placed directly on concrete, are outlined in a 24-page illustrated bulletin of the Wood-Mo; saic Co., Inc., Louisville, Ky.

The Underwriters' Laboratories has just published a new standard for enclosed switches. The standard covers enclosed switches and air-break switches, but does not cover snap switches. Copies may be obtained from the Underwriters' Laboratories, 109 Leonard St., New York.

A new and smaller model of the Caterpillar, bearing wheel grader, to be used with the Caterpillar Tractor Co., is described in a bulletin of the Caterpillar Tractor Co., Peoria, Ill.

Practical information on cast iron pipe-jointing practice is given in a 32-page illustrated bulletin of the Hydraulic Development Corp., 50 Church St., New York City. Not only does this publication describe the methods and materials used but it also contains specifications and tables applicable to this field of construction.

Buffalo Forge Co., Buffalo, N. Y., has issued a 20-page bulletin on the latest developments in its line of unit heaters. Five different types are described and illustrated.

Specifications of air-cooled air compressors for trailer, skid and tractor mounting are given in a 14-page bulletin of the Davey Compressor Co., Inc., Kent, Ohio.

Accessories and supplies used in welding, including rods, cables, goggles, helmets and gloves, are listed in a 12-page catalog of the Ruston Welding Corporation, 103rd St. and Torrence Ave., Chicago, Ill.

Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa., has issued a large general catalog for 1931-32 containing 1,352 pages and describing many hundreds of pieces of electrical equipment. An illustrated introductory section presents a brief history of the company and its plants and a description of interesting research developments.

Model 52-B, the new 24-cu. yd. diesel shovel-dredge-clamshell-crane developed by the Bucyrus Erie Co., South Milwaukee, Wis., is fully described in a 16-page illustrated bulletin issued by that company.

TRADE NOTES

E. K. Wood Company of Oakland is now marketing "Grade and Trade Marked" Douglas Fir (Oregon Pine) lumber, according to announcements to the trade. The company recently secured a permit from the West Coast Lumbermen's Association under which it is able to furnish Douglas Fir officially grade marked under their supervision. Each piece of lumber will bear the official association stamp, clearly showing the grade furnished.

Schumacher Wall Board Corp. on Jan. 27 declared the regular quarterly dividend of 50¢ a share on the preferred stock, payable February 15 of record February 5. No action was taken toward resumption of dividends on common stock.

Star Roof Company of Sacramento, Ltd., has filed articles of incorporation with Secretary of State Frank C. Jordan. Directors are William A. Ficker of Sacramento and F. A. Adams and Winfield B. Thompson of Los Angeles.

O. H. Carter for several years manager of the Fresno Lumber Company at Fresno has purchased the lumber department of the Wasco Creamery Construction Company at Wasco, Kern County, which he will operate under the name of the Wasco Lumber Company.

J. C. Douglas, manager of the General Electric Refrigerator Agency at 1212 K Street, Sacramento, has been promoted to a new position as agent for the General Electric International in the entire South American field. Douglas is now in New York and will return to Sacramento prior to sailing for the southern continent. Roy E. Culp, former supervisor of the General Electric Company in San Jose will take over the Sacramento agency.

Bauer Lumber Company, Ltd., of Los Angeles, capitalized for \$200,000, has been incorporated. Directors are: A. L. and E. L. Bauer of Huntington Park, and J. J. Geib of San Gabriel.

Technical engineers and architects employed in various municipal departments at Seattle are asking a readjustment of salaries with pay set at the average of other Pacific Coast cities in a petition presented to the city council. The petition, presented by leaders of the group, asks that the council name a committee to study salary schedules and civil service ratings of corresponding employes in other Coast cities.

In eleven years there have been 1494 new homes built in Reno, Nev., while the average value is \$3173. In 1929, there were 53 new homes built, representing a total value of \$138,550, while in that year the average value for each house was \$2614. Two hundred and seven new homes, costing a total of \$811,050, were built in Reno during 1930, while the average value had increased to \$3918.

R. G. Stevenson was elected president of the Seattle Chapter, Western Public Works Contractors' Association, at the annual meeting of that body held last week. Other officers are: Joe Erickson, vice-president; Magnus Espeland, secretary; and Frank N. Badalato, treasurer. Members selected to the executive board were: L. J. Dowell, C. L. Creelman, Joe Erickson, H. L. Goetz and John Ottosen.

INMAN-POLSEN IN BIG LUMBER DEAL

George W. Thatcher, president and treasurer of Inman-Polsen Lumber Co. in Portland, Ore., last Friday confirmed the reported purchase by his company of about 600,000,000 ft. of standing timber on the Siletz river, west of Valsetz, Ore. He declined, in the absence of H. B. Van Duzer, vice-president, to confirm the reported purchase price of about \$1,500,000.

The purchase, with proposed hold-ings, gives the company about 1,400,000,000 feet of timber almost all in a single block, Thatcher said.

Cutting operations would not be started for some time, he said. Construction of a mill had been discussed, but was not definitely planned. The mill would probably be placed at Valsetz, terminus of the Valley & Siletz Railroad.

One of the two tracts in the new block of timber was purchased from Kansas City interests, Thatcher said. He declined to give the names of the previous owners.

ARMY ENGINEERS SET BRIDGE HEARING

U. S. Army Engineers will hold a public hearing on February 17 in the chambers of the San Francisco board of supervisors to hear protests, if any, on the construction of the proposed bridge over San Francisco Bay.

The order for the hearings points out that the plans for the bridge provide for four major spans between Goat Island and San Francisco with minimum horizontal clearances of 1,750 feet, 1,600 feet and two of 1,450 feet, with vertical clearance of 180 feet at high water, for 1,900 feet in the center sections.

It is stated that the plans also call for a clearance of 180 feet in one 700 foot span between Goat Island and Oakland. The plans and specifications are on exhibition at the Army Engineers' office in the Customs House.

HOOVER DAM A "TERRIFIC BLUNDER"

The Muscle Shoals and Hoover dam projects were termed "terrific blunders" by William S. Lee, president of the American Institute of Electrical Engineers, in his opening address before the institute's winter convention in New York last Monday.

In support of his attack on Government ownership, he declared "there is no doubt that Muscle Shoals has been a colossal political and government blunder, but I fear that the next decade will see even greater blunders if some of the projects which are under way or projected are constructed."

"If Muscle Shoals, begun nearly fifteen years ago, is today earning nothing and has no policy, what will occur at Hoover dam? There is a tremendous development started and nobody knows where it is going?"

To enable the Pacific Coast Building Officials' Conference to continue with a full-time secretary and maintain a complete administrative organization, Southern California interests have volunteered to mobilize the manufacturers of building materials in support of the Conference financial program. Matt Bright, sales manager of the Davidson Brick Company of Los Angeles, Earl J. Galbraith, sales manager for the Schumacher Wall-board Corporation and Rex Starrett of the Monolith Portland Cement Co., are prime movers in the financial campaign.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 87 Post Street, San Francisco. (Phone SUtter 1684).

R-3464-S MANUFACTURERS' Agent or salesman caring upon manufacturing plants and power plants in S. F. Territory is wanted as agent for Ohio company manufacturing a line of patent packing with good sales features. Name of company furnished on request.

R-3209-S ENGINEER, mechanical or electrical, not over 30, with 3 to 5 years' experience on hydro-electric plant operation for service in fabricating plants and power plants in S. F. Territory is wanted as agent for Ohio company manufacturing a line of patent packing with good sales features. Name of company furnished on request.

K-322-W-2034-C-S PROFESSOR of printing for school of industrial engineering; must be a college graduate with broad experience in printing. Position will involve research and application to courses in craftsmanship training. Salary \$5,000 a year. Apply by letter with full details of experience, references and photo. Location, East.

K-346-W-2251 - S REFRIGERATION Engineer who has had at least five years' experience in the preparation of specifications and designs, installation and servicing of refrigerating and ice making plants up to 100-ton capacity. Single man about 30 years of age. Four year contract with option of renewal if services are satisfactory. Salary about \$300 a mo. and traveling expenses to and from China. Apply by letter. Headquarters, New York.

W-1411-C-S CONSULTING ENGINEER knowing garage operation, garage equipment, car repair, car utilization and manufacture of parts for repairs, to advise on equipment for service stations and repair shops, on schedule of operation of trucks, busses and passenger cars and to organize maintenance and repair of trucks, busses and passenger cars of various makes. Experience in responsible charge of fleet operation and maintenance of trucks and busses desirable. Contract for one year, renewable. Salary open. One-third to one-half in paper ruble for living expenses, balance in United States bank. Applications only by letter which will be forwarded to Miscow for decision. Location, Russia.

Approval of Senate Bill No. 46, now before the legislature, which provides for additions to the secondary road system of the state, as recommended by the department of public works, has been given by the Sacramento Valley Council of the California State Chamber of Commerce.

A trip to Las Vegas and the Hoover-Boulder Dam is being planned for members of the Orange County Builders' Exchange. The trip will start Friday, February 20, returning the following Sunday. The Southwestern Portland Cement Company will furnish the travelers with dinner Friday evening at the company's plant in Victorville.

Harry D. Jackson, district manager at Stockton for the California Canning Peach Growers' Association, has been appointed a member of the Stockton City Planning Commission by Mayor J. Carl Tremah.

PRIOR RIGHTS OF OWNER ARE CITED BY COURT

Since considerable legal controversies involve the prior rights of property owners, holders of mortgages, and contractors who perform work on the property, the recent higher Court case of Van Epeol Real Estate Co. vs. Sarasota, 129 So. 832, presents unusually valuable legal information, says Leo T. Parker, attorney, in General Building Contractor.

Here it was disclosed that on Nov. 25 a mortgage was executed by the owner of property. The mortgage was recorded April 21. A contractor commenced work on the property on April 12 and completed the job on April 16. The contractor filed a mechanic's lien in the office of the clerk of the Circuit Court on July 7. In other words, the contractor commenced and completed his work after the execution of the mortgage but before it was recorded and without knowledge of the existence of the mortgage. Neither did the holder of the mortgage have notice, either actual or constructive, of the contractor's claim when the mortgage was recorded.

The Court promptly established the right of the parties, as follows:

"The mortgage came into existence and was a valid lien as between the mortgagor and the mortgagee upon its execution and delivery on November 25, several months prior to the time the contractor commenced work. It was of no effect, however, as against creditors or subsequent purchasers for value and without notice, until recorded, which recording occurred on April 21. Meanwhile, and while there was no mortgage of record, the contractor commenced and completed his work, thereby acquiring a statutory lien upon the property as against the owner. Thus the mortgage and the contractor each held valid and effective liens upon the property so far as the interest of the mortgagor-owner was concerned, the lien of the mortgagor dating from November 25, the date of the delivery of the mortgage, and the statutory lien of the contractor dating from April 12, the date of the commencement of the work, so that, as against the owner, the lien of the mortgage was first in point of time. . . . On that date (April 21) the mortgage was recorded, and thereby became first in time of recording as against the mechanic's lien, notice of which was not recorded until July 7."

It is important to know that if, after the contractor had completed his work and before he had filed notice of his lien, an innocent purchaser had acquired a valid deed to the property, such latter purchaser would prevail over the mechanic's lien because the contractor, by failing to record his notice of lien, assumes the hazard of the intervening rights of those who deal with the property in ignorance of the mechanic's unrecorded claim.

Plans for developing a system whereby the home owner or prospective home purchaser may grade the property of construction of the house in which he lives were outlined by one C. Davis, secretary of the Dayton Chapter of the Associated General Contractors and of the Dayton Builders' Exchange before the Dayton Chapter of the American Institute of Architects and a committee of architects was appointed to carry on further work on the plan. Mr. Davis also explained the proposal to the Dayton Building and Loan Association. It is expected that the action of these associations will be taken soon for carrying out the plan.

BUILDING HEIGHT ORDINANCE PASSED

The San Francisco Board of Supervisors has passed to print an ordinance limiting to a height of forty feet structures hereafter erected in the territory bounded by Fillmore street on the west, Bay street on the south, Buchanan street on the east and the Marina Boulevard on the north and northeast.

The proposed ordinance is published herewith:

Section 1. No building, except as hereinafter provided, shall be erected in the City and County of San Francisco to a height greater than forty (40) feet, within the territory bounded by: Fillmore Street on the west, Bay Street on the south, Buchanan Street on the east, and by the Marina Boulevard on the north, and northeast.

Section 2. No addition to or alteration or improvement of any building within the above described district shall be made which shall increase the height of any building as limited by this ordinance.

Section 3. No limitation of the height of buildings in the City and County of San Francisco, as provided by this ordinance, shall apply to public buildings, churches, schools, steeples, towers, domes, cupolas, belfries (not used for human occupancy), nor to chimneys, skylights, ventilators, pent houses, water tanks, flag staffs, railings, weather vanes, nor to other similar structures such as are usually erected or maintained above the roof line of buildings.

Section 4. The method of determining the height of buildings, for the purpose of this ordinance, shall be the same as provided in Ordinance No. 1008 (New Series), and the provisions of Section 78 shall apply within said territory.

Section 5. No building permit shall be issued by the Board of Public Works or the erection or alteration of any building or structure contrary to the provisions of this ordinance, and any permit so issued shall be void.

Section 6. Any person, firm or corporation violating any provisions of the ordinance shall be guilty of a misdemeanor, and upon conviction thereof shall be punishable by a fine not exceeding \$500.00 or by imprisonment for a term of not exceeding six months or by both such fine and imprisonment. Such persons, firm or corporation shall be deemed guilty of a separate offense for each and every day during any portion of which any violation of this ordinance is committed, continued or permitted by such persons, firm or corporation, as hereinafter provided.

Section 7. This ordinance shall take effect immediately.

Orders received by the General Electric Company during the year 1930 amounted to \$341,820,312, compared with \$415,802,519 for 1929, a decrease of 23 per cent. President Gerard Swope has announced. Orders for the final quarter of 1930 amounted to \$74,168,450, compared with \$108,398,049 for the last quarter of 1929, a decrease of 32 per cent. As a result of the transfer of radio set and tube business, outlined in the company's 1929 annual report, orders received in 1930 do not include radio sets and tubes, except orders received for the new General Electric radios introduced in the latter part of the year.

WHO IS OWNER? COURT DEFINES

Many legal controversies have arisen over the legal meaning of the word "owner" in mechanic's lien laws. Usually, an owner is the party in legal possession of the property when the construction contract is made, says Leo T. Parker, attorney, in General Building Contractor.

For illustration, in Freidenbloom vs. Pecos Co., 290 Pac. 737, a person named Riddle agreed to purchase a lot and pay to the seller a stipulated amount each month. He erected a filling station on the lot and later defaulted in paying for the lot, the construction work, and the building materials including rock, sand, and cement. The materialman filed a mechanic's lien and the owner of the lot contested its validity. However, the Court held the lien valid, saying:

"We used the word 'owner' in the same sense as it is used in our mechanic's lien statute. It does not necessarily refer to the holder of the legal title to the property improved. It may have reference to one whose interest is less than a fee-simple estate, such as a lessee or a conditional vendee in possession. It means the party in interest who is the source of authority for the improvement. One who deals with such a party directly is contracting with the 'owner' and is not a sub-contractor, but is an 'original contractor.'"

Also in Gray vs. Pumice Stone Co., 110 P. 603, it was held that one who deals directly with the owner of the property is an original contractor.

GRADED LUMBER PRODUCTS WILL BE MARKETED BY HOGAN

The T. P. Hogan Lumber Company of Oakland announces that they will specialize in Coos Bay Lumber company's products. Under this arrangement they will be able to serve the construction industry with lumber products which are graded and trade marked under the supervision of the West Coast Lumbermen's Association, thus affording to discriminating architects and contractors kiln dried dimension lumber.

"Dependability, quality and conformity to standardized rules is an asset in any marketable product, and we can assure you that the Coos Bay Lumber Company's entire organization and huge resources will emphasize these desirable qualities," says T. P. Hogan, Jr., president of the East Bay firm.

"The Coos Bay Lumber Company operates and owns the largest single sawmill in the world, its source of supply being drawn from its 30,000-acre tract of standing timber, estimated to contain over 4,500,000,000 feet of merchantable timber. Each day this company produces 650,000 board feet of well graded and well manufactured lumber. The company also maintains at Bay Point, California, a distributing yard, where about 20,000,000 board feet of lumber is always available for immediate shipment."

The T. P. Hogan Lumber Company maintains offices, mill, yards and docks at Second and Alice Streets, Oakland, and prides itself on prompt deliveries, due to the fact that its plant is served by motor truck, rail and water.

Readers are referred to the advertisement of the Hogan Lumber Company on page 3 of this issue.

LIEN EXTENSION CITED BY COURT

The law is well settled that, after completing a building, a contractor or materialman who fails to file a mechanic's lien within the period specified by statute, may automatically extend this period by showing that in good faith he performed work or delivered materials on the grounds after the original date of completion. However, it is important to know that testimony of this fact may be positive and convincing, otherwise the Court will refuse to extend the lien, says Leo T. Parker, attorney at law in the General Building Contractor.

For instance, in Weinberger vs. Goldstein, 151 Atl. 297, it was disclosed that various contractors and materialmen failed to file liens within four months after their work was finished. Later suit was filed to validate the liens and some testimony was introduced to prove that labor and material had been furnished at a later date. However, the evidence was not positive and the Court held the claimants not entitled to liens, saying:

"At best from the stipulation of the lien claimants they show no substantial amount of labor or material within the four months before the filing of the respective liens, and in some of the cases they show a deliberate attempt to revive a dead lien claim by a fictitious or nominal performance now claimed to have been under the original contract. Suspicion seems to attach to the last time all these claims as to the last time of performance. . . The testimony of the various lien claimants is wholly unconvincing, and I am of the opinion from the testimony submitted that there was merely a pretense at furnishing materials and labor within the required four months' period."

VERBAL CONTRACT VOID, COURT RULES

Few persons realize that a verbal agreement to sell property ordinarily is void and unenforceable, unless one of the contracting parties proceeds to fulfill his obligations, says Leo T. Parker, attorney-at-law in the General Building Contractor.

For example, in Forbes, 282 Pac. 528, it was disclosed that an employee of a corporation made a verbal contract by the terms of which he agreed to sell the company's real estate. Later the corporation filed suit to rescind the agreement on the contention that the contract was void because it was not in writing. It is important to know that the higher Court held the oral contract void, stating the following important law:

"It was necessary to prove

either that the contract was in writing or that it had been partially performed."

The case is reduced to an action to enforce a parol contract to convey real estate. Such an action is maintainable only where there has been a part performance sufficient to take the agreement out of the statute of frauds."

The Seventh Annual Del Monte Iron and Steel Conference of the California State Chamber of Commerce will be held at Del Monte on February 12, 13 and 14. New standard practices will be considered as well as safety standards to reduce rates of compensation insurance, improve methods of merchandising, and the importance of ethics in business. It is expected that 200 California exhibitors will be in attendance, representing the principal iron and steel industries throughout the State.

BILL AIMS TO PREVENT RUSSIAN LUMBER DUMPING

A bill has been introduced in the U. S. Senate (S. 5370) to prohibit the importation of products of convict, forced or indentured labor. The bill is aimed to prevent dumping of Russian lumber in this country. It is sponsored by Senator Frederick M. Steiwer of Oregon and endorsed by the West Coast Lumbermen's Association.

Forced labor is defined in Sec. 2 of the bill as follows: "Sec. 2. 'Forced labor,' as herein used, shall mean all work or service which is exacted from any person under the menace of any penalty for its nonperformance and in which the worker does not offer himself voluntarily, or from which he is not permitted voluntarily to withdraw. Labor, in the mining, production, transportation, handling, loading or unloading of goods, wares, or any country in with the general governmental labor policy or the prevailing labor practice is forced labor, as herein defined, is for the purpose of this Act, forced labor."

Robert S. Odell, president, Pacific States Savings and Loan Company, and has been a member of the Executive Committee of the California Building-Loan League, according to Harry S. Wanzer, head of the organization. While on an European trip recently, Mr. Odell made an extensive study of building and loan societies in England, which have flourished there for more than 150 years. He heads the largest institution of its kind in the United States with administrative offices in San Francisco and branches in leading cities throughout the state. Other members of the Executive Committee include: C. H. Wade, Los Angeles; H. S. Wanzer, Sacramento; S. M. Anderson, Inglewood; P. A. Oliver, San Mateo; Harold A. Noble, Stockton, and J. M. Abbott, Santa Barbara.

The American Institute of Electrical Engineers has issued a new standard covering switchboards and switching equipment for power and light, the standard having been approved by the Board of Directors of the A.I.E.E. on October 15, 1930. The standard covers switchboards and switching equipment not specifically covered elsewhere in the standards of the A.I.E.E. as apparatus, but does not apply to industrial control equipment or communication switchboards and switching equipment. The standard is divided into the following sections: service conditions, rating, temperature limitations, name plates. Copies of the standard may be secured from the American Standards Association, 29 West 39th St., New York City, for 30 cents per copy.

U. S. Bureau of Reclamation is rushing plans for the erection of cottages in Boulder City to house workers on the Hoover-Boulder Dam project. Bids have been called for the storage tanks and pumps will be advertised soon for material for construction of the water distribution system. The city will cost \$2,000,000.

The Oakland city council has accepted amendments to the meat ordinance submitted by Commissioner Frank Colburn to permit meat markets to be installed in general open markets provided that the meat is enclosed in sanitary refrigerated glass cases approved by the chief meat inspector.

The index number of wholesale prices computed by the Bureau of Labor Statistics of the United States Department of Labor shows a further recession in December. This index number, which includes 550 price quotations weighted according to the importance of each article and based on prices in 1926 as 100.0, declined from 80.4 in November to 78.4 in December, a decrease of 2½ per cent. The purchasing power of the 1926 dollar in December was \$1.276. Building materials were downward, as lumber, brick, cement, paint materials, and certain other building materials declined in price.

The most expensive lumber on the market today, says the U. S. Forest Service, is the wood of the yew tree. Archery experts agree with Robin Hood of Sherwood Forest and with the English bowmen who defeated the armored chivalry of France at Crecy and Poitiers over 600 years ago, that the yew furnishes the most ideal material for bows. Basing estimates on the cost of a yew 2 by 2 inches thick and 6 feet long at \$10, the value per thousand board feet would be \$5,000, or fifty times the price of California's choicest snags pine lumber.

Western Wood Products Co., Ltd., of San Francisco, has been reported to have a capital stock of \$25,000. Directors are: Charles R. Neighbors, J. O. Crabb and Henry Weiss.

Announcement is made of a sale of a 1250-hp. "Simplex" synchronous motor and a magnetic control to the Marquette Cement Company. This motor will drive a tube mill and will be installed at their plant at Cape Girardeau, Mo. This motor is a new idea in synchronous motors recently developed by Westinghouse for applications requiring high torque and low starting inrush. The motor's starting performance—torque and inrush—is very similar to that obtained on wound rotor induction motors. However, after the motor is synchronized, it operates as a standard salient pole synchronous motor with the inherent high efficiency of this type of motor.

A resolution urging that highway surveys relative to extension be based upon the need for development of various sections of the state, as well as upon traffic count, has been presented in the senate by Senator R. R. Ingels of Mendocino County.

Ingels would have a study of the need for good highways to develop the state agriculturally and industrially, as well as to aid one of the most new highway is contemplated.

Scenic routes also would be given consideration along with traffic needs in his plan.

A. R. Gallway, Jr., Sacramento real estate operator, has been elected president of the State Reclamation Board. Dan McCormick, Rio Vista, was elected vice president and Carlton Johnson, president of a North Sacramento land concern, was made secretary. John Bronner, Sacramento, is the newly-appointed assistant secretary, succeeding Charles Merry, Sacramento, former newspaper man. The board also re-elected Maj. A. M. Earton as chief engineer and Stephen W. Downey of Sacramento, attorney.

The transportation bureau of the Amtorg Trading Corporation has announced that it is organizing a group of about 150 railroad men to be sent to Russia to assist in modernizing the Russian railway system. The group, which will comprise engineers, yardmasters, switchmen and signalmen, will be under contract for one year.

ARCHITECTURAL CONTROL URGED TO PREVENT "UGLY" BUILDINGS

Marked advances in city and regional planning work were made throughout the United States during 1930, says a summary of the year's progress in this field by the Committee on City and Regional Planning of the American Institute of Architects, of which Charles H. Cheney of Los Angeles is chairman.

"While few new plans that might be called great were completed," the Committee declares, "much was accomplished to carry out existing plans, set up new planning agencies, secure needed public lands, parks, etc., and above all, to establish architectural control and roadside improvement."

"The hope of the country must lie in the more than 800 city and regional planning commissions that now exist. To date there are 23 regional commissions, according to the United States Department of Commerce estimate.

"During the year 94 new cities and counties reported passing zoning ordinances, the greatest number being in New York, New Jersey and California. This brings the total number of cities comprehensively or partially zoned to over 900. The U. S. Chamber of Commerce finds that New York State appears to be in the lead, with 142 cities zoned, and Massachusetts first for city plans, having 94 city schemes completed.

"With the new census showing approximately 69,000,000 people now living in cities and towns of over 2,500 inhabitants in this country, unemployment relief is largely a city and county problem. Action steps have therefore been taken by many far-sighted leaders and commissions to speed up programs or readjust them to increase public work during the slack period until the country again gets back to a normal business condition.

"Mayors and city and county officials generally have readjusted their budgets and taken on as many extra men as possible for public improvements, parks, and clean up work. Where public funds are not available, huge amounts are being raised thru private subscription, and turned over to the mayor or park board for employment of men on park work as in New York and elsewhere.

"Good environment is the aim and desire of practically all families in America. It is demanded not only for homes but for working conditions. In many high standards of living have as the key factor. Today real joy of living and pursuit of happiness are demanded with ever louder voice in all parts of the country.

"People can no longer be satisfied with the careless ugliness, banality, and off-color appearance of most of our communities, cities, and regions. There is a rising dissatisfaction, protest, and contempt for city plans and city officials that omit sure provision for the essential qualities of beauty, charm and restfulness. The craving for attractiveness of environment lies deep in all of us.

"Production of good environment. The percentage of real architecture and good environment being constructed here is the aim of all city planners, architects, builders, realtors, etc. Their problem is to shut off the sluice of ugly bad buildings. Consistent machinery is essential to stop bad design and bad color before they get started, to ensure reasonably good architectural design before a building permit is issued.

"To accomplish this a new form of regulation called 'architectural control' will be established. It is ef-

fectuated by setting up an architectural board to scrutinize and pass upon every design with the same care that they are now passed upon for safety, under building codes, by building inspectors. Until such a protective barrier is set up, all city, county, or regional plans, even the best of them, are most likely to be spoiled in the construction stage.

"Watch your architecture" is thus becoming the slogan of planning agencies.

Structures unfortunately do not seem to have materially increased during 1930. No reports have come in to show that building inspectors are having better than the ten to fifteen per cent number of plans filed with them, as noted last year, that will produce good buildings of permanent neighborhood value.

"In other words we are still getting nearly ninety per cent in number of buildings (almost everywhere in the country) so ugly and off color, so badly arranged and inappropriately placed on account of bad street planning, lack of proper zoning, etc., that they form a liability instead of an asset, almost from the day they are completed. This, the most serious and probably greatest economic loss of our time, should be the first problem to solve in the coming decade.

"In 1929 \$5,000,000,000 in value of new buildings went up, and sixty per cent of that amount, or about \$3,000,000,000 in 1930. It is time investors and public awoke to the fact that nearly ninety per cent in number of these buildings of 1930, over \$2,000,000,000 in value, belong to that bad building class which have made our cities so intolerably ugly. There is therefore some consolation for the falling off in volume of building in 1930. Some way must be found to correct the situation before the volume of building materially increases again.

"Without benefit of clergy," as the old saying goes, or rather without the help of a trained architect, or any other competent designer, these buildings have been put up, (and are continuing to be put up) by the careless and thoughtless of the country. And the worst of it is that the much greater billy and loss must be suffered willily-nigh by owners of property unfortunate enough to be in the immediate neighborhood into which these bad buildings intrude themselves.

"That is why architectural control is becoming such an important question in the country. A careful check-up on the plans of all buildings to see that they maintain 'reasonable decency of design' and appropriateness to their surroundings would in a few years reverse these very unfavorable percentages.

Ordinance No. 278 providing an Electrical Code and creating the office of Electrical inspector, was adopted by the Turlock city trustees Jan. 20. Another ordinance, No. 280, adopted by reference, the Building Code of 1930, was drawn up by the Pacific Coast Building Officials' Conference, was introduced for action at the first February council meeting. The new measure repeals all former building ordinances except No. 273, which provides for the compensation of the building inspector.

Airports and landing fields in the United States numbered 1782 at the close of 1930, as reported by the aeronautics branch of the department of commerce. An increase of 125 took place between July 15 and Dec. 31.

BUSINESS OPPORTUNITIES

Names and addresses of persons or firms concerned in the following opportunities will be furnished on request to Business Opportunity Department, Daily Pacific Builder, 547 Mission St., San Francisco or Phone Garfield 3744:

20791—Marble. San Francisco. French exporter of marble, seeks an agent for San Francisco.

20799—Crockerly and Chinaware. Laredo, Texas Wholesale commission company would like to communicate with importers of crockery and chinaware from Japan.

20802—Machinery. Tel-Aviv, Palestine. Firm wishes to be put in touch with manufacturers of machines for assorting and wrapping oranges.

20805—Contractors and Builders' Materials. Wabash, Indiana. Party inquires for list of exporters; or exporters' agents, handling contractors' and builders' materials.

T. M. Quinlan, general sales manager, Mayfair Range Oil Burner Co., 339 South Huntington Ave., Boston, Mass., manufacturing oil burners, desires to make contact in San Francisco with distributor, representative or sales organization, calling on jobbers, department and retail stores.

Chas. M. Best, 211 Olive St., Modesto, Calif., is interested in contracting with firms in San Francisco who desire representation in the San Joaquin Valley.

Walter Wilhelm of the Wilhelm Moss Co., Inc., Gowanda, N. Y., desires resident salesman in San Francisco section to handle well known side line on commission, to upholstered furniture manufacturers.

Frank Thomas, president, The Sank Cedar Co., Youngstown, Ohio, manufacturing cedar lining for closets is desirous of establishing a distributing agency in the San Francisco Bay District.

H. J. Avers of Howard J. Avers & Co., 161 Howard Ave., Boston, Mass., sales representatives, desires to contact with local manufacturers with a view to representation.

MISCELLANEOUS SUPPLIES AND MATERIALS

PORTLAND, Ore.—Until February 4, 1931 A M., bids will be received by Multnomah County Commissioners, to furnish one Auto Clave Sterilizer, complete, size 20x18, with pressure recording gauge ready to install, type Castile, American or equal. Certified check or bond 10% payable to Bd. of County Commissioners required with bid. Specifications on file in office of county clerk.

SAN FRANCISCO.—California Metal Enameling Co., Los Angeles, at \$1,876.74 awarded contract by U. S. Forest Service, to furnish and deliver 2,176 metal porcelain enamel road and trail direction and miscellaneous signs.

Following is a complete list of the bidders:

California Metal Enameling Co., Los Angeles, \$1,876.74; 45 days.

Baltimore Enameling and Novelty Co., Baltimore, Md., \$1,769.68; 120 days.

Payne-Mahoney, Oakland, \$2,137.50; 45 days.

Pioneer Enamelled Steel Prod. Co., Seattle, \$2,202.89; 45 days.

"While low bidders time condition was not met.

Building News Section

APARTMENTS

Plans Being Completed.

APARTMENTS Cost, \$7000
OAKLAND, Alameda Co., Cal. NE
Glenview and Woodruff Streets.
One-story frame and stucco duplex (2
4-room apartments).

Owner and Builders—O. E. Jensen,
Premises.

Plans by Harry K. Jensen, 354 Hobart
St., Oakland.

Sub-bids will be taken within a few
days. Hardwood flooring, shingle roof,
stucco interior and exterior, gas fur-
nace, electric refrigeration.

Plans Being Prepared

APARTMENTS Cost, \$40,000
OAKLAND, Alameda Co., Cal. Mer-
ritt and Prospect Sts.

Three-story wood frame apartments
with concrete basement (12 2-rm
and 1-32room apts.)

Owner—A. Visser, 6008 Orchard St.,
El Cerrito.

Plans by L. F. Hyde, 372 Hanover St.,
Oakland.

Sub-Figures Being Taken.

APARTMENTS Cost, \$125,000
SANTA MONICA, Los Angeles Co.,
Cal. Fourth and Broadway.

Four-story Class B apartments.
Owner and Builder—D. S. McEwan.
Architect—Arthur S. Barnes.

Will contain five stores and thirty
apartments, will be equipped with
water softening plant.

Contractor Taking Sub-Figures.

APARTMENTS Cost, \$200,000
LOS ANGELES, Los Angeles Co., Cal.
SW Beverly Blvd. and Gramercy
Place.

Seven-story, basement and sub-basement
class A apartment building.
Owner—Stanley Gawecki.

Architect—Sedgley & Cavanaugh, 816
Architects' Bldg., Los Angeles.

Contractor—Michele Const. Co., 816
Architects' Bldg., Los Angeles.
The building will be 45x118-ft. and
will contain 58 apartments, lobby,
storage rooms, and accommodations
in the basement for 50 cars. It will
be reinforced concrete construction.

Sub-Figures Being Taken.

APARTMENTS Cost, \$—
LOS ANGELES, Cal. First Street and
Gramercy Place.

Six-story and basement class A apt.
building (59x122-ft.)

Owner—Walter R. Sant.
Architect—Leonard L. Jones, 2504 W
7th St., Los Angeles.

Contractor—General Engineering Ser-
vice, 112 N Main St., Los Angeles.

Sub-Figures Being Taken.

APARTMENTS Cost, \$100,000
LOS ANGELES, Los Angeles Co., Cal.
No 527 South Hobart Blvd.

Five-story and basement Class C
apartment building.

Owner—Schechter Isenberg, 1107
North Evergreen St., Los Angeles
Architect—Max Maltzman, 704 Union
Bank Bldg., Los Angeles.

Sub-Figures Being Taken.

APARTMENTS Cost, \$250,000
LOS ANGELES, Los Angeles Co., Cal.
Hayworth Ave. N of Fountain
Avenue.

Two four-story and basement apart-
ment buildings.

Owner—J. J. Rees.

Architect—Not Given.

Contractor—Fred Sward, 508 Delta
Bldg., Los Angeles.

Sub-bids are wanted for the follow-
ing: Steam heating, brick construc-
tion, plaster exterior, tile and com-
position roofing, composition, pine and
carpet flooring, wall beds, steel
sash, incinerator, etc.

Plans Being Prepared.

APARTMENTS Cost, \$135,000
SANTA MONICA, Los Angeles Co.,
Cal. Fourth Street and Broadway

Four-story class B apartments.
Owner—D. S. McEwan, 318 Marine
Ocean Park, Santa Monica.

Architect—Arthur S. Barnes Co., 601
Title Insurance Bldg., Santa Mon-
ica.

Plans Being Completed.

APARTMENTS Cost, \$110,000
SEATTLE, Wash. Second Ave. West
and West Republican St.

Three-story and basement masonry
apartments; 35 2- and 3-room
apts. with 25-car private garage.

Owner—Chris Sandland.
Architect—E. Dudley Stuart, Walker
Bldg., Seattle.

Sub-Figures Being Taken.

DUPLEX Cost, \$7000
OAKLAND, Alameda Co., Cal. NE
Glenview and Woodruff Sts.

One-story frame and stucco duplex (2
4-room apts.)

Owner—O. E. Jensen, Premises
Plans by Harry K. Jensen, 354 Ho-
bart St., Oakland.

Contractor—O. E. Jensen.

Preparing Preliminary Plans

APARTMENTS Cost, \$16,000
SAN FRANCISCO

Two-story frame and stucco residence
and apartments (6 room residence
and two 3-room apts.)

Owner—Withheld.
Architect—Powers & Ahnden, 605 Mar-
ket St., San Francisco.

BONDS

LAKEPORT, Lake Co., Cal.—Until
February 9, bids will be received by
Fred H. Merritt, county clerk, for pur-
chase of \$8,000 bond issue of Sulphur

SKILSAW Portable Electric Hand
Saws (4 models).

SKILSAW Portable Electric Sander

SKILSAW Radial Arm Attach-
ments.

SYNTRON Portable Electric Ham-
mers (4 models, motor-
less).

MALL Flexible Shaft Machines (50
models).

Electric Drills, Grinders, Buffers,
Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric
Tools.

1246 Mission St. Underhill
San Francisco 7662
SALES . SERVICE . RENTALS

Bank School District; proceeds of
sale to finance erection of a new
school.

SANTA MARIA, Santa Barbara Co.,
Cal.—Santa Maria City School District
\$100,000 bond issue, voted on Novem-
ber 12, has been validated by superior
court and funds will be available early
in February for construction work to
be financed therefrom. The district
proposes the erection of a new gram-
mar school building and additions and
repairs to existing schools in Santa
Maria. Louis N. Crawford, 8 Gibson-
Drexel Bldg., Santa Maria, architect

CHURCHES

Preparing Working Drawings.

CHURCH Cost, \$22,000
HAYWARD, Alameda Co., Cal. Foot-
hill Blvd. and A Street.

One-story and basement brick and
cast stone church.

Owner—First Congregational Church,
Premises.

Architect—E. P. Whitman, 192 Main
St., Hayward.

Present church on site will probably
be wrecked. Financing arrangements
are now being made.

Plans Completed.

CHURCH Cost, \$65,000
PITTSBURGH, Contra Costa Co., Cal.
NW Black Diamond and W-Eighth
Streets

Two-story reinforced concrete church
with steel roof trusses (120x12 ft.)

Owner—Roman Catholic Archbishop of
San Francisco, 1100 Franklin St.,
San Francisco, a Corp. Sole, (St.
Peter Martyr Parish), Rev. Louis
A. Nasselli, Rector.

Architect—Arnold Constable, 580 Mar-
ket St., San Francisco.

Will have full basement for Parish
Hall and auditorium, to seat 700. Will
have stucco finish, tile roof and be of
Italian Romanesque style of architec-
ture.

Planned.

CHURCH Cost, \$—
SAN PABLO, Contra Costa Co., Cal.
Church and Market Streets.

Church (Mission style).

Owner—St. Pauls Catholic Church.

Rev. Evisio Tozzi, San Pablo.

Architect—Not Selected.

The site of the new church is near
the present St. Pauls church and upon
its completion the old church will be
placed in repair and used for a hall.

Plans To Be Prepared.

CHURCH Cost, \$25,000
SACRAMENTO, Sacramento Co., Cal.

NW Twenty-fourth and O Sts.

Church (site 50x150 feet).

Owner—Church of Jesus Christ of
Latter Day Saints, Sacramento.

Architect—Not Yet Selected.

The deal for the site was closed by
Artz, Cook & Drew, Inc., real estate
operators, 813 J St., Sacramento.

FACTORIES AND WARE- HOUSES

AUBURN, Placer Co., Cal.—Auburn
Chemical Lime Co., Ltd., recently or-
ganized with a capital stock of \$200,
000, will establish a plant near Rat-
lesnake Ear to work a deposit of ap-

roximately 11,000,000 tons of lime
ck. Hugh T. Dyer of Auburn is
resident of the company and Chas.
emper of Auburn, is secretary.

wner Taking Bids.
ACKING HOUSE Cost, \$10,000
ILROY, Santa Clara Co., Cal.
ne-story wood packing house (55x
200 ft.; gravel roof).
wner—Aiello Bros., North San Pedro
St., San Jose.
rchitect—Charles McKenzie, Twohy
Bldg., San Jose.
Contract to be let within one week.

contract Awarded.
ACTORY Cost, \$11,000
AN FRANCISCO. E Tenth St. N
Folsom St.
ne-story Class C brick factory.

wner—G. W. Price Pump & Engine
Co., 1350 Folsom St., San Francisco
rchitect—E. A. Neumarkel, 340
Kearny St., San Francisco.
contractor—Chas. W. Koenig, San
Francisco.

ub-Contracts Awarded.
DITION Cost, \$—
ERKELEY, Alameda Co., Cal. 2029
Channing Way.
ne-story and basement concrete and
brick addition to bakery (structural
steel, steel sash, etc.)

wner—Langendorf United Bakeries,
Inc., 2029 Channing Way, Berke-
ley.
ngineer—Ellison & Russell, Pacific
Bldg., San Francisco.

contractor—Barrett & Hilp, 918 Har-
rison St., San Francisco.
umbering—W. H. Picard, Inc., 5356
College Ave., Oakland.
lectric Wiring—Spencer Electric Co.,
354 Hobart St., Oakland.

As previously reported, structural
work awarded to Industrial Steel Prod-
cts Co., 59th and Doyle Sts., Oak-
land; excavation to Ariss Knapp Co.,
51 1st St., Oakland; lumber to Sun-
set Lumber Co., 400 High St., Oak-
land; brick work to Victor Devight,
323 Milvia St., Oakland.

Plans Being Figured—Bids Close Feb.
10, 415 P. M.
HOP BLDG. Cost, \$30,000
AKLAND, Alameda Co., Cal. Fifty-
second Ave. and E-Tenth St.
Two-story reinforced concrete main-
tenance shop building
Owner—City of Oakland School Dist.
Plans by Building and Grounds De-
partment, Oakland.

Contract Awarded
SERVICE BLDGS. Cost, \$40,000
REDWOOD CITY, San Mateo Co., Cal.
Group of service buildings (wood frame
and tile walls).
Owner—Pacific Gas & Electric Co.,
245 Market St., San Francisco.
Plans by Eng. Dept. of Owner.
Contractor—Clinton Stephenson Con-
struction Co., Monadnock Bldg.,
San Francisco.
Group includes warehouse, garage,
service departments, superintendent's
offices, etc.

Plans Being Prepared.
WAREHOUSE Cost, \$—
OAKLAND, Alameda Co., Cal. On
Western Waterfront (Outer Har-
bor Terminal).
Steel and concrete warehouse (100x
518 feet).

Owner—City of Oakland (Port Com-
mission), 424 Oakland Bank Bldg.,
Oakland.
Architect—Engineering Dept. of City
Port Commission.
A portion of this structure will be
leased to Rosenberg Bros. & Co, fruit
packers.

General Contract Awarded
LOFT BLDG. Cost, \$27,600
(general cont. only).
SAN FRANCISCO Stevenson Street
near Duboce.
Two-story steel frame and concrete
loft building.
Owner—Rekins Van and Storage Co.,
2690 Geary St.
Architect—F. Eugene Barton, Crocker
Building.

Steel sash, steel rolling doors, com-
position roofing, skylights, etc.
Contractor—Macdonald & Kahn, Fi-
nancial Center Bldg.
Plumbing and electric included in
general contract.
Awards on other portions of the
work will be made shortly.

Electric Contract Awarded
PLANT Cost, \$10,000
SUNAVILLE, Lassen Co., Cal.
Group of corrugated iron buildings for
distribution plant.
Owner—Associated Oil Co., 79 New
Montgomery St., San Francisco.
Plans by Eng. Dept. of Owner.
Contractor—Dyer Const. Co., Ray
Bldg., Oakland.
ELECTRIC—Kerr & Clifford, 3525 E.
14th St., Oakland

Plans Completed.
SHEDS, ETC. Cost, \$—
RENO, Washoe Co., Nevada.
Fireproof freight sheds and two-story
freight office.
Owner—Southern Pacific R. R., 65
Market St., San Francisco.
Plans by Engineering Dept. of owner.
The office will be a two-story struc-
ture and freight house, will be 228 feet
long and forty feet wide. Beyond the
freight house will be a sixteen-foot
concrete unloading platform 380 feet
long. This latter will be covered by
an umbrella-type roof.

Construction Postponed Indefinitely.
WAREHOUSE Cost, —
WATSONVILLE, Santa Cruz Co., Cal.
Beach Road.
Warehouse and distributing plant.
Owner—Western Oil & Refining Co.,
(Jos. L. Castor, Pacific Coast rep-
resentative, 555 Berry St., S. F.)
Architect—Eng. Dept. of Owner, 555
Berry St., San Francisco.

Bids Close February 14.
PACKING PLANT Cost, \$—
SANTA PAULA, Ventura Co., Cal.
Reinforced concrete packing plant
(100x250 feet).
Owner—Mutual Citrus Association.
Architect—Roy C. Wilson, 112 S. Mill
St., Santa Paula.

Preparing Working Drawings.
POULTRY BLDG. Cost, \$75,000
SACRAMENTO, Sacramento Co., Cal.
State Fair Grounds.
One-story brick poultry building.
Owner—State of California.
Architect—Geo. McDougall, State Ar-
chitect, Public Works Bldg., Sacra-
mento.
Bids will be advertised for in about
two weeks.

January 24, 1931
Preparing Working Drawings.
LIVESTOCK BLDG. Cost, \$125,000
SACRAMENTO, Sacramento Co., Cal.
State Fair Grounds.
One-story brick livestock building.
Owner—State of California.
Architect—Geo. McDougall, State Ar-
chitect, Public Works Bldg., Sacra-
mento.
Bids will be advertised for in about
two weeks.

Segregated Bids Being Taken.
RECONSTRUCTION. Cost, \$45,000
SAN FRANCISCO. No. 700-758 York
Street.
Reconstruction of portions of plant.
Owner—Trevor & Co., 71 Sutter St.,
San Francisco.
Architect—Not given
Segregated bids are being taken on
all portions of the work including the
sprinkler system.

To Be Done By Day's Work.
SHELTERS Cost, \$12,000 each
SAN FRANCISCO. Fifth St., bet.
King and Berry Sts.
Two one-story steel frame shelters.
Owner—Southern Pacific R. Co.,
65 Market St., San Francisco.
Architect—Eng. Dept. of Owner, J.
A. Christie, 65 Market St., San
Francisco.

Sub-Bids To Be Taken In One Week.
DAIRY Cost approx. \$10,000
SAN MATEO, San Mateo Co., Calif.
One-story and mezzanine floor frame
and stucco dairy bldg. (40x70-ft.;
concrete floor, composition roof).
Owner—Jersey Dairy Farm, 833 South
Idaho, San Mateo.
Plans by D. S. Konkowitz, 424 Mont-
erey Blvd., San Francisco.
Contractor—Castle Bldg. Co., 830 Mar-
ket St., San Francisco.

Additional Sub-Contracts Awarded.
ADDITION Cost, \$12,000
BERKELEY, Alameda Co., Cal. 2029
Channing Way.
One-story and basement concrete and
brick addition to bakery (structu-
ral steel, steel sash, etc.)

Owner—Langendorf United Bakeries,
Inc., 2029 Channing Way, Berke-
ley.
Engineer—Ellison and Russell, Pacific
Bldg., San Francisco.
Contractor—Barrett & Hilp, 918 Har-
rison St., San Francisco.
Sheet Metal—Yager Sheet Metal W'ks
3521 Chestnut St., Oakland.

Roofing—Western Roofing Co., 24th &
Poplar St., Oakland.
As previously reported, structural
steel awarded to Industrial Steel Prod.
Co., 59th and Doyle Sts., Oakland; ex-
cavation to Ariss Knapp Co., 501 41st
St., Oakland; lumber to Sunset Lbr.
Co., 400 High St., Oakland; brick work
to Victor Devight, 1823 Milvia Street,
Oakland.

Additional Sub-Contracts Awarded.
HANGAR, ETC. Cost, \$75,000
ALAMEDA, Alameda Co., Cal. Web-
ster Street.
All-steel hangar and administration
building (160x310-ft.)
Owner—San Francisco Bay Air-drome
(R. U. St. John, field manager).
Contractor—Lindgren and Swinerton,
Inc., 225 Bush St., San Francisco.
Roof Sheathing—Detroit Steel Prod-
ucts Co., Hunter-Dunn Bldg., San
Francisco.

Roofing—J. W. Bender Roofing Co.,
18th and Bryant Sts., San Fran-
cisco.
Steel Sash, Glass, Glazing and Steel
Doors—Herrick Iron Works, 18th
and Campbell Sts., Oakland.
Other awards reported Jan. 13, 1931.

GARAGES AND SERVICE STATIONS

Plans Being Prepared.
SERVICE BLDG. Cost, \$50,000
VALLEJO, Solano Co., Cal. NW So-
nomas and Main Sts. (130x150-ft.)
Two-story automobile plant and ser-
vice building (probably brick con-
struction).
Owner—Acme Motor Co. (Vallejo Ford
dealers), Vallejo.
Architect—Claude Barton, 522 Grand
Ave., Oakland.

GOVERNMENT WORK AND SUPPLIES

SACRAMENTO, Cal.—Until Feb. 6, 3 P. M., under Order No. 2945-1764, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver, Rio Vista, Solano County, finishing nails, steel angles, steel bars, etc.
Bids same date, same delivery point, under Order No. 2948-1764, to furnish gate valves and miscellaneous pipe and fittings.

Specifications obtainable from the above.

Low Bidder.
POST OFFICE Cost, \$—
POMONA, Los Angeles Co., Cal.
Thomas St., bet. 4th and 5th Sts.
Two-story fireproof Post Office with terra cotta finishing.
Owner—U. S. Government.
Architect—Supervising Architect, Treasury Dept., Washington, D. C.
Low Bidder—Los Angeles Contracting Co., Los Angeles, at \$141,800.
A complete tabulation of the bids received will be published shortly.

SACRAMENTO, Cal.—Until Feb. 9, 3 P. M., bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County, round bastard files, twist drills, saws, etc. Specifications obtainable from above.

Three Low Bidders.
BARRACKS & MESS HALL Cost, \$—
MARE ISLAND Navy Yard, Calif.
Barracks and mess hall at Submarine Base (Spec. 6230).
Owner—U. S. Government.
Plans by Bureau of Yards and Docks, Navy Dept., Washington, D. C.
Three Low Bidders
K. E. Parker, Inc., 135 South Park, San Francisco, at \$143,200
A. Nelson, San Francisco, at \$145,433
Wm. Spivock, San Francisco, at \$145,500

Contract Awarded.
POSTOFFICE Cost, \$148,710
SANTA ANA, Orange Co., Cal.
Two-story and part basement, reinforced concrete postoffice building. (129x103-ft., steel frame, hollow terra cotta fireproofing and partitions, concrete floors and roof, etc.)
Owner—U. S. Government.
Architect—Jas. A. Wetmore, supervising architect, Treasury Department, Washington, D. C.
Contractor—R. J. Chute Co., 2506 W. Santa Barbara Ave., Los Angeles.

SACRAMENTO, Cal.—Until Feb. 3, 3 P. M., under Order No. 2932-1764, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County:

- Machine Bolts**
U. S. Std. hex. heads, cold pressed standard hex. nuts, heads and nuts to be the same size.
50 3/4-in.x5-in.
100 3/4-in.x3 1/2-in.
100 1/2-in.x3
100 1/2-in.x2 1/2-in.
200 1/2-in.x2 1/2-in.
100 1-in.x5 1/2-in.
100 1-in.x4 1/2-in.
100 1-in.x4 1/2-in.
100 3/4-in.x3
100 3/4-in.x2 1/2-in.
50 lbs. Cut Washers, 3/4-in.
100 lbs. do. 1/2-in.
200 lbs. Nuts, standard cold pressed.
hex. U. S. Std., 1 1/2-in.
100 lbs. Machine Bolts, U. S. Std., square heads, cold pressed hex. nuts, heads and nuts standard size, 1x6-in.
1 gross Screws, brass, round head, wood, 1-in. No. 8.

SAN FRANCISCO—T. H. Johanns, 741 14th Street, at \$146 submitted the

lowest bid to Public Works Officer, Twelfth Naval District, 100 Harrison St., for extension of glazed partitions in the Communication Office on fifth floor at 100 Harrison St.

SALT LAKE CITY, Utah.—Algeron Blair, Montgomery, Ala., at \$42,595 submitted low bid to Supervising Architect, Treasury Department, to construct foundation for addition to postoffice at Salt Lake City, Utah. Blair also low bidder at \$653,340 to erect U. S. Veterans' Hospital at Indianapolis, Ind., including the construction of out buildings.

Two Low Bidders.
FOUNDATIONS, ETC. Cost, \$—
SEATTLE, Washington.
Foundations, etc., for Post Office.
Owner—United States Government
Architect—Supervising Architect, Treasury Dept., Washington, D. C.
Schuler & McDonald, 1723 Webster St., Oakland, at \$109,777.
Peter Jarde, Lyon Bldg., Seattle, at \$121,700.

MARE ISLAND, Cal.—Until February 4, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6311, to furnish and install one electric passenger elevator in Naval Hospital at Mare Island Navy Yard. Plans obtainable from Commandant, Mare Island Navy Yard, on deposit of \$10, returnable, checks for same to be made payable to Chief of the Bureau of Yards and Docks.

PEARL HARBOR, T. H.—In addition to those previously reported, following are prospective bidders to erect seaplane hangar at Pearl Harbor, under Specification No. 6215, bids for which will be opened by the Bureau of Yards and Docks, Navy Department, February 18:
T. R. Hauff & Co., Real Estate Trust Bldg., Philadelphia.
McClintic-Marshall Co., 1527 Baltimore Trust Bldg., Baltimore.
The Wm. Bayley Co., 1427 I St., N. W., Washington.
Blaw-Knox International Corp., 342 Broadway, New York City.
Hull-Hodges Co., 809 Citizens Bank Bldg., Norfolk, Va.

SAN FRANCISCO.—Kewanee Boiler Co., 647 Minna St., at \$5,972 awarded contract by Constructing Quartermaster, Fort Mason, to furnish three 100-hp. boilers at Central Heating Plant at Fort McDowell.

Specifications Being Revised.
QUARTERS Cost, \$90,000
SAN FRANCISCO. Presidio.
Eighteen double sets of non-commissioned officers' quarters (each 2-story and basement, brick construction).
Owner—U. S. Government.
Plans by Quartermaster General's Office, Washington, D. C.
Bids will probably be advertised for in one week.

OROVILLE, Butte Co., Cal.—County supervisors have endorsed a 60-acre site in Paradise as a location for the establishment of a proposed \$1,000,000 U. S. Veterans' Hospital. Congress has appropriated \$4,000,000 for the construction and improvement of Veterans' Hospitals. An expenditure of \$1,000,000 for building such a structure in Upper Northern California is provided.

SAN FRANCISCO.—Until Feb. 3, 10 A. M., under Schedule No. 928-31-191, bids will be received by Quartermaster Supply Officer, General Depot, Ft. Mason, to furnish and deliver among other miscellaneous supplies: Kitchen

equipment and hotel ware. Specifications obtainable from above.

SACRAMENTO, Calif.—Until Feb. 3, 3 P. M., under Order No. 2936-1764, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver miscellaneous packing. Specifications obtainable from above.

SAN FRANCISCO—Until February 17, 2 P. M., bids will be received by Superintendent of Lighthouses, to furnish and install the principal machinery for the Tender of the Linden class. Specifications obtainable from above office, Customhouse, San Francisco.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as indicated in the following schedules, further information being available from the Navy Department Office 100 Harrison St., San Francisco.
San Diego, 100,000 lbs. cotton rags sch. 4956.

- Bids Open Feb. 10**
Puget Sound, 23,900 lbs. seamless drawn brass pipe; sch. 4932.
Mare Island, 1,800 ft. rubber-meta gasoline hose and 4,000 ft. rubber water hose, canvas-laid; sch. 4975.
Mare Island, 21,000 lbs. rosin; sch. 4976.
Mare Island, 2 motor-driven tool makers' precision lathes; sch. 4978.
Mare Island, 24,000 lbs. brass pipe; Puget Sound, 24,000 lbs. do.
Mare Island, 10,000 lbs. copper; Puget Sound, 10,000 lbs. do; sch. 5017.
Mare Island, 18,000 lbs. brass pipe and 85,000 lbs. copper tubing; Puget Sound, 95,000 lbs. copper tubing; sch. 5018.
Mare Island, 1,500 lbs. brass weld ing rods; sch. 4955.
Western yards, approx. 220 gas line torches; sch. 497.
Mare Island, approx. 500,000 ft. timber; sch. 4980.
Puget Sound, 2 pneumatic hoists capacity 4,000 lbs.; sch. 4998.
Mare Island, motor-driven boring drilling and milling machine; sch. 4988.
San Diego, 300 gals. black enamel sch. 4992.
Mare Island, 98,000 lbs. admiral metal condenser tubes, and Puget Sound, 98,000 lbs. do; sch. 5015.
- Bids Open Feb. 12**
Mare Island, 45,000 lbs. flake orange shellac; sch. 900-4184.
- Bids Open Feb. 17**
Mare Island, 600 fire extinguisher sch. 5007.
Mare Island and Puget Sound, to list motors and spares; sch. 4915.

COCO SOLO, C. Z.—Box Cranes Hoist Corp., East Ontario St. at Trenton Ave., Philadelphia, Penn., \$5061, awarded contract by Bureau of Yards and Docks to install cranes Coco Solo, under Specification No. 63

HALLS AND SOCIETY BUILDINGS

Plans To Be Prepared.
CLUB BLDG. Cost, \$100,0
SACRAMENTO, Sacramento Co., C
Seventeenth and L Streets.
Club building.
Owner—Young Women's Christian Association, Sacramento (Miss Etta Freeland, Secretary).
Architect—Not Selected.
Construction will not go ahead if one year.
The members of the Board at Misses Miley M. Pope, Winifred Dunn, Lodema Shurtleff, Helen C. ledge; Mesdames Ralph Howell, G.

ork, Francis H. White, C. W. Hieger, Morgan La Rue, Sherman L. Wine, A. B. Oldfield, J. Lester Hinsdale, Oscar Alverson, G. Parker Dillon, James Chris, F. F. Gundrum, J. Jennings, M. B. Pratt, B. C. Clark, Ethel Nathan and J. Roy Kruse.

AKLAND, Cal.—Alameda County supervisors petitioned by Pleasanton and American Legion, to provide \$,000 in next fiscal year budget to finance erection of a Veterans' Memorial Club Building in Pleasanton. The petition recommends immediate purchase of a site for the proposed structure. A site costing \$4500 is now available.

Plans Completed. BUILDING Cost, \$— ICHMOND, Contra Costa Co., Cal. Eleventh St. off Macdonald Ave. two-story and basement Class C brick building.

wner—The Salvation Army. Architect—Douglas Stone, 337 17th St., Oakland. Plans are in owner's hands and upon approval bids will be called for.

contract Recorded. ESIDENCE Cost, \$340,900 AKLAND, Alameda Co., Cal. 15th and Grove Streets. Six-story Class C Evangeline Residence building. wner—The Salvation Army, Premises architect—Douglas Dacre Stone, 337 17th St., Oakland. contractor — Jacobs & Pattiani, 337 17th St., Oakland.

Plans Being Figured—Bids Close Mar. 3, 10:30 A. M. REMONIAL BLDG. Cost, \$65,000 BAYARD, Alameda Co., Cal. (Kolze Property) Main St. one-story reinforced concrete Veterans' Memorial Building (Spanish type). wner—County of Alameda. Architect—H. H. Meyers, Kohl Bldg., San Francisco. Plans obtainable from County Clerk.

HOSPITALS

Contracts Awarded. WARD BLDGS. Cost, \$— SAN FRANCISCO, Relief Home Tract two Class A ward buildings (Wards K and L). wner—City and County of San Francisco. Architect — Hyman & Appleton, 68 Post St., San Francisco. General Contract—Anderson & Ringrose, 230 Market St., San Francisco, at \$324,400. Mechanical Equipment—Scott Co., 243 Minna St., S. F., at \$20,342. Plumbing — Turner Co., 329 Tehama St., San Francisco, at \$36,370.

RENO, Nevada.—Washington County board of Hospital Trustees, Mrs. F. D. Humphrey, Secretary, announces construction will be started in the immediate future on a \$120,000, 50-bed capacity general hospital, at the county hospital grounds. The funds will be derived from an \$83,000 bond issue authorized by referendum at the last election and from the regular county hospital tax.

Completed. HOSPITAL Cost, \$— BAYARD, Alameda Co., Cal. Kelly Hill. Modern hospital and large residence. wner—G. M. Kemper, Hayward. Architect—Not Selected.

Proposed projects are in a very preliminary stage.

Sub-Contracts Awarded. HOSPITAL Cont. Price, \$69,223 STOCKTON, San Joaquin Co., Cal. State Hospital Grounds.

Two-story and part basement reinforced concrete hospital and two-story reinforced concrete industrial building.

Owner—State of California. Architect—State Department of Public Works, Division of Architecture, George B. McDougall, State Architect, Public Works Building, Sacramento.

Contractor — Sorensen & Haggmark, 2652 Harrison St., San Francisco. Concrete Materials—San Joaquin Brick Co., 33 S-El Dorado St., Stockton. Elevators—Spencer Elevator Co., 166 Seventh St., San Francisco.

Glass and Glazing — East Bay Glass Co., 621 Sixth St., Oakland. Lumber—Stockton Lumber Co., Stockton.

Lathing and Plastering—W. A. Gould Mountain View. Millwork—Pacific Mfg. Co., 353 Hobart St., Oakland.

Ornamental Iron — Michel & Pfeffer, Harrison and Tenth Sts., S. F. Painting—A. A. Zelinsky & Co., 4420 California St., San Francisco.

Roofing—W. L. Saxby, 4538 Fleming St., Oakland.

Structural Steel—Schradner Iron Wks., 1247 Harrison St., San Francisco. Steel Metal Work—Forderer Corncorn Works, 260 Potrero Ave., S. F. Cork Insulation and Mortuary Work—Mundet & Son, Inc., 440 Brannan St., San Francisco.

Tile—H. P. Fischer Tile & Marble Co., 74 E-Walser St., Stockton. As previously reported, reinforcing steel awarded to W. C. Hauck & Co., 250 San Bruno Ave., S. F.; steel sash to Soule Steel Co., Rialto Bldg., S. F.; miscellaneous steel to Michel & Pfeffer Iron Works, Harrison and Tenth Sts., S. F.; plumbing and heating to J. C. Clark, 721 W. Elm St., Stockton, at \$14,900; electrical work to Collins Elec. Co., 708 E. Market St., Stockton, at \$3381.

Contracts Awarded. ADDITIONS Cost, \$— SAN FRANCISCO, Potrero Ave. bet. 20th and 23rd Sts. Class A additions on roof of San Francisco Hospital (4 wards; brick walls, tile roofing). Owner—City and County of San Francisco. Architects—Alfred I. Coffey and Martin J. Rist, associated, Phelan Bldg. General Contract—Barrett & Hill, 918 Harrison St., \$269,837. Plumbing—Turner Co., 329 Tehama St., \$38,225. Heating—J. A. Nelson, 10th and Howard Sts., \$17,694. Structural Steel—McClintock-Marshall Co., 2050 Bryant St., Prop. No. 2, \$19,070; J. Gerriick, Call Bldg., Prop. No. 3, \$7,560.

As previously reported, bids for electrical work were rejected and new bids are now being received.

SAN FRANCISCO—Until February 18, 2:30 P. M., bids will be received by S. J. Hester, Secretary, Board of Public Works, for electrical work in connection with Wards K and L at the Laguna Honda Home. Bids previously received were rejected due to failure of the low bidder to include one floor of the structure in his compilation. G. H. Armstrong was low at \$16,700. The next two low bidders

were: Superior Electric Co., \$19,675 and Aetna Electric Co., \$19,871. Plans obtainable from Bureau of Architecture, 2nd Floor, City Hall.

Bids Opened. WAIRD UNIT Cost, \$— ACONEWS, Santa Clara Co., Cal. State Hospital Grounds. Two-story reinforced concrete Ward Unit No. 2 (floor area 70,900 sq. ft.).

Owner—State of California. Architect—State Department of Public Works, Division of Architecture, George B. McDougall, State Architect, Public Works Building, Sacramento.

Will have the partitions, wood roof construction and the roof similar to first unit now in course of construction.

Following is a complete list of bids: General Work J. F. Shepherd, First National Bank Bldg., Stockton.....\$194,500 The Minton Co., Mt. View.....206,389 E. T. Lesure, Oakland.....206,740 H. L. Petersen, S. F.....206,900 C. N. Swensen, San Jose.....209,329 David Nordstrom, Oakland.....219,860 Plumbing, Heating and Ventilating Hatley & Hatley, 1710 10th St., Sacramento.....\$40,572 Wm. F. Serpa, San Jose.....40,975 Scott Co., San Francisco.....41,137 E. L. Gnekow, Stockton.....41,662 The Turner Co., S. F.....44,235 Carpenter & Mendenhall, Sacramento.....44,495 Herman Lawson, S. F., S. F.....45,212 Carl T. Doell, Oakland.....48,578

Electrical Work Gilbert Bros., 286 W Santa Clara Ave., San Jose.....\$7,329 R. M. Butcher, San Jose.....7,300 H. S. Tuttle Co., S. F.....7,680 T. L. Rosenberg, Oakland.....7,704 Newbery Elec. Corp., L. A.....7,953 George Wolfe, Oakland.....8,090 E. L. Gnekow, Stockton.....8,328 Decker Elec. Co., S. F.....8,334 Porter Elec. Co., San Jose.....8,590 Eddy Elec. Co., S. F.....9,172 Mechanical Work Complete E. L. Gnekow, 647 E Main St., Stockton.....\$49,720 Bids held under advisement.

Plans Being Figured—Bids Close Feb. 24, 2 P. M. BOYS' BLDG. Cost, \$— WHITTIER, Los Angeles Co., Calif. State School Grounds. Two-story brick boys' building. Owner—State of California. Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, state architect, Public Works Bldg., Sacramento.

The building is a two-story brick structure with frame interior construction and the roof. The total floor area is approximately 8800 sq. ft.

Separate bids will be entertained for the following segregate parts of the work and combinations thereof: 1. General Work, embracing all branches of the construction other than Plumbing, Heating and Electrical. 2. Electrical Work. 3. Plumbing and Heating Work. 4. Complete Mechanical, including Plumbing, Heating and Electrical Work.

Preliminary Plans Approved. HOSPITAL Cost, \$75,000 SANTA BARBARA, Santa Barbara Co., Cal.

Fireproof hospital (accommodate 72 patients). Owner—County of Santa Barbara. Architect—Soule, Murphy & Hastings, 116 E. Sola St., Santa Barbara. Construction will be started about July 1st.

SANTA MARIA, Santa Barbara Co., Cal.—Until 10 A. M., February 9, bids will be received by the Santa Barbara County Supervisors for additions to and completion of the Santa Maria branch of the Santa Barbara County Hospital. Plans may be obtained at the hospital upon deposit of \$5. D. F. Hunt, county clerk. Work will consist of the addition of an X-ray room and an addition to dining room, remove and replace bracket lights, plaster patching, painting, concrete work, framing, linoleum floor covering, electric wiring and fixtures, etc. All work will be included in one contract.

Plans Being Figured—Bids Close Feb. 17, 2 P. M.

HOSPITAL Cost, \$250,000 (1st unit \$66,000)
 COLUSA, Colusa Co., Calif. County Hospital Grounds.

One- and two-story reinforced concrete hospital (1-story wing and 2-story administration building).
 Owner—County of Colusa.

Architect—Otto Deichmann, 110 Sutter St., San Francisco.

Only the first unit, having a 24-bed capacity, will be undertaken at this time. The structure, when completed, will have a capacity of 100 beds; \$25 deposit required for plans.

Bids Opened.

HEALTH CENTER Approx. \$10,000
 SAN LEANDRO, Alameda Co., Cal.
 One-story frame and stucco health center.

Owner—City of San Leandro.
 Architect—James Narbett, 466 31st St. Richmond.

Following is a complete list of bids:
 W. H. Whitehead, San Leandro \$ 3,600
 J. Merriman " " " 753
 P. J. Haven, San Leandro " 9,870
 L. R. Martin, Oakland " 9,877
 C. M. Fraser " " 9,947
 A. Faria " " 10,630
 Chester Gossett, Oakland " 11,000
 Bids held under advisement.

January 24, 1931

Preparing Plans.
 HOSPITAL Cost, \$100,000

LAS VEGAS, Nevada. Twelfth and Stewart Streets.

Two-story reinforced concrete hospital (19x54 feet).

Owner—Las Vegas Hospital (Roy W. Martin), Las Vegas.

Architect—Not Given.

LOS ANGELES, Cal.—Until 2 P. M., Feb. 16, bids will be received by the county supervisors for the lighting fixtures for the new Acute Unit of the Los Angeles General Hospital. Edwin Bergstrom, Myron Hunt, William Richards, Sumner P. Hunt and Pierpont Davis, architects.

SAN FRANCISCO—Board of Public Works rejects bids for electric work in connection with Class A roof ward addition to San Francisco Hospital and new bids will be opened February 4, 2:30 P. M. Rejected bids follow: Alta Electric Co., \$42,895; Superior Electric Co., \$43,200; Michels & Lucas, \$44,850. Plans obtainable from Bureau of Architecture, 2nd floor, City Hall.

SAN FRANCISCO—Until February 9, 3 P. M., under Proposal No. 645, bids will be received by Leonard S. Leavy, City Purchasing Agent, 207 City Hall to furnish and deliver 100 hospital beds for Laguna Honda Home. Specifications obtainable from above.

LOS ANGELES, Cal.—The Los Angeles Board of Supervisors has rescinded the order advertising for terrazzo for the new Acute Unit of the Los Angeles General Hospital. Miss

Marie B. Beatty, clerk of the board, will probably make a further announcement regarding this work within a few days.

Preparing Working Drawings.
 HEALTH CENTER Cost, \$800,000
 SAN FRANCISCO. Polk and Grove Streets.

Four-story and basement reinforced concrete class A health center emergency hospital and office (granite facing).

Owner—City and County of San Francisco.

Architect—S. Heiman, 57 Post St.

Plans will be completed in about 3 months. The structure will be financed through the \$3,000,000 bond issue voted for health buildings throughout the city. The present two-story Emergency Hospital will be used in the construction of the new building and additional property will be purchased for the new structure.

HOTELS

Preparing Plans.

HOTEL Cost, \$200,000
 POMONA, Los Angeles Co., Cal. San Jose Hills (15-acre Site).

Two and three-story steel frame and reinforced concrete hotel (100 rooms)

Owner—California Realty Investment Corp., 615 Broadway Arcade Bldg. Los Angeles.

Architect—William Mooser Co., Santa Barbara and Nevada Bank Bldg., San Francisco.

Reinforced concrete walls and floor and roof slabs, stucco exterior, clay tile roofing, ornamental iron work, carpeted floors, tile bathrooms, elevator, steam heat, refrigeration system, pipe organ.

Low Bidder.

REMODELING Cost, \$20,000

MODESTO, Stanislaus Co., Cal. Remodel hotel (enlarge floor, new furnishings, etc.)

Owner—Henry Crow, Modesto Hotel, Modesto.

Architect—Davis-Pearce Co. Grant and Weber Sts., Stockton.

Low Bidder—Fred J. Westlund, 525 40th St., Oakland.

Complete list of bids will be published shortly.

POWER PLANTS

HERNDON, Fresno Co., Cal.—Construction has been started on field of-

fices, warehouses and miscellaneous minor construction, preliminary to starting construction on the proposed 70,000-horsepower steam electric plant to be erected by the San Joaquin Light and Power Corporation on the San Joaquin river near Herndon. E. K. Fox, construction engineer on the project, estimates the project will involve an expenditure of \$4,610,000 and is a unit of the expansion program of the company for the year 1931.

DALLAS, Ore.—Willamette Valley Lumber Co., plans early construction of a \$70,000 electric light plant, doubling the capacity of the present plant. It is announced by Eric Fulgham, assistant plant manager.

LAS VEGAS, Nevada—Construction of a \$250,000 power substation at the site of the Hoover Dam will be started by the Southern Sierras Power Co. within the next few weeks. Construction on the power line has passed Daggett and must be completed ready for service by June 25. E. J. Waugh of Riverside is construction engineer for the power company.

SEATTLE, Wash.—J. D. Ross, superintendent of Municipal Bureau of Lighting, has completed specifications and bids will be asked at once by the Board of Public Works to furnish approximately \$40,000 worth of submersible subway transformers. The equipment includes: 24 100-kva. single phase, 60 cycle, 4330/125-250 volt, submersible subway transformers; 36 150-kva. single phase, 60 cycle, 4330/125/250 volt submersible subway transformers and 252 cable external reactors, rated at 1200 amp. 60-cycle, 1.44 kva. 1.2 volts. G. W. Roberge is secretary of the Board of Public Works.

SAN FRANCISCO.—Until February 3, 10 A. M., under Schedule No. 928-31-196, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver f.o.b. Army Base, Brooklyn, N. Y., or f.o.b. Fort Mason, San Francisco, one turbine, of the following specifications:

Steam Turbine—Turbine to be multi-stage type and furnished with two bearings and to operate at a speed not to exceed 3600 R.P.M. Water rate when operating with steam conditions of steam pressure 200 lbs. gauge at boiler, Superheater 73 deg. F. and 2 in. vacuum. Will not exceed 75 K W. 26.4 lbs. per K.W. hour. Will not exceed at 112 K W. 25.6 lbs. per K W. H. Will not exceed at 150 K W.

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24.2 lbs. per K. W. hour. Will not exceed at 187 K. W. 23.4 lbs. per K. W. hour. The wheel casing, diaphragm bearing lining and packing boxes to be split horizontally for convenient inspection. Steam connection will be attached to lower half of casing, exhaust connection will be at bottom of casing and pass through bed plate. Turbine shaft to be of nickel steel and the disks steel forgings with buckets securely attached by means of dove tails, the revolving and stationary buckets shall be of corrosion resisting material. An oil operated governor to be installed having its own oil pump and which will give good regulation. The gears will be single reduction herringbone type and balanced for axial thrust, the pinion will be a solid steel forging integral with the shaft, and made of carbon steel properly heat treated to obtain characteristics that insure long life. The low speed gear wheel will be of solid type and mounted on shaft, teeth to be involute type.

The gears will be entirely enclosed in a rigid semi-steel casing which will conform to the contour of gears. The casing will be split in two halves, on the horizontal center line of the gears. The joint between the two halves will be made tight without gaskets by an improve dlapping process which will prevent the escape of oil vapor.

Generator—The generator will be designed for 150 K. W., at 120 volts and speed not to exceed 1200 R.P.M. and furnished with field rheostat.

General—The turbine, gears and generator shall all be mounted on heavy and rigid cast iron base of length 11-ft. 6-in.; width 4-ft. To be equal and similar to those manufactured by the General Electric Co.

FRESNO, Fresno Co., Cal.—San Joaquin Light & Power Corporation's budget for 1931 provides \$6,248,312 for new construction according to A Emory Wisdon, president of the concern. Among the major items of new construction is the beginning of work this week on the new steam electric generating plant at Herndon, on the San Joaquin River. A substation, costing \$1,375,000, will be installed in connection with the plant, feeding heavy voltage transmission lines running north to Wilson substation, near Merced, and south to the Corcoran substation. Service in the territory west of Fresno is to be improved by a new transmission line from Madera substation to Biola substation. Improvements aggregating \$500,000 will be made at the California Avenue substation, south of Fresno, Corcoran and Legrande substations, Sanger and Ashlan substations and the Famosa substation will be rebuilt. Improvements in distribution lines in all districts, to take care of growing power loads, will cost \$417,000, while new business requirements in line extensions and betterments are estimated to cost \$1,765,830. Improvements in the San Joaquin Company's natural gas system will cost \$965,000, of which \$370,000 represents cost of the main now being laid from Fresno to Merced, bringing natural gas to the latter city. The balance of the appropriation will pay for extensions and betterments in Fresno, Bakersfield, Sanger, Selma and Fowler.

SEATTLE, Wash.—Until February 5 new bids will be received by G. W. Roberge, secretary, Board of Public Works, to furnish 736 miles of wire for the Diablo to Seattle transmission line. Estimated cost \$800,000. Bids previously received on this work were rejected. Specifications obtainable from secretary.

SAN FRANCISCO.—Until Feb. 13, 11 A. M., bids will be received by the Regents of the University of California, Berkeley, for the distribution system for electricity and steam and air on the San Francisco campus of the University of California, Parnassus and Third Avenues. Plans obtainable from Cashier's Window, California Hall, University of California, Berkeley, on deposit of \$50, returnable.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Contract Awarded on Foundation Work

LEGION BLDG. Cost, \$2,500,000
SAN FRANCISCO Civic Center.

Four-story and basement concrete Class A Legion building.

OPERA HOUSE Cost, \$2,500,000
Six-story Class A opera house, seating capacity 4000; standing room 500.

Owner—City and County of San Francisco—(S. F. War Memorial).

Architect—G. A. Lansburgh, 140 Montgomery St. and Arthur Brown, 251 Kearny St.

Manager of Const.—Lindgren & Swinerton, Inc., 225 Bush St.

Contractor—L. J. Cohn, 1 DeHaro St.

\$255,200
Structural steel bids will be taken about March 1.

Plans To Be Prepared.
ADDITION Cost, \$150,000

LAS VEGAS, Nevada.
Two-story Class A courthouse addition.

Owner—County of Clark, William L. Scott, County Clerk, Las Vegas.

Architect—To be selected.
As-biditects are to be asked to submit preliminary sketches for the proposed addition to house offices for the Sheriff and District Attorney on the ground floor and jail quarters on the second floor.

Sub-Contracts Awarded.
FIRE HOUSE Cost, Price, \$6952

CORTE MADERA, Marin Co., Cal.
NE First and Willows Sts.

One-story frame and stucco fire house with tile roof (47x61 ft.) Spanish type (heating plant).

Owner—Corte Madera Fire Dept., Inc., Corte Madera.

Plans by J. C. Oglesby, Freitas Bldg., San Rafael.

Contractor—William Wegner, 225 Monte Vista Ave., Larkspur.

Plastering—201 Shaver St., San Rafael.

Plumbing—M. M. King, 712 D St., San Rafael.

Painting—R. E. Oliver, Corte Madera Lumber—Larkspur Lumber Co., Larkspur.

Preliminary Plans Being Prepared.
CITY BLDG. Cost approx. \$50,000

PORTERVILLE, Tulare Co., Cal. Main and Cleveland Sts.

Municipal building (to house combined city hall, fire station and jail).

Owner—City of Porterville.
Architect—W. D. Coates, Rowell Bldg., Fresno.

MARTINEZ, Contra Costa Co., Cal.
—Martinez Library Association has

purCHASE a site at Ward and Court streets for a new library building which it is expected will be erected within the next three years.

Plans Being Prepared.
ORPHANAGE Cost, \$250,000

SACRAMENTO, Sacramento Co., Cal. Franklin Boulevard.

Two-story and basement reinforced concrete orphanage (parochial school, dormitory, etc.)

Owner—Saint Patrick's Orphanage, Grass Valley.

Architect—Harry J. Devine, California State Life Bldg., Sacramento.

January 29, 1931

Bids Wanted—To Be Opened Feb. 10.
ADDITION Cost, \$250,000

SAN FRANCISCO, Golden Gate Park Addition to present Academy Building (steel and brick construction).

Owner—California Academy of Science Premises.

Architect—Lewis P. Hobart, Crocker Bldg., San Francisco.

Engineer—T. Ronneberg, Crocker Bldg., San Francisco.

Bids are being taken from a selected list of contractors.

RESIDENCES

Sub-Contracts Awarded.
COTTAGE Cost, \$—

IONE, Amador Co., Cal. Preston School of Industry.

Two-story and part basement brick and frame superintendent's cottage (10 rooms).

Owner—State of California.

Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

Contractor—Bilrite Constr. Co., 1203 Walnut St., Berkeley.

Cement—Calaveras Portland Cement Co., 315 Montgomery St., S. F.

Sand and Gravel—Northern California Material Co.

Brick—C. J. Hemstalk, Oakland.

Miscellaneous Steel—Judson-Pacific Co., Foot of Park Ave., Oakland.

Steel Sash and Screens—Detroit Steel Products Co., 63rd and Doyle Sts., Oakland.

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Lumber—Tilden Lumber Co., Foot of University Ave., Berkeley.

Sub-bids are taken on mill work, painting, roofing and tiling.

As previously reported, tithing and plastering awarded to H. E. Phinney, 3250 Sheffield St., Oakland; reinforcing steel to W. S. Wettenhall Co., 17th and Wisconsin Sts., S. F.; steel windows and glazing to Michel & Pfeffer Iron Works, Harrison and Tenth Sts., S. F.; electric work to Luppitt & Hawley, 3126 J St., Sacramento, at \$1250; plumbing and heating to Scott Co., 243 Minna St., S. F., at \$5365.

Plans Completed.

RESIDENCE Cost, \$18,000
SAN MATEO, —San—Mateo Co., Cal. Baywood Park.

Two-story and basement frame and autoce residence (10 rooms and 3 baths).

Owner and Builder—Charles Hammer, 1524 Floribunda Ave., Burlingame
Architect—Chas. Strothoff, 2274 15th St., San Francisco.

Full tile roof, gas heating system. Sub-bids will be taken in one week.

Contract Awarded.

RESIDENCE Cost, \$15,000
PALO ALTO, Santa Clara Co., Cal. Frame and stucco residence (8 rooms, 4 baths).

Owner—Frank De Maria, Palo Alto.
Architect—Chas. K. Sumner, 57 Post St., San Francisco.

Contractor—William Short, 1212 Waverley St., Palo Alto.

Planned.

RESIDENCES Cost \$6000 to \$25,000
SAN FRANCISCO. Sloat Blvd. and 19th Avenue.

Group of approximately 100 residences. Owner—Fernando Nelson, Ocean Ave. and West Gate Drive.

Plans by Owner.

Contractor Taking Sub-Figures.
RESIDENCE Cost, \$11,336
PALO ALTO, Santa Clara Co., Cal. Crescent Park.

Two-story frame and stucco residence
Owner—A. H. Robertson, Pope and Oak Sts., Palo Alto.

Architect—J. K. Banner, Shreve Bldg., San Francisco.

Contractor—H. H. Dabinett, 1765 Fulton St., Palo Alto.

Plans Being Completed.

RESIDENCE Cost, \$15,000
OAKLAND, Alameda Co., Cal. Moraga Road.

Two-story frame and basement frame and stucco residence.

Owner—Withheld.
Architect—Guy L. Brown, American Bank Bldg., Oakland.

Sub-Contracts Awarded.

RESIDENCE Cost, \$10,000
SAN FRANCISCO. Twenty-first and Sanchez Streets.

One and one-half-story frame and stucco residence.

Owner—Burlingame Bldg. Corp.
Plans by Russell Coleman, 1404 Broadway, Burlingame.

Contractor—G. W. Williams Co., 1404 Broadway, Burlingame.

Lumber—Sudden Lumber Co., Evans and Quint Sts., San Francisco.

Grading—Meyer Rosenberg, 1755 San Bruno Ave., San Francisco.

Plans Being Prepared.

RESIDENCES Cost each, \$3000
BURLINGAME, San Mateo Co., Cal. Four 2-story frame and stucco residences (Spanish type).

Owner—Harry B. Allen.
Architect—E. Geoffrey Bangs, 360 17th St., Oakland.

Contract Awarded.

RESIDENCE Cost, \$11,336
PALO ALTO, Santa Clara Co., Cal. Crescent Park.

Two-story and basement frame and stucco residence

Owner—Alan H. Robertson, Pope and Oak Sts., Palo Alto.

Architect—J. K. Branner, Shreve Bldg., San Francisco.

Contractor—Harry H. Dabinett, 1765 Fulton St., Palo Alto.

Plans Being Completed.

RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Cal. Prospect Avenue.

Two-story frame and stucco residence
Owner—Dr. J. Manley, 335 Foothill Blvd., Oakland.

Plans by Irwin M. Johnson, 2215 7th Ave., Oakland.

Plans will be ready for bids Jan. 28.

Bids are also wanted on hot water heating system.

Work Started.

ALTERATIONS Cost, \$—
LOS GATOS, Santa Clara Co., Cal. Remodel present residence (architectural studio in connection with residence) Old Colonial Type.

Owner—E. P. Whitman.

Architect—E. P. Whitman, 192 Main St., Hayward.

Contractor—R. H. Sund, 107 Foater Road, Los Gatos.

Contract Awarded.

RESIDENCE Cost, \$500,000
PASADENA, Los Angeles Co., Cal. No. 246 San Rafael Ave.

Three-story and basement steel frame and reinforced concrete residence (19x77 feet).

Owner—Otto Thum, 638 S. Lucerne Blvd., Los Angeles.

Architect—Marston & Maybury, 25 S. Euclid Ave., Pasadena.

Contractor—Donald F. Harrison, 975 Gramercy Drive, Los Angeles.

Completing Plans

RESIDENCE Cost, \$6,000
STOCKTON, San Joaquin Co., Cal. Driscoll Ave.

Two-story frame and stucco residence (6 rooms).

Owner—A. Hurn.
Architect—Victor Galbraith, Elks Bldg., Stockton.

Bids will be taken within one week.

Sub-Bids Wanted

RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Cal. West Kingsley Place N Trestle Glen Rd.

Two-story frame and stucco residence (7 rooms).

Owner—P. De Luce, 327 17th Street, Oakland.

Architect—H. L. Slocombe, 62 York Drive, Oakland.

Concrete—Walter Tood, 1827 41st Ave., Oakland.

Sub-bids are desired on all other portions of the work

Contract Awarded.

RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal. No. 2328 Parker Street.

One-story and basement frame and stucco residence (5 rooms).

Owner—A. H. Schroeder.

Plans by J. H. Lenfoot & Son.

Contractor—J. H. Lenfoot & Son, 739 Alcatraz Ave., Oakland.

Plans Being Completed.

ALTERATIONS Cost approx. \$15,000
SAN FRANCISCO. Pacific Ave. bet. Radio Ave. and Walnut St.

Alterations to residence.

Owner—Ralph Lyon.
Architect—Warren Perry, 260 California Street.

Bids will be taken in about two weeks.

Construction Postponed Indefinitely.

RESIDENCE Cost, \$11,000
KING CITY, Monterey Co., Cal.

Two-story and basement frame and stucco residence (7 rooms).

Owner—L. Hables, King City.

Architect—Miller and Warneke, Financial Center Bldg., Oakland.

Contractor—W. J. Smith, San Luis Obispo.

Contract Awarded.

RESIDENCE Cost, \$8500
PIEDMONT, Alameda Co., Calif.

Two-story and basement frame and stucco residence.

Owner—W. Tyson.

Architect—Charles F. B. Roeth, 1404 Franklin St., Oakland.

Contractor—David Nordstrom 15 Nace St., Oakland.

Bids To Be Taken In One Week.

RESIDENCE Cost, \$3000
STOCKTON, San Joaquin Co., Cal.

One and one-half-story frame and stucco residence.

Owner—A. C. Weber, 1766 W Willow St., Stockton.

Architect—Glenn Allen, Union Block Bldg., Stockton.

Contract Awarded.

RESIDENCE Cost, \$15,000
MODESTO, Stanislaus Co., Cal.

Two-story frame and stucco residence (9 rooms).

Owner—D. P. Boothey, 114 11th St., Modesto.

Architect—Warren Perry, 260 California St., San Francisco.

Contractor—Harry Brown, Modesto.

Contract Awarded.

APARTMENTS Cost, \$18,000
PITTSBURG, Contra Costa Co., Cal. Home Acres Tract.

One-story frame and stucco bungalow apartments; 4 buildings, containing 2 apts. each.

Owner—George Lynn, Pittsburg.

Private plans.

Contractor—V. A. Peters, Concord.

The structure is being financed by the Community Builders, Inc., of which Peters, the contractor, is vice-president. Each unit will have hardwood floors, electric refrigeration and will contain 3 and 4 rooms and bath.

Owner Taking Sub-Bids.

RESIDENCE Cost, \$5500
BERKELEY, Alameda Co., Cal.

One-story and basement frame and stucco residence (6 rooms).

Owner—A. J. Marin, 1040 Murray St., Berkeley.

Architect—F. H. Slocombe, 62 York Drive, Berkeley.

SCHOOLS

Plans Being Completed.

SCHOOL Cost, \$40,000
SANTA CLARA, Santa Clara Co., Cal. Reinforced concrete annex to high school.

Owner—Santa Clara School District.

Architect—W. H. Weeks, 111 Sutter St., San Francisco.

The structure will be financed with monies now in the district's Reserve Fund.

UKIAH, Mendocino Co., Cal.—Until February 15, 12 noon, bids will be received by W. B. Hagans, clerk, Ukiah Union High School District, to furnish and install lawn sprinkler system at high school grounds. Specifications obtainable from clerk.

Low Bidders.
SCHOOL. Cost, \$106,709
LOS ANGELES, Cal. Thirty-second Street School Site.
 Two-story Class B brick and concrete school.
 Owner—Los Angeles City School Dist.
 Architect—A. S. Nibecker Jr. Co., Los Angeles.
 Heating and Ventilating—Thomas Haverty, at \$10,349
 Plumbing—F. D. Reed at \$7355.
 Electrical Work—John Hamilton, at \$2522.
 Painting—L. Reitman at \$3864.

Complete Bids Listing.
SCHOOL. Cost Approx. \$400,000
OAKLAND, Alameda Co., Cal. 45th Ave. and Foothill Blvd. (Fremont High School Site).
 Three-story and basement steel frame and concrete high school with tile roof.
 Owner—City of Oakland School Dist.
 Architect—Charles W. McCall, 104 Franklin St., Oakland.
 Following is a complete list of bids:
 Chas. Vezey & Son, 3220 Sacramento St., Oakland.....\$386,800
 Schuler & McDonald, Oakland 299,743
 Leibert & Trobeck, S. F.....404,432
 Geo. Petersen, San Leandro.....407,320
 W. C. Keating, Oakland.....408,500
 C. N. Swensen, San Jose.....412,472
 G. P. W. Jensen, S. F.....422,800
 N. J. Sjoberg & Son, S. F.....426,864
 MacDonald & Kahn, S. F.....436,500
 W. G. Thornally, Oakland.....451,675

Finish Hardware
Associated Hardware Co., 3560
 San Pablo Ave., Oakland.....\$5123
Maxwell Hardware Co......3255
 Eudey Bros.5500
 Baker Hamilton & Pacific.....5517
 Bids held under advisement.

Preparing Plans
CHEMISTRY BLDG. Cost, \$100,000
PASADENA, Los Angeles Co., Cal.
 California School of Technology
 Three-story and basement reinforced concrete chemistry building.
 Owner—California Institute of Technology, Pasadena.
 Architect—Mayers, Murray & Phillips and E. G. Hoodhue, 2 W. 47th St., New York City, New York.

SAN JOSE, Santa Clara Co., Cal.—Associated Students of San Jose State College propose to form a bonding company to finance construction of the proposed Spartan Union Building. It is proposed to issue bonds to be sold to local merchants, the stock "bearing interest at a reasonable rate" and stretch over a long period of time. The students have \$15,000 on hand for such a structure.

Plans Being Figured—Bids Close Feb. 4, 7 P. M.
SCHOOL. Cost, \$70,000
VISALIA, Tulare Co., Cal.
 Academic building.
 Owner—Visalia Union High School District.
 Architect—Ernest J. Knupp Co., Rowell Bldg., Fresno.
 Certified check or bidder's bond 10 per cent payable to E. E. Baker, clerk of the Visalia Union High School District, required with bid. Plans on file in office of clerk and obtainable from the architect.

Contract Awarded.
EDUCATIONAL UNIT. Cost, \$18,000
PORTERVILLE, Tulare Co., Cal.
 Two-story and basement frame and stucco educational unit, etc.
 Owner—Porterville Methodist Church.
 Architect—Rollin S. Tuttle, Box C, Los Gatos (deceased).
 Contractor—Frank Sheldon Const. Co., Porterville.

Work comprises new educational unit in connection with the church plant in addition to remodeling the church proper. The educational unit is to contain 18 classrooms for junior and senior departments with facilities for about 750 pupils. Clark Standford, 212 E Putnam Ave., Porterville, is chairman of the Building and Finance Committee.

Contracts Awarded.
SCHOOL. Cost, \$134,415
SANTA BARBARA, Santa Barbara Co., Cal. McKinley Site.
 Masonry school (15 classrooms; stucco exterior, tile roof).
 Owner—Santa Barbara School Dist.
 Architect—Soule, Murphy & Hastings, 116 E Sola St., Santa Barbara.
 Contractor—The Minton Co., Mountain View.

Plumbing and Heating—Ott Hardware Co., Santa Barbara, at \$9259 and \$3842 respectively.
Electrical—California Elec. Co., Santa Barbara, at \$4672.

Plans Being Completed
ADDITIONS. Cost, \$150,000
SAN FRANCISCO. E. Scott St., bet O'Farrell and Scott Sts.
 Addition to Girls' High School.
 Owner—City & County of San Francisco.
 Architect—F. H. Meyer, 525 Market St., San Francisco.
 Bids will be advertised for shortly.

Plans Being Prepared
ADDITIONS. Cost not determined
SAN FRANCISCO. Lowell and Morse. Additions to Longfellow School.
 Owner—City and County of San Francisco, S. J. Hester, secretary, Board of Public Works.
 Architect—F. H. Meyer, 742 Market Street.

Completing Plans.
SCHOOL. Cost, \$100,000
ALHAMBRA, Los Angeles Co., Cal.
 Emory Park Grammar School Site
 Two-story and basement reinforced concrete and masonry school.
 Owner—Alhambra City School Dist.
 Architect—Richard C. Farrell, 11 S. Second St., Alhambra.

Preparing Plans.
SCHOOL. Cost, \$115,000
SANTA PAULA, Ventura Co., Cal.
 Two-story fireproof classroom building.
 Owner—Salico School District.
 Architect—Roy C. Wilson, 12 S. Mill St., Santa Paula.
 Bond election will be held to finance construction.

Plans Complete.
SCHOOL. Cost, \$40,000
SANTA CLARA, Santa Clara Co., Cal.
 Brick veneer annex to high school.
 Owner—Santa Clara School District.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.
 The structure will be financed with monies now in the district's Reserve Fund. Bids will be advertised for shortly.

Preliminary Plans Being Prepared.
SCHOOL ANNEX. Cost, \$20,000
BIEBER, Lassen Co., Cal.
 Three classroom and gymnasium annex for Bieber High School.
 Owner—Lassen County High School District.
 Architect—Ralph D. Taylor, Aituras.

SAN FRANCISCO.—Judson Pacific Co., 609 Mission St., at \$7495 awarded contract by Board of Public Works to furnish, fabricate and deliver structural steel for the proposed James Lick Junior High School, the contract for erection of which has already been

awarded to J. Gerrick and Co., 74 New Montgomery St., at \$2568.

MONTEREY, Monterey Co., Calif.—Following awards of contract made by Monterey Union High School District to furnish and install steel lockers and shelving in shop department of high school. Swartz & Ryland, architects, Spazier Bldg., Monterey:
For Eight Lockers
 J. Morse (awarded).....\$5440
 Worley Company.....7424

For Forty-eight Lockers
 J. Morse (awarded).....\$172.90
 Worley Co.....266.78
 Lyon Metal Prod. Co. (lump sum).....295.00
 Sweets Service Co. (lump sum) \$5170
Steel Shelving
 J. Morse (awarded).....\$ 83.32
 Worley Company.....172.65
 Lyon Metal Prod. Co.....177.00
 Sweets Service Co.....222.54
 C. J. Hillard Co.....300.00

Two Shelves
 Lyon Metal Prod. Co. (awarded).....\$ 87.50
 J. Morse.....60.48
 Sweets Service Co.....136.63
 Worley Company.....126.35

Sub-Contracts Awarded.
SCHOOL. Cost, \$—
SAN FRANCISCO. Noe and 25th Sts. Class A junior high school building (3-story and basement concrete, Travertine exterior, tar and gravel roof; to accommodate approx. 800 students).
 Owner—City and County of San Francisco.
 Architect—Crim, Resing and McGinnis, 488 Pine St.
 Contractor—Anderson & Ringrose, 320 Market Street.

Sheet Metal—Fire Protection Products Co., 1901 16th St.
Metal Lockers—Lyons Metal Company, Hunter-Dulin Bldg.
Metal Sash—Price Building Specialties Co., 683 Howard St.
Steel Sash—Michel and Pfeffer Iron Works, 1415 Harrison St.
Wire Fencing—Michel & Pfeffer Iron Works, 1415 Harrison St.
Dampproofing—Hauser Roofing Co.
Miscellaneous and Ornamental Iron—E. Klores, 477 Clementina St.

BERRYESSA, Santa Clara Co., Cal.—C. A. Thomas, 127 Clayton St., San Jose, at \$2,435 awarded contract by Berryessa School District for concrete work, windows, doors, plumbing and electric work in connection with completion of cafeteria unit of school plant.

BANKS, STORES & OFFICES

Preparing Working Drawings.
STORES. Cost, \$1,000,000
OAKLAND, Alameda Co., Cal. NW Twenty-first St. and Broadway.
 Eight-story and basement class A reinforced concrete furniture display rooms and stores, 100x280-ft.
 Owner—Pacific States Auxiliary Corp. Lessee—John Brunner Co., 15th and Clay Sts., Oakland.
 Architect—Albert F. Roller, 1st National Bank Bldg., San Francisco.
 Engineer—H. J. Brunner, S. H. Cron Bldg., San Francisco.
 The plans will be ready for bids about April 1st.

Completing Plans.
STORE. Cost, \$—
SANTA CLARA, Santa Clara Co., Cal.
 Two-story reinforced concrete store and offices.
 Owner—Engel Simas, 675 Washington St., Santa Clara.
 Architect—Wolfe & Higgins, Realty Bldg., San Jose.
 Bids will be taken in about two weeks.

Contract Awarded.
STORE, ETC. Cost Approx. \$40,000
SAN LUIS OBISPO, San Luis Obispo
Co., Cal.

Three-story steel frame and concrete
store, offices and apartments.

Owner—John Norton, San Luis Obispo.
Architect—Wm. Mosser Co., Monad-
nock Bldg., San Francisco.
Contractor—Theo Maino, San Luis
Obispo.

Plumbing and Heating—E. Payne,
San Luis Obispo.

Plans Being Figured.

BANK Cost, \$60,000
LOS GATOS, Santa Clara Co., Calif.
Main St. and Santa Cruz Avenue
(52x100-ft.)

One-story reinforced concrete bank
with tile roof (ornamental stone
and acoustical plaster).

Owner—Bank of Italy.
Architect—H. A. Minton, Bank of Italy
Bldg., Eddy and Powell Sts., San
Francisco.

There will be two stores, 20x72 feet,
in connection with the building. Contract
will be awarded within the next
two weeks.

Plans Being Prepared.

STORE Cost, \$100,000
PASADENA, Los Angeles Co., Cal.
Colorado and Madison Sts.

Theatre and store building (66x155 ft.)
Owner—Colorado-Madison Syndicate.

Lessee—United Artists Theatres, Ltd
Architect—Walker & Eisen and C. A.
Balch, Western Pacific Bldg.,
Pasadena, (Associated).

Architects Bennett & Haskell, 311
First Trust Bldg., Pasadena, will su-
pervise construction.

It will be a two-story structure, con-
taining an auditorium to seat 900
people and two store rooms, and will
be of reinforced concrete construction.

Completing Working Drawings.

OFFICES Cost, \$100,000
LOS ANGELES, Los Angeles Co., Cal.
NE First St. and Locust Ave.

Two-story and part basement class A
office building (60x100-ft.; 70-ft.
tower).

Owner—Long Beach Building & Loan
Assn., Long Beach.
Architect—W. Horace Austin, Pacific
Southwest Bldg., Long Beach.

Plans Being Prepared.

MARKET Cost, \$30,000
SACRAMENTO, Sacramento Co., Cal.
SW Eleventh and O Streets.

Drive-in market (French farmhouse
type).

Owner—Charles W. Heyer Jr., Mills
Bldg., San Francisco.
Architect—Charles F. Dean, California
State Life Bldg., Sacramento.

Plans Completed.

OFFICES Cost, \$25,000
HURLINGAME, San Mateo Co., Cal.
Broadway.

Two-story steel frame and concrete
office and store building.

Owner—Leo Escloses, 5436 Mission St.,
San Francisco.
Plans by Russell Coleman, 1404 Broad-
way, Burlingame.

Plans Being Figured—Bids Close Today
NEWSPAPER BLDG. Cost, \$15,000
SOUTH SAN FRANCISCO, San Mateo
Co., Cal. Grand Ave. near Maple
Street.

One-story reinforced concrete news-
paper building (25x140 feet; com-
position roof).

Owner—Peninsula Newspapers, Inc.,
Falo Alto.
Architect—John McCool, 381 Bush St.,
San Francisco.

Will be known as "The Enterprise."

January 28, 1931

Contract Awarded.
ADDITION Cost, \$10,000
SALINAS, Monterey Co., Cal.
Two-story reinforced concrete addi-
tion to store.

Owner—A. Iwashige, Salinas.
Architect—W. Story, Pajaro Valley
Bank Bldg., Watsonville.
Contractor—Fred McCrary, 506 Fre-
mont St., Monterey.

Sub-Figures Being Taken.

OFFICES Cost, \$25,000
BURLINGAME, San Mateo Co., Cal.
Primrose Road near Burlingame
Ave.

Two-story and basement reinforced
concrete building (offices & studio)
Owner—Dorothy Crawford Studio.
Plans by Russell Coleman, 1404 Broad-
way, Burlingame.

Contractor—G. W. Williams Co., Ltd.,
1404 Broadway, Burlingame.

Sub-Contracts Awarded.

BANK Cost, \$100,000
CHICO, Butte Co., Cal. Broadway and
Second Sts. (95x51-ft.)

One-story reinforced concrete bank
(steel trusses, marble work, etc.)

Owner—Bank of Italy.
Architect—H. A. Minton, Bank of Italy
Bldg., Eddy and Powell Sts., San
Francisco.

Contractor—James L. McLaughlin Co.,
221 Kearny St., San Francisco.

Tile Work—Steffen & Hovin, Chico.
Roofing—Bush Roofing Co., 1912 K St.,
Sacramento.

Mill Work and Bank Fixtures—Dia-
mond Match Co., Chico.

Plastering—J. R. Bickel, 269 Fell St.,
San Francisco.

Glass—W. P. Fuller Co., 301 Mission
St., San Francisco.

Plumbing, Heating and Ventilating—
Carter and Mendenhall, Sacra-
mento.

Structural Steel—Schrader Iron W'ks,
1247 Harrison St., San Francisco.

Reinforcing Steel—W. S. Wetenhall,
Tulh & Wisconsin Sts., San Francisco.

Ornamental Iron—Federal Ornamental
Iron Works, 16th St. and San Bruno
Ave., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$10,000
OAKLAND, Alameda Co., Cal. Tenth
and Harrison Sts.

Alterations to building.
Owner—Tyre Bros. Glass Co., 1744
Broadway, Oakland.

Architect—A. H. Jacobs, 110 Sutter
St., San Francisco.

Contractor—W. C. Cone, 1744 Broad-
way, Oakland.

Contract Awarded.
ALTERATIONS Cost, \$12,000
SAN FRANCISCO, 550 California St.

Alterations for banking room.
Owner—The San Francisco Bank, 526
California St.

Architect—Ward & Blohme, 24 Cali-
fornia Street.

Contractor—C. W. Heyer, Jr., Mills
Bldg.

Plans Being Prepared.
NEWSPAPER BLDG. Cost, \$250,000
POMONA, Los Angeles Co., Cal. SE
Third and Thomas Sts.

Six-story Class A reinforced concrete
newspaper building (119x120 ft.)

Owner—Pomona Progress-Bulletin.
Architect—Lincoln Rogers, 2412 W.
Seventh St., Los Angeles.

Structural Steel Bids to Be Taken in
One Week

BANK Cost, \$20,000
MONTEREY, Monterey Co., Cal. Loca-
tion not selected.

One-story and mezzanine steel frame
and concrete bank with tile roof.

Owner—Monterey County Trust &
Savings Bank.

Architect—H. H. Winner Co., 580
Market St., San Francisco.
Manager of Constr.—Mark Finlayson,
care Architect.

As previously reported, excavation
awarded to M. J. Murphy, Carmel.

Completing Plans—Contract Awarded.
MARKET Cost, \$25,000
FRESNO, Fresno Co., Cal. Southeast
El Dorado and G Sts.

One-story process market (9 double
stalls, each 25x30-ft., and 12 single
stalls, each 14x30-ft.)

Owner—H. Henni, W. H. Stricker,
Geo. Karabian and M. Magarian,
Fresno.

Plans by Contractors.
Contractor—Fisher and McNulty, Mat-
tel Bldg., Fresno.

Preparing Plans.

MARKET Cost, \$150,000
LOS ANGELES, Cal. Romaine and
Western Aves

One-story and mezzanine floor brick
market (140x150 feet).

Owner—Aaron F. Norton.
Architect—Rudolph Falkenrath, Cham-
ber of Commerce Bldg., Los An-
geles.

Plans Being Figured.

BANK Cost, \$60,000
LOS GATOS, Santa Clara County, Cal.
Main St. and Santa Cruz Avenue
(52x100-ft.)

One-story reinforced concrete bank
with tile roof (ornamental stone
and acoustical plaster).

Owner—Bank of Italy.
Architect—H. A. Minton, Bank of Italy
Bldg., Eddy and Powell Sts., San
Francisco.

There will be two stores, 20x72 feet,
in connection with the building.

Contract Awarded—Sub-Bids Being
Taken.

STORES Cost approx. \$75,000
OAKLAND, Alameda Co., Calif. SW
19th St. and Telegraph Ave.

Group of 1-story steel frame and terra
cotta shops and stores.

Owner—Twentieth & Broadway Real-
ty Co., Oakland.

Architect—A. J. Evers, 525 Market St.,
San Francisco.

Contractor—George P. W. Jensen, 320
Market St., San Francisco.

Terra Cotta—N. Clark & Sons, 116
Natoma St., San Francisco.

Additional sub-contracts will be an-
nounced shortly.

Sub-Bids Awarded.

ALTERATIONS Cost, \$30,000
SACRAMENTO, Sacramento Co., Cal.
Ninth St. near K St.

Alterations and additions to one-story
and basement brick store and
bank.

Owner—Peoples Finance & Thrift Co.,
1005 8th St., Sacramento.

Architect—Chas. F. Dean, California
State Life Bldg., Sacramento.

Contractor—Campbell Const. Co., 500
R St., Sacramento.

Plumbing and Heating—Luppen and
Hawley, 3126 J St., Sacramento.

Concrete Aggregate—Sacramento
Rock & Sand Co., 1503 25th St.,
Sacramento.

Cement—Henry Cowell Lime & Ce-
ment Co., 509 J St., Sacramento.

Plastering—Thos. C. Scollan Co., 2919
T St., Sacramento.

Structural Steel—The Palm Iron W'ks
15th and S Sts., Sacramento.

Lumber—Cutter Mill & Lumber Co.,
12th and North E Sts., Sacra-
mento.

Hardware—Shorrock-Smith Hardware
Co., 818 J St., Sacramento.

Painting—Willcox-Wilson, 1234 34th
St., Sacramento.

Plans Being Prepared.
BANK Cost, \$—
ONTARIO, San Bernardino Co., Cal.
 A Street and Euclid Avenue.
 One-story concrete bank building (11x48-ft.)
 Owner—First National Bank, Ontario.
 Architect—Morgan, Walls & Clements,
 1135 Van Nuys Bldg., Los Angeles.
 Bids will be taken immediately upon completion of the plans.

Completing Plans.
STORE Cost, \$50,000
BAKERFIELD, Kern Co., Cal. 19th and I Streets.
 One-story and basement brick store.
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of Italy Bldg., San Francisco.
 Lessee—J. J. Newberry.
 Plans will be ready for bids about February 1.

Sub-Contracts Awarded.
STORE Cont. price, \$24,000
SALINAS, Monterey Co., Calif. Main Street.
 One-story and mezzanine floor and basement reinforced concrete and steel department store.
 Owner—Porter & Irvine, 210 Main St., Salinas.
 Architect—M. W. Morrison, 601 42nd Ave., San Francisco.
 Contractor—E. F. Reese, 153 Central Ave., Salinas.
Steel Work—Soule Steel Co., Rialto Bldg., San Francisco.
Plumbing, Steel Metal and Heating—Anderson & Dougherty, 225 Main St., Salinas.
Electric Work—Schillino Elec. Works.
Plastering—Brady Co., Monterey.
Concrete Work—Granite Const. Co.
 As previously reported ornamental iron awarded to San Jose Iron Works, 535 W San Carlos St., San Jose.

Painting Contract Awarded.
ANNEX Cost, \$1,500,000
SAN FRANCISCO. Bush Street near Montgomery St. (50x137-ft.)
 Twenty-two-story class A reinforced concrete annex to building.
 Owner—Mills Estate, Inc. (Curtis D. O'Sullivan, president), Mills Bldg.
 Architect—Lewis P. Hobart, Crocker Bldg.
 Contractor—Lindgren and Swinerton, Inc., 255 Bush St.
Painting—J. A. Mohr & Sons, 433 11th Street.
 Will be known as Mills Tower.
 Other awards reported Oct. 30, 1930.

THEATRES

Bids To Be Taken Next Week.
THEATRE Cost, \$500,000
ALAMEDA, Alameda Co., Cal. North Central Ave. W Park St.
 Structural steel frame and reinforced concrete theatre (to seat 2200; 126x210-ft.)
 Owner—Alameda Amusement Co.
 Architect—Miller & Pflueger, 630 Market St., San Francisco.
 Separate bids will be taken on structural steel, heating, ventilating and electric work.
Plans To Be Prepared.
THEATRE Cost, \$250,000
 (Exclusive of furnishings)
RENO, Nevada. S-Virginia and Liberty Streets.
 Class A theatre and stores (125x200 ft.)
 Owner—Hughes-Franklin Theatres of Los Angeles, associated with D. Bershon, Los Angeles.
 Architect—Not Given.
 Harold B. Franklin is president of the Hughes-Franklin Theatres and was formerly president and general manager of the Fox West Coast Theatres.

Sub-Bids In.
THEATRE Cost, \$106,000
SAN MATEO, San Mateo Co., Cal.
 Two-story class C concrete and steel theatre and store (to seat 1000; contain four stores).
 Owner—W. S. Leadley, 207 2nd St., San Mateo.
 Architect—S. Chas. Lee, 2404 W 7th St., Los Angeles.
 Contractor—Leadley & Wiseman, 207 2nd St., San Mateo.
 Construction will start in about two weeks.

WHARVES AND DOCKS

Plans Being Completed
SHED Cost, \$125,000
SAN FRANCISCO. Pier No. 15.
 Shed and bulkhead building (150x800 ft.; steel frame construction with concrete walls).
 Owner—State Board of Harbor Commissioners.
 Engineer—Frank White, Ferry Bldg., San Francisco.
 Sub-structure is nearing completion.
 Total cost of project, \$700,000.
 Bids will be taken about Feb. 15

Contract Awarded.
SUBSTRUCTURE Cont. price, \$121,844
OKLAND, Alameda Co., Cal. Foot of Webster Street.
 Concrete sub-structure for Inland Waters Terminal; 152 ft. on harbor side; 285 ft. on slip side; also concrete viaduct 250 ft. by 33 ft.
 Owner—City of Oakland (Port Commission, G. B. Hegardt, secretary) Oakland Bank Bldg., Oakland.
 Plans by Eng. Dept. of City Port Commission, Oakland Bank Bldg., Oakland.
 Contractor—M. E. McGowan, 74 New Montgomery St., San Francisco.

MISCELLANEOUS CONSTRUCTION

January 25, 1931
Additional Sub-Contracts Awarded.
GRANDSTAND, ETC. Cost, \$1,250,000
SAN FRANCISCO. Fifteenth St. and Potrero Ave.
 Baseball Park, class A steel and concrete grandstand, 1000 ft. long.
 Owner—San Francisco Baseball Club, 15th and Valencia Sts.
 Engineer—H. J. Brunner, Sharon Bldg.
 Contractor—Lindgren and Swinerton, Inc., 225 Bush St.
Miscellaneous Iron—Anchor Post Fence Co., 460 5th St., and Peerless Ornamental Iron & Bronze Co., 525 Palsom St.
Finish Hardware—Palace Hardware Co., 581 Market St.
 Other awards reported Jan. 13, 1931.

Plans Being Completed
SWIMMING POOL Approx. \$20,000
MONTREY, Monterey Co., Cal.
 Reinforced concrete and tile swimming pool.
 Owner—Monterey Union High School District.
 Architect—Swartz & Ryland, Spazier Bldg., Monterey.
 Bids will be taken in about three weeks.
Sub-Contracts Awarded.
ALTERATIONS Cont. Price, \$29,975
OKLAND, Alameda Co., Cal. Telegraph Ave. near 29th St.
 Alterations and additions to two-story and basement brick veneer residence for mortuary and chapel.
 Owner—Grant D. Miller, 2368 E-14th St., Oakland.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland
 Contractor—Jensen & Pedersen, 3443 Adeline St., Oakland.

Masonry—A. Hallert, 2500 65th Ave., Oakland.
Lumber—Sunset Lumber Co., 400 High St., Oakland.
Mil Work—Lannon Bros. Mfg. Co., Fifth and Magnolia Sts., Oakland.
Cut Stone—Fred Torreno & Son, 1715 Webster St., Alameda.
Structural Steel—California Steel Co., 20 Harrison St., Oakland.
Reinforcing Steel—W. S. Wetenhall Co., 17th and Wisconsin Sts., San Francisco.
Roofing—General Roofing Co., Beach and Halleck Sts., Oakland.
Painting—Armstrong Decorating Co., 4047 Everett Ave., Oakland.
Plastering—Frank M. Clausen, 354 Hobart St., Oakland.
Glass and Glazing—East Bay Glass Co., 627 Sixth St., Oakland.
Concrete—L. M. Rasmussen, 2056 84th Ave., Oakland.
 Foundation work has been completed
 As previously reported, plumbing awarded to Max Finzel, 2025 Hopkins St., Oakland; heating to Geo. Bell, 1926 E-15th St., Oakland; electric work to Geo. Woolf, 795 Alcatraz Ave., Oakland.

SACRAMENTO, Cal.—City Manager Jas. Dean announces plans are being prepared for construction of a new tennis court in Southside Park. Will have asphaltic pavement. The 1931 budget provides \$1200 for this work.

Contracts Awarded.
ALTERATIONS Cont. price, \$29,975
OKLAND, Alameda Co., Cal. Telegraph Ave. near 29th St.
 Alterations and additions to two-story and basement brick veneer residence for mortuary and chapel.
 Owner—Grant D. Miller, 2368 E-14th St., Oakland.
 Architect—Miller and Warnecke, Financial Center Bldg., Oakland.
 Contractor—Jensen & Pedersen, 3443 Adeline St., Oakland.
Concrete—L. M. Rasmussen, 3443 Adeline St., Oakland.
Masonry—A. Hallert, 2500 65th Ave., Oakland.
Lumber—Sunset Lbr. Co., 400 High St., Oakland.
Milwork—Lannon Brothers Mfg. Co., 5th and Magnolia Sts., Oakland.
Cut Stone—Fred Ferrero & Son, 1715 Webster St., Alameda.
Reinforcing Steel—W. S. Wetenhall Co., 17th and Wisconsin Sts., San Francisco.
Plastering—Frank M. Clausen, Oakland.
Painting—Armstrong Decorating Co., 4047 Everett St., Oakland.
Glass—East Bay Glass Co., 627 Sixth St., Oakland.
Roofing—General Roofing Co., Beach and Halleck Sts., Oakland.
 As previously reported, plumbing awarded to Max Finzel, 2025 Hopkins St., Oakland; heating to George Bell, 1926 E-15th St., Oakland; electric work to George Woolf, 795 Alcatraz Ave., Oakland.

UKIAH, Mendocino Co., Cal.—Until February 18, 8 P. M., new bids will be received by Fred L. Bosworth, city clerk, to furnish:
 Two 2,500-cu. ft. riveted gas tanks 6-ft. dia. by 30-ft. long, 3/4-inch shell, 1/2- and 5/8-inch heads. Equipped with one 13x15 manhole in head, three 2-inch forged steel flanges, one 1/2-inch dial pressure gauge, designed for 90-lb. per sq. inch working pressure and built in accordance with A.S.M.E. Code for Unfired Pressure Vessels, f.o.b. cars, Ukiah; 30 days delivery.
 Certified check 10% payable to city required with bid. Further information obtainable from city clerk.

Engineering News Section

BRIDGES

SONOMA COUNTY, Cal.—Until February 18, 12 p. m., bids will be received by State Highway Commission to construct timber bridge across Mark West Creek about 4.5 miles north of Santa Rosa, consisting of six 19-ft. spans and two 16-ft. 10-in. spans, surfaced with Portland cement concrete, on pile bents and grading and paving approaches with Portland cement concrete pavement.

SANTA ANA, Orange Co., Cal.—Until February 9, 7:30 p. m., bids will be received by city council to construct reinforced concrete grade separation structure under tracks of the Southern Pacific Railway and the Santa Fe Railway at 14th St.; estimated cost, \$150,000. Project involves: (a) 22,400 cu. yds. excavation; (b) 168 ft. false work under railway track; (c) 1,557 cu. yds. concrete; 1:3-6 mix; (d) 370 cu. yds. concrete; 1:2-3 mix; (e) 1,205 cu. yds. concrete; 1:2-3 mix; (f) 49 cu. yds. concrete; 1:1½-3 mix; (g) 202,700 lbs. reinforcing steel; (h) 307,100 lbs. structural steel; (i) Pumping plant; (j) 12 No. 400-D Marbelite standards. Plans obtainable from C. L. Jenken, city engineer.

STOCKTON, San Joaquin Co., Cal.—As previously reported, bids will be received February 9, 11 a. m., by Eugene D. Graham, county clerk, to construct subway near Forest Lake on the Lower Sacramento road in Road District No. 2 under the tracks of the Southern Pacific Railroad; estimated cost \$26,000. Railroad is to pay a portion of the cost. Project involves:

- (a) 530 cu. yds. excavation (earth unclassified).
- (b) 80 cu. yds. old concrete to be removed.
- (c) 227 cu. yds. reinforced concrete (1:1½-3).
- (d) 315 cu. yds. mass concrete
- (e) 70 cu. yds. deck concrete.
- (f) 70 lin. ft. concrete handrail.
- (g) 44,000 lbs. reinforced steel.
- (h) Drainage equipment.
- (i) Lighting and wiring.

Certified check, 10 per cent payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from County Surveyor Julius Manthey on payment of \$15 deposit.

SAN JOSE Santa Clara Co., Cal.—County Supervisors of Santa Clara and San Mateo Counties are planning joint construction of a new and wider bridge on the Middlefield road connecting the two counties. Robert Chandler is Santa Clara County Surveyor.

OAKLAND Cal.—Until January 26 4:30 P. M bids will be received by G. B. Hegardt secretary City Port Commission 424 Oakland Park Bldg. to construct pile and timber trestle and power line to support pontoon dredge pipe in connection with dredging of Outer Harbor. Will be approximately 1000 ft. in length. Plans obtainable from above office.

SANTA CRUZ, Santa Cruz Co., Cal.—Until February 7, bids will be received by county supervisors to construct underpass at Chittenden. Details will be published shortly. Plans obtainable from Lloyd Eowman, county surveyor.

SANTA CRUZ, Santa Cruz Co., Cal.—C. C. Gildersleeve, 1508 G St., Napa, at \$23,989 awarded contract by county supervisors to construct steel bridge with concrete floor over the Southern Pacific tracks near Felton Station, Zayante creek and Zayante road in the San Lorenzo Road Dist. Complete list of bids received on this project published in our issue of January 13.

- SANTA CRUZ, Santa Cruz Co., Cal.**—As previously reported, bids will be received February 7, 11:15 A. M., by H. E. Miller, county clerk, to construct Chittenden Underpass in Pajaro Road District. Project involves:
- (1) 28,500 cu. yds. roadway excavation without classification;
 - (2) 800 cu. yds. structure excavation without classification;
 - (3) 8,000 sq. yds. subgrade;
 - (4) 1,425 cu. yds. Class "A" concrete pavement, in place;
 - (5) 10 cu. yds. Class "A" concrete structures, in place;
 - (6) 7 cu. yds. Class "A" concrete sidewalk, in place;
 - (7) 1,740 cu. yds. Class "B" concrete abutments, in place;
 - (8) 6,090 lbs. reinforcing steel, in place;
 - (9) 166 lin. ft. corrugated Metal culverts, 12" in dia., in place;
 - (10) 150 lin. ft. corrugated metal culverts, 18" in dia., in place;
 - (11) 516 lin. ft. corrugated metal culverts, 24" in dia., in place.

Certified check 10% required with bid. Plans obtainable from County Surveyor Lloyd Bowman, on deposit of \$5, returnable.

LOS ANGELES COUNTY, Calif.—Following bids received Jan. 28 by State Highway Commission for the following bridge work in Los Angeles County:

- Bridge over Topanga Creek, about 4 miles north of Santa Monica, to be widened by constructing eight 27-foot timber spans on pile bents adjoining the existing concrete bridge and grading and surfacing approaches with asphalt concrete.
- Bridge over Las Flores Creek about 7 miles north of Santa Monica to be widened by constructing two 26-foot reinforced concrete girder spans on a concrete pier and concrete abutments and grading and surfacing approaches with asphalt concrete.
- Owl Truck Co., Inc., Tompkins. \$27,369
- F. A. Wellers, San Diego. 28,516
- P. M. White, Santa Monica. 31,524
- Oberg Bros., Los Angeles. 32,790
- Sidney Smith, Los Angeles. 32,795

SAN FRANCISCO—Bureau of Engineering, Department of Public Works 3rd floor, City Hall, is conferring with State Harbor Commission, regarding construction of proposed Third Street Bridge over Islals Channel to replace the present bridge. The project will include dredging and widening the channel at a cost of \$550,000. The

State Harbor Commission will contribute approximately \$150,000 of the total cost, the balance to be paid by the city.

OAKLAND, Cal.—J. F. Knapp, Financial Center Bldg., Oakland, awarded contract by Southern Pacific R. R. to construct Seventh Street subway on a bid of \$123,462 desires sub-bids in connection with the project. Bids are wanted for sewer construction, pile driving, concrete, waterproofing and reinforcing steel. Subway will be 755-ft. in length. Level portion of subway will be 167-ft. long; roadway 23-ft. wide with 6-ft. pedestrian walks on north side. Ventilating system similar to the one now in use in the Geo. A. Posey tube of Alameda County will be installed.

SONOMA COUNTY, Calif.—As previously reported bids will be received Feb. 18 by State Highway Commission to construct timber bridge across Mark West Creek about 4.5 miles north of Santa Rosa, consisting of six 19-foot spans and two 16-foot 10-inch spans, surfaced with Portland cement concrete, on pile bents and grading and paving approaches with Portland cement concrete pavement. Project involves:

- (1) 1770 cu. yds. rdwy. excav., without class.;
- (2) 220 tons crushed gravel or stone (detour surface);
- (3) 26 bids. heavy fuel oil;
- (4) 1 only, detour bridge complete;
- (5) 1 only, existing bridge to be removed;
- (6) 720 sq. yds. existing pavement to be removed;
- (7) 2900 lin. ft. furnish redwood piles, including test piles;
- (8) 74 each, drive redwood piles, including test piles;
- (9) 42 M. ft. b.m. redwood timber, dense, select all-heart struc. grade;
- (10) 23 M. ft. b.m. redwood timber, select, all-heart struc. grade;
- (11) 890 sq. yds. subgrade for pave.;
- (12) 285 cu. yds. class A Portland cement concrete (pave.);
- (13) 17,500 lbs. reinf. steel;
- (14) 1 lot, misc. items of work.

OAKLAND, Cal.—J. F. Knapp, Financial Center Bldg., Oakland, at \$123,465 awarded contract by Southern Pacific Railroad to construct Seventh Street Subway of which the City of Oakland is to pay one-half the cost. Following are four low bidders:

J. F. Knapp.....	\$123,465
E. T. Lesure.....	131,500
W. H. Hauser.....	132,515
Hutchinson Co.....	139,310

Subway will have a grade of 4% in east approach and 5% in west. Complete length will be 755 ft. Level portion of subway will be 167 ft. long; roadway 23 ft wide with 6 ft. pedestrian walks on north side. Ventilating system similar to one now in use in the Geo. A. Posey Tube of Alameda County will be installed.

STOCKTON, San Joaquin Co., Cal.—Until February 16, 10 A. M., bids will be received by Eugene D. Graham, county clerk, to construct two bridges on Farmington-Bellota Road in Road District No. 1.

Certified check 10% payable to Chairman of the Board of Supervisors

required with bid. Plans on file in office of clerk. Julius Manthey, county surveyor.

DREDGING, HARBOR WORKS & EXCAVATIONS

EUREKA, Humboldt Co., Calif.—Longview Dredging and Construction Co., Longview, Wash., submitted low bid to the U. S. Engineer Office, Customhouse, San Francisco, for dredging in Humboldt Bay. Project involves 525,420 cubic yards.

Bidders and unit figures follow:

Longview Dredging and Construction Co.	\$2.25
San Francisco Bridge Co.	\$2.7
Hydredging Co.	\$7.00
Engineer estimate	\$4.23

All bids held under advisement.

RICHMOND, Contra Costa Co., Cal.—Olympian Dredging Co., 249 First St., San Francisco, at \$9,150.88 awarded contract by U. S. Engineer Office, San Francisco, for dredging 94,340 cu. yds. material in Richmond Harbor.

RICHMOND, Contra Costa Co., Cal.—American Dredging Co., 255 California St., San Francisco, at 31c cu. yd. awarded contract by U. S. Engineer Office, San Francisco, for dredging 195,000 cu. yds. sand and fill in Richmond Harbor.

OAKLAND, Cal.—Following bids taken under advisement by City Port Commission to construct 1000 feet of trestle and power line to carry pontoon dredge pipe in connection with dredging Outer Harbor Channel: (a) pile, per lin. ft.; (b) lumber, per M.B.M.; (c) creosoted pile, per lin. ft.; (d) per pile:

Duncanson-Harrelson Co., DeYoung Bldg., S. F. (a) \$0.245; (b) \$64; (c) \$0.64; (d) \$6.70. (awarded contract).

Clinton-Stephenson Constr. Co., Ltd. Monadnock Bldg., S. F. (a) \$0.2775; (b) \$63.60; (c) \$9.74; (d) \$10.00.

A. B. McGowan, 74 New Montgomery St., S. F. (a) \$0.34; (b) \$65; (c) \$0.72; (d) \$12.

A. W. Kitchen, 110 Market St., S. F. (a) \$0.27; (b) \$48; (c) \$0.69; (d) \$6

Healy-Thibbitts Constr. Co., 64 Pine St., S. F. (a) \$0.28; (b) \$48; (c) \$0.65; (d) \$7.

EUREKA, Humboldt Co., Calif.—Longview Dredging Co., Longview, Wash., at 32.25c cu. yd. awarded contract by U. S. Engineer Office, Customhouse, San Francisco, for dredging in Humboldt Bay, involving 25,420 cu. yds. Complete list of unit bids published in issue of January 23.

IRRIGATION PROJECTS

TURLOCK, Stanislaus Co., Calif.—Following contracts awarded by Turlock Irrigation District in connection with construction in Improvement Districts Nos. 58, 34, 35, 10, 82, 66, 34-28 Joint Spillway and Chatom Spillway, the work being divided into eight schedules and amounting in total to about 652,671 sq. ft. of 2-inch thick concrete canal lining and 473 cu. yds. of concrete in canal structure, and about 660 lin. ft. of 30-in. and 320 ft. of 36-in. dia. concrete pipe.

Aldrin & Anderson, Turlock, awarded work totaling \$25,764.44 and including: schedule 1 and 1 A, which is the McVey ditch, known as Improvement District No. 58; schedule 3, the Hedman ditch known as Improvement District No. 33; and schedule 4, the Casey-Hedman Joint spillway, which is part of Improvement District No. 34.

Ed. Erickson, Turlock, awarded schedules 2 and 5, including the Casey ditch and the Chatom spillway, re-

spectively. Contracts total \$26,073.82.

Lloyd W. Terrell, Turlock, awarded contracts for work in schedules 6 and 8, including Improvement District No. 10, the Emninger ditch; and Improvement District No. 66, the Edwards ditch. Award of contract on schedule 7 is pending, but it is expected that this will also be awarded to Terrell. The three schedules will amount to \$16,397.44.

STREET LIGHTING SYSTEMS

EUREKA, Humboldt Co., Cal.—City Council declares intention (233) to install cast iron lighting standards, together with underground system, in Fourth St. from Broadway to J St. Estimated cost \$15,000. 1911 Act, Bond Act 1915. Hearing February 3. A. Walter Klidale, city clerk. E. D. Gardner, city engineer

ALAMEDA, Alameda Co., Cal.—Board of Public Utilities file a report to the city council estimates cost of underground wiring system in connection with street lighting in Webster St. between the segregation line and Central Ave., at \$83,505. The cost of 48 2-lamp electroliners matching those on the Posey Tube approach is placed at \$18,062, which would require an assessment of \$3.92 per front foot for property affected by the improvement. Taken under advisement.

LOS ANGELES, Cal.—Walker-Martin Corp., Ltd., 1241 E. Florence Ave., at \$31,462 awarded contract by Board of Public Works to install ornamental street lighting system in Magnolia Blvd. bet. Cahuenga Blvd. and Tujunga Ave.

GLENDALE, Los Angeles Co., Cal.—The Glendale city council has under consideration a proposal to illuminate Brand Blvd. by use of flood lights instead of an electroliner system as planned by the Brand Boulevard Advisory Committee. Estimates of cost etc. have been furnished by Otto K. Olesen Illuminating Co. of Los Angeles. The approximate cost of flood lighting would be about \$125,000.

MACHINERY AND EQUIPMENT

AUBURN, Placer Co., Calif.—Until February 3, 10 A. M., bids will be received by A. S. Fleming, county clerk, to furnish one Caterpillar Thirty Tractor. Specifications on file in office of the clerk or obtainable from Supervisor of District No. 1.

DELANO, Kern Co., Calif.—Until February 6, 7 P. M., bids will be received by G. A. Swanson, clerk, Delano Union Grammar School District, to furnish and deliver one school etc. of at least 25-hp., with seating capacity of not less than 48 grammar school pupils. Certified check or bidder's bond 10% payable to clerk required with bid. Specifications obtainable from clerk.

SANTA ANA, Orange Co., Calif.—County purchasing agent authorized by supervisors to purchase one 3-ton truck for county road department.

WANTED

TO PURCHASE used Linn Truck Truck. Lurchal-Wiley, Inc., 208 Columbia St., Seattle Washington.

STOCKTON, San Joaquin Co., Cal.—Bids will be asked shortly by city council to furnish motor equipment for various municipal departments.

The automobiles to be purchased and the maximum amount budgeted for each are as follows: One three-window coupe, four- or six-cylinder, \$772; two four-door sedans, four- or six-cylinder, \$872, and two one and one-half-ton trucks, four- or six-cylinder, of at least 17½-inch wheelbase, \$325. The vehicles to be sold are one 1927 Chevrolet touring, one 1928 Chrysler coupe, one 1927 Studebaker - Erskine and two 1924 Chevrolet trucks.

SAN JOSE, Santa Clara Co., Cal.—Bids will be asked at once by city council to furnish four 1½-ton motor trucks for use of street department to replace horse-drawn trucks now in use. John J. Lynch, city clerk. Wm. Popp, city engineer.

SAN FRANCISCO—Until Feb. 17, 2 P. M., bids will be received by Superintendent of Lighthouses, to furnish and install the principal machinery for the Tender of the Linden class. Specifications obtainable from above office, Customhouse, San Francisco.

RAILROADS

SAN FRANCISCO—Chief Engineer Frank G. White, State Harbor Commission, Ferry Bldg., is making surveys to extend Belt Line Railroad into the industrial area south of the Islais Channel.

LOS BANOS, Merced Co., Cal.—Until February 18, 8 P. M., bids will be received by V. G. Bryant, city clerk, to furnish one "pick-up" truck fully equipped; cost not to exceed \$750, for use of Municipal Water Department. Allowance to be made for truck no longer required by city.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—City council rejects bids to furnish and install safety signal installations at Grand Ave. and the Bayshore Highway. A change in specifications prompted the action. New bids will be asked.

STOCKTON, San Joaquin Co., Cal.—Examiners of the Interstate Commerce Commission have recommended that the application of the Southern Pacific Railroad for authority to construct 2.7 miles of road from a point near the westerly limits of Stockton, across the Boggs tract crossing the San Joaquin river to Rough and Ready Island, crossing the island to a point on the east bank of the Burns cutoff, be denied. They also recommended that the Western Pacific and Santa Fe systems be authorized to jointly construct a line across Boggs Tract and Rough and Ready Island.

SAN FRANCISCO.—Western Pacific R. R., Mills Bldg., through its subsidiary, the Western-Pacific California Railroad, has been authorized by the Interstate Commerce Commission to construct railroad in San Francisco, San Mateo and Alameda counties.

About 39 miles of construction will be involved, and in addition the Western Pacific was authorized to acquire a one-third interest in the so-called Quint street line in San Francisco.

The estimated construction costs are divided into two parts, the first embracing the line from San Francisco to Redwood City, and the second embracing the line from Redwood City to Niles, including a bridge across the southern end of San Francisco bay.

The cost of the first part is estimated at \$4,167,786, while the second part is estimated at \$3,823,567.

FIRE ALARM SYSTEMS

SACRAMENTO, Calif.—Police Department suggests to City Manager Jas. Dean the installation of experimental electric traffic signals at school crossing near the Sutter Junior High School.

RESERVOIRS AND DAMS

HEALDSBURG, Sonoma Co., Cal.—City rejects bids to enlarge water reservoir and the work will be done by force account under the supervision of the city engineer. J. Galbraith bid \$3,300, and W. L. Proctor, \$3,654.

BOULDER CITY, Nevada—Contractors who have secured from the Chief Engineer of the Bureau of Reclamation at Denver, Colo., plans and specifications of the Hoover Dam, for which bids are to be opened at Denver on March 4 at 10 A. M., are:

Lynn S. Atkinson, Jr., Edwards & Wilder Bldg., Los Angeles, and 1935 Rpsset Ave., Oakland.
Fisher, Rees, McDonald & Kahn, 1204 Spring Arcade Bldg., Los Angeles.
Merritt-Chapman & Scott Corp., P. O. Box 698, San Pedro, Calif.
Utah Construction Co., Phelan Bldg., San Francisco.
W. A. Bechtel Co., 155 Sansome St., San Francisco.

Kaiser Paving Co., Latham Square Bldg., Oakland
Winston Bros., 520 Alaska Bldg., Seattle, and Minneapolis, Minn.
General Constr. Co., 552 Colman Bldg., Seattle, Wash.
Bates, Rogers & Foley, St Paul, Minn.

Drundel Corp., Baltimore, Md.
The Carleton Co., New York, N. Y.
The Foundation Co., New York, N. Y.
Hydraulic Engineering Co.
Bates & Rogers Constr. Co., Chicago, Illinois.
T. E. Connolly, 461 Market St., San Francisco.
Mittry Bros. Constr. Co., Detweiler Bldg., Los Angeles.
Bent Bros., 418 S. Pecan, Los Angeles.

The Arndell Corp., pier 2, Pratt St., Baltimore.
Mason & Hanger Co., 52 Vanderbilt Ave., New York City.
Underpinning & Foundation Co., Inc., 342 Madison Ave., New York City.
R. S. Morrow & Son, Oamha, Neb.
Joseph Miele Constr. Co., 2261 Millburn Ave., Maplewood, N. J.
Ward Engineering Co., 315 Montgomery St., San Francisco.
Robert E. McKee, 1900 Texas St., El Paso, Texas.
States Corp., 38 S. Dearborn St., Chicago.

Paul J. Moranti, Inc., 115 Broad St., New York CSity.
Allied Engineers, Inc., 20 Pine St., New York City.
W. S. Lee Engineering Corp., Power Bldg., Charlotte, N. C.
A. Phelps & Son, 6319 Michigan Ave., Detroit, Mich.
Spencer, White & Prentiss, Inc., 10 E. 40th St., New York City.
Booth & Flinn Co., 1942 Forbes St., Pittsburgh, Pa.
Parker & Graham, Inc., R. F. D. 2, Slatington, Pa.
The Carleton Co., Inc., Broadway and 42nd St., New York City
Harrison-Wright Co., Charlotte, N. C.
American Foundation, Inc., Mill St., between 2nd and 3rd Sts., Cincinnati, Ohio.

IRVINE, Orange Co., Cal.—Plans for \$750,000 storage dam in Santiago Canyon to be built by the Irvine Co., the John T. Carpenter Water Co. and the Serrano Water Co., have been approved by the State Engineer. A meeting of the boards of the companies will be held on February 2 when a date for bids will probably be set. This dam, which will be 125 ft. in height, will be located at what is known as the "fourth crossing" above the Orange County Park. A Kempker, Hobart Bldg., San Francisco, prepared the plans.

PIPE LINES, WELLS, ETC.

TURLOCK, Stanislaus Co., Calif.—Until February 17, 7:30 P. M., bids will be received by A. P. Ferguson, city clerk, to construct water well. Cert. check 10% payable to clerk required with bid. Specifications on file in office of clerk at 108 North Broadway.

LOS ANGELES, Cal.—Lacy Manufacturing Co., Washington Bldg., submitted low bid to city purchasing agent for dipping riveted steel water pipe as follows:

- (1) 2520 ft. 48-in. x 3/4-in.
(2) 2629 ft. 45-in. x 3/4-in.
(3) 2941 ft. 42-in. x 1/2-in.

The bids were:
Santa Fe Pipe & Supply Co.—(1)—, (2) 35c, (3) 30c; 2% 30 days after date of invoice.

Western Pipe & Steel Co.—(1) Petrolastic 47c, McEverlast 68c, (2) 45c and 65c, (3) 43c and 62c; net

Consolidated Steel Corp.—(1) 35c, (2) 31c, (3) 33c; net.

Kelly Pipe Co.—(1) 50c, (2) 50c, (3) 50c; net.

Lacy Mfg. Co.—(1) 27c, (2) 27c, (3) 27c; net.

OAKLAND, Cal.—Pacific Coast Engineering Co., foot of 14th St., Oakland, at \$4500 awarded contract by City Port Commission to furnish and deliver fifteen 45-ft. lengths of 20-in. welded steel dredge pipe.

HUNTINGTON BEACH, Orange Co., Cal.—Bids for furnishing of approximately 50,000 tons of steel pipe to be used in the construction of a natural gas pipe line from Long Beach to Kettleman Hills, are being taken by the Southern California Edison Co. and the Pacific Lighting Co., joint builders of the line. This pipe line will be approximately 225 miles in length and work is scheduled to start about April 1. The total estimated cost is \$8,000,000.

OAKLAND, Cal.—Until February 2, 4:30 P. M., bids will be received by C. B. Hegardt, secretary, City Port Commission, 424 Oakland Bank Bldg.,

to furnish and deliver 4,000 feet of 20-in. steel dredge pipe. Specifications obtainable from above.

SEWERS AND SEWAGE DISPOSAL PLANTS

OAKLAND, Cal.—Until February 5, 12 noon, bids will be received by F. C. Merritt, city clerk, to construct sewer with appurtenances in Grove Street between 35th and 33rd Streets. Bond of one-fourth of the contract price will be required of successful bidder. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

SAN FRANCISCO.—Board of Public Works has requested the supervisors to adopt an ordinance authorizing the calling of bids to construct sewers in the Golden Gate Heights district, under Contract No. 1. Plans for the work are being completed by the Bureau of Engineering, 3rd floor, City Hall.

OAKLAND, Cal.—Louis J. Cohn, 1 De Haro St., San Francisco, at \$5,283 awarded contract by city council to construct storm sewer with appurtenances in Grove Street between 26th and 28th Streets. Complete list of unit bids received on this project published in issue of January 23.

SPARKS, Nev.—C. C. Taylor, city engineer, has completed plans to install sewage line extension into the west city limits to serve the "Coney Island" district. Estimated cost, \$12,000.

OAKLAND, Calif.—Oakland Sewer Const. Co., 10,003 82nd Ave., Oakland, at \$15,288 awarded contract by city council to construct storm sewers with appurtenances in 29th Street bet. E 24th St. and the U. S. Tidal Canal, to be financed by the General Fund. A complete list of the unit bids received on this project published in issue of January 23.

LOS ANGELES, Cal.—City council has voted to submit to voters either in May or June of this year the \$6,000,000 sewer bond issue which was defeated last year.

LAS VEGAS, Nevada—Butterfield Construction Co., San Diego, at \$4285 submitted low bid to U. S. Bureau of Reclamation to construct water tank foundation in connection with Boulder City water system. Fat Cline, Inc., second low bidder at \$4387.50.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd Floor, City Hall, preparing plans for reinforced concrete sewer across Sunset Blvd. at Lincoln Way. Project will be financed from the Blvd. Fund, Bond issue of 1927.

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.

Phone GAfield 4374

San Francisco

OAKLAND, Cal.—Until February 5, 12 noon, bids will be received by Frank C. Merritt, city clerk, to construct sewer in south half of Sixth St. from Castro street easterly, involving:

- (a) 15 in. ft. 8-in. pipe sewer;
- (b) 1 12-in. lamphole;
- (c) 1 8-in. lamphole;
- (d) 3 wye branches.

Certified check, 10 per cent payable to city required with bid. Plans on file in office of clerk. Walter N. Frickland, city engineer.

SAN MATEO, San Mateo Co., Cal.—City Manager E. W. Wilsey authorized to make an agreement with Burns-McDonnell-Smith Engineering Co., 1021 S. Broadway, Los Angeles, to make surveys for a joint sewage disposal system for San Mateo, Burlingame and Hillsborough. Under a tentative agreement the council suggested such a survey at a cost of \$2,500, San Mateo and Burlingame to pay \$1,000 each, and the town of Hillsborough, \$500.

TULARE, Tulare Co., Calif.—Until February 4, 7:30 P. M., bids will be received by R. M. Berryhill, city manager, to furnish:

3,500 ft. of 18-in. hydraulic concrete sewer pipe. Specifications obtainable from above.

BERKELEY, Alameda Co., Cal.—J. T. Clinch, 869 9th St., Richmond, at \$103.90 awarded contract by city council to construct storm sewer in west side of Garfield School grounds from Hopkins St. southerly. Following is a complete list of bids received:

- (a) 545 lin. ft. 15-in. vitrified pipe;
 - (b) 5 lin. ft. 10-in. do;
 - (c) 20 lin. ft. box culverts;
 - (d) 1 manhole;
 - (e) 2 cu. yds. class "B" concrete.
- J. T. Clinch (a) \$1.63; (b) \$.90; (c) \$2.34; (d) \$.39; (e) \$14.00—\$1033.90.
- Lee J. Immel (a) \$1.75; (b) \$1.50; (c) \$.2; (d) \$.25; (e) \$10—\$1046.25.
- H. Sneed (a) \$1.70; (b) \$1.50; (c) \$2.50; (d) \$.50; (e) \$12—\$1100.

L. J. Gage (a) \$2.95; (b) \$.2; (c) \$6.50; (d) \$.65; (e) \$25—\$1862.75.

Oakland Sewer Construction Co. (a) \$1.91; (b) \$.90; (c) \$.6; (d) \$.40; (e) \$12.50—\$1230.45.

M. Murphy (a) \$2.40; (b) \$1.50; (c) \$.50; (d) \$.50; (e) \$12—\$1510.

T. B. Courtright bid \$1238.

SAN JOSE, Santa Clara Co., Cal.—San Jose Paving Co., San Carlos and Dupont Sts., San Jose, at \$445.65 awarded contract by city council (\$275) to improve portions of 15th St., bet. Vestal Ave. and Rosa St., involving 6-in. sanitary sewer; one c. 1 flushing inlet; 8x6-in. wye branches; 4-in. vitrified sewer lateral connection.

OAKLAND, Cal.—City Council has started proceedings to construct 24-inch sanitary sewer in Grove St., bet. 36th and 38th Sts.; estimated cost \$5600. Frank C. Merritt, city clerk. Walter N. Frickland, city engineer.

SAN JOSE, Santa Clara Co., Cal.—City council petitioned to sewer Illinois Ave., bet. Home and Jerome Sts. Referred to City Engineer Wm. Popp for report.

WATER WORKS

SAN FRANCISCO—Until February 9, 3 P. M., under Proposal 633, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish 2000 ft. 12-inch cast iron pipe, bell and spigot type, cement lined, Class 150 (made in U. S. A.) for San Francisco Water Department. Specifications obtainable from above.

LOS ANGELES, Calif.—California Pipe & Steel Co., 2135 Atlantic Ave., was awarded the contract by the Los Angeles city purchasing agent Jan. 26, for the furnishing wrought steel galvanized pipe, threaded and coupled, for the park department, for use in Elysian Park. Spec. No. 2313. The items are:

- (1) 38,000 ft. 3-in., 1.134 lbs. per ft.;
- (2) 5000 ft. 1-in., 1.684 lbs. per ft.;
- (3) 2000 ft. 2-in., 3.678 lbs. per ft.

Complete list of bids published in issue of January 24.

BOULDER CITY, Nev.—Butterfield Construction Co., 5th St. and University Ave., San Diego, awarded the contract by U. S. Bureau of Reclamation, Los Vegas, Nev., at \$4285 for constructing earthwork, concrete and sand base foundation for metal water tank and an operating road to Boulder City, Spec. No. 2-B.C. The items are:

- (1) 3400 cu. yds. excav., unclass.;
 - (2) 30 cu. yds. concrete;
 - (3) 1000 lbs. reinf. bars;
 - (4) 170 cu. yds. screened sand base.
- (A) Butterfield Const. Co.
(B) Patrick Chlne, Inc.
(C) Desert Construction Co.
(D) E. A. Irish.
- | | (1) | (2) | (3) | (4) |
|----------|-------|---------|-------|----------|
| (A)..... | \$.75 | \$30.00 | \$.07 | \$4.50 |
| (B)..... | .90 | 28.59 | .09 | 2.25 |
| (C)..... | 1.10 | 20.00 | .06 | 3.32 1/2 |
| (D)..... | 1.33 | 17.64 | .063 | 4.98 |

HEALDSBURG, Sonoma Co., Cal.—City trustees have ordered bids received to furnish and install chlorinator in connection with municipal water system. Specifications obtainable from A. B. Stuart, city engineer.

SEATTLE, Wash.—Bjork Brothers, 2427 West 63rd St., Seattle, at approximately \$21,000 awarded contract by Water District No. 35 to construct water distributing system. Miller Engineering Co., engineers, Burke Bldg., Seattle. Type of pipe to be installed not yet determined. Complete list of successful contractors published in issue of January 23.

MARTINEZ, Contra Costa Co., Cal.—Chicago Bridge and Iron Works awarded contract by California Water Service Co. to furnish and erect two riveted steel water storage tanks, one at Walnut Creek and another at Diablo; capacity of 100,000-gals. each.

MILLBRAE, San Mateo Co., Cal.—Millbrae Utilities District votes bonds of \$14,000 to finance construction of domestic water system, involving piping system, storage tank, pumps, hydrants, etc. Line will connect with a main of the Spring Valley System at El Camino Real and Chadbourn Ave. and will terminate at a storage tank on the Mills property.

SAN JOSE, Santa Clara Co., Cal.—Chemical Equipment Co. at \$750 with alternate bid of \$600, submitted low

bid to city council to furnish and install chlorinator for Alum Rock Park natatorium. Taken under advisement.

POMONA, Los Angeles Co., Calif.—City Engineer E. C. Froedich preparing plans for auxiliary pumping plant on E. La Verne Ave., to serve NE section of city. Plant will cost \$3,000, and equipment, \$2,000.

VANCOUVER, B. C.—Vancouver Engineering Works, Ltd., Vancouver, B. C., at \$153,107 submitted low bid to the Greater Vancouver Water Board to furnish electrically welded pipe, as follows: 9000 ft. 36-in., 11,700 ft. 30-in., 6300 ft. 20-in., and 9000 ft. 2-in.

Miles P. Cotton and Son and L. H. Rawlings Co., Vancouver, bidding jointly, submitted low bid for installation of above pipe at \$137,195.

LOS ANGELES, Cal.—Chief Engineer Frank Weymouth of the Metropolitan Water District has been authorized to proceed with studies and surveys of the most suitable location for each of the individual sections of the Colorado River Aqueduct via the Parker Route which was selected recently as the most logical and suitable route under consideration.

COALINGA, Fresno Co., Cal.—Until February 16, 5 p. m., bids will be received by E. J. McCroskey, city clerk, to furnish 5000 feet of 1-inch black merchant pipe. Certified check 10% required with bid.

SEATTLE, Wash., Bjork Bros., 2427 West 63rd St., Seattle, submitted low bid to Water District No. 35 to construct water supply system, involving: 6000 ft. 6-in. main pipe line extending from Beacon Hill to Foster; and distributing system, involving approximately 3 1/2 miles of mains 2-in. to 6-in. diameter. Low bid follows: regular dipped pipe, Dresser Coupling, \$21,173.55; Alt. "A", dipped pipe, welded pipe, welded joints, \$20,257.35; Alt. "B", galvanized pipe, brazed joints, \$20,662.35; Alt. "C", cast iron pipe, lead joints, \$23,295.55. Taken under advisement. Miller Engineering Co., engineers, Burke Bldg., Seattle.

LOS ANGELES, Cal.—Nineteen bids were submitted to the city purchasing agent Jan. 21 for furnishing wrought steel galvanized pipe, threaded and coupled, for the park department, for use in Elysian Park; specifications No. 2313. The items are:

- (1) 38,000 ft. 3-in., 1.134 lbs. per ft.;
- (2) 5000 ft. 1-in., 1.684 lbs. per ft.;
- (3) 2000 ft. 2-in., 3.678 lbs. per ft.;
- Alt., 2000 ft. 2-in. pipe, 3.75 lbs. per ft.

The bidders were: Midwest Pipe & Supply Co., Fitzpatrick & Locke, Pacific Pipe Co., Thos. Haverty Co., Pacific Pipe and Supply Co., Mel O. Haaldeman, Whiting-Mead Co., Smith

DO NOT RISK AN EXPERIMENT

SPECIFY -- USE

Timpie Hydrated Line

STRONG—PURE—PLASTIC

Ten Years of Uniformly Satisfactory Experience in High

Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

Sold by Representative Dealers Everywhere

Booth Usher Co., Plant Rose Co., Inc., Santa Fe Pipe & Supply Co., Crane Co., Ducommun Corp., Union Howe, and Metal Co., Calif. Pipe and Supply Co., Griffith Pipe & Supply Co., Grinnell Co., Calif. Hdwe. Co., and Kelly Pipe Co.

Prices, unless otherwise noted below, were: Delivery from stock, (1a) \$10.34; (1b) \$23.51; (1c) \$24.19; shipment from mills, (1a) \$5.64; (1b) \$8.61; (1c) \$18.75; alt. (1c) \$19.88.

The exceptions were:
Midwest Pipe and Supply Co., (1b) \$23.13; alt. (1c) mill delivery, \$18.55.
Santa Fe Pipe & Supply Co., 6-day rail shipment from mills, (1a) \$6.57; (1b) \$9.38; (1c) \$20.42; (1c) alt. \$21.55.
Smith Booth Usher Co., mill delivery item (1a) alt. \$6.56.

SAN FRANCISCO—Until February 2 3 P. M., under Proposal No. 682, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish for San Francisco Water Department, standard weight galvanized steel pipe, made in the U. S. A., in random lengths and coupled, for mill shipment l.o.b. 639 Bryant St., San Francisco:

(a) 35,000 cu. ft. 3/4-inch.
(b) 3,000 cu. ft. 1-inch.
Specifications obtainable from City Purchasing Agent.

PLAYGROUNDS & PARKS

SACRAMENTO, Cal.—City Manager Jas. Dean announces plans are being prepared for construction of a new tennis court in Southside Park. Will have asphaltoc pavement. The 1931budget provides \$1200 for this work.

STREETS AND HIGHWAYS

STOCKTON, San Joaquin Co., Cal.—Perlera and Reed, Stockton, Cal., \$6,826.25 awarded contract by county supervisors to improve the W. C. Miller Road from Acampo Road to Peltier Road. Project involves:

- (a) 1,600 cu. yds. grading;
- (b) 3,800 tons base course;
- (c) 210 tons crushed rock;
- (d) 92 tons rock chips;
- (e) 75 tons pea gravel;
- (f) 50 bbls. fuel oil;
- (g) 15 tons asphaltic oil;
- (h) 1 pipe to be installed.

Complete list of bids follows:
Periera & Reed.....\$ 6,826
Lilly, Willard & Biasotti..... 6,915
George French, Jr..... 7,122
Gannon & McCarty..... 8,204
Friederickson Bros.....10,853

SAN JOAQUIN COUNTY, Cal.—Sub-contractor wants to give figures on various items on the Stockton-Lodi Highway job. Address Box 853, Sacramento.

STOCKTON, San Joaquin Co., Cal.—Until February 16, 10 A. M., bids will be received by Eugene D. Graham, county clerk, to improve the Farmington-Bellota Road in Road District No. 1.

Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans on file in office of clerk. Julius Manthey, county surveyor.

SAN FRANCISCO—Chas. L. Harney, Call Bldg., at \$54,062 awarded contract by Board of Public Works to improve Montgomery Street between Union and Greenwich Sts.; Alta St. from Montgomery St. to a point 203-ft. easterly; Filbert St. from Montgomery St. to a point 16-ft. westerly and from Montgomery St. to a point 22-ft. easterly; Greenwich Street from Montgomery St. to a point 88-ft. westerly, involving grading, paving, curbs, walks, etc. Complete list of unit bids

received on this project published in issue of January 23.

STOCKTON, San Joaquin Co., Cal.—George French, Jr., P. O. Box 675, Stockton, at \$12,350 awarded contract by county supervisors to improve Harney Lane between Lower Sacramento Road and Cherokee Lane. Project involves:

- (a) 4,000 cu. yds. grading;
- (b) 6,400 tons base course;
- (c) 690 tons crushed rock;
- (d) 260 tons rock chips;
- (e) 212 tons pea gravel;
- (f) 210 bbls. fuel oil;
- (g) 50 tons asphaltic oil.

Complete list of bids follows:
George French, Jr.....\$12,350
C. W. Wood..... 12,487
Lilly, Willard & Biasotti..... 12,753
Periera & Reed..... 13,111
Gannon & McCarty..... 15,695
Delta Dredging Co..... 16,080
George Finnell..... 16,146
Friederickson Bros..... 18,229

OAKLAND, Cal.—Until February 2, 4:30 P. M., bids will be received by G. B. Hegardt, secretary, City Port Commission, 424 Oakland Bank Bldg., for bituminous surface paving on extension of 14th St. Wharf. Project involves approx. 11,000 sq. ft. of pavement. Spec. obtainable from secretary.

OAKLAND, Calif.—County Surveyor George A. Posey making surveys for new road to connect B Street, Hayward, with the highway in Dublin Canyon.

VENTURA, Ventura Co., Cal.—Until 10 A. M., Feb. 17, bids will be received by county supervisors for grading and constructing culverts on approximately one mile of the Potrero Road, under Cash Contract No. 720, involving:

- (1) 11,450 cu. yds. earthwork excav.
 - (2) 1800 lin. ft. turnpike grading;
 - (3) 40 ft. 24-in. corr. iron pipe culverts;
 - (4) 40 ft. 18-in. corr. iron pipe culverts;
 - (5) 70 ft. 6-in. corr. iron pipe culverts;
 - (6) 5 cu. yds. class A concrete;
 - (7) 520 lbs. reinf. steel;
 - (8) 4.5 M. ft. B. M. redwood in structures;
 - (9) 3 M. ft. B. M. O. P in structures
- The board of supervisors reserves the right to extend the contract on Potrero Road at the unit prices submitted in the bid. Certified check 10%. Plans obtainable from county surveyor, Chas W. Pettit, L. E. Hallowell, county clerk.

PALO ALTO, Santa Clara Co., Cal.—Until February 9, 7:30 P. M., bids will be received by E. L. Beach, city clerk, (948) to improve Palo Alto Ave., Hale, Pope and Dana Sts., Forest Court, Addison and Harker Aves., Webster St., Embarcadero Road, Lane "B" East, Santa Rita Ave., Sherman Ave., Princeton, Oberlin and Harvard Sts., involving construction of vit. sewer mains and connections, brick manholes, c. i. water mains and galv. iron water pipe connections, fire hydrants, gas mains, concrete storm sewer pipe, cem. conc. pavement, sidewalks, etc. 1911 Act. Certified check 10% payable to city required with bid. Plans obtainable from J. F. Bybee Jr., city engineer.

SAN LUIS OLSIPO, Cal.—Formation of a joint highway district to construct the proposed Cottonwood Pass road will be placed before the county supervisors today. The road, which is planned to connect the upper part of the San Joaquin Valley with San

Luis Obispo and the coast will be a joint project of San Luis Obispo, Kings, Kern and Fresno counties. The estimated cost, including an oiled top dressing, is about \$300,000.

FRESNO, Fresno Co., Cal.—County supervisors have ordered County Surveyor Chris P. Jensen to prepare specifications for paving of 0.75 mile of highway near Riverdale, including provisions enabling the Permanite Paving Co. to bid on the work.

SAN JOAQUIN COUNTY, Cal.—As previously reported, bids will be received February 18, by State Highway Commission to grade and pave with cement concrete, 7.7 miles between Stockton and 0.5 miles north of the Houston School. Project involves:

- (1) 455 each, trees removed and disposed of;
 - (2) 43,300 cu. yds. rdwy excav. without class;
 - (3) 345,000 sta. yds. overhaul;
 - (4) 38,600 cu. yds. imported borrow;
 - (5) 3540 cu. yds. structure excavation
 - (6) 2100 cu. yds. salvage surfacing (subbase);
 - (7) 4250 tons untreated crushed gravel or stone surfacing;
 - (8) 4600 cu. yds. cushion course;
 - (9) 2100 tons bitum. treated crushed gravel or stone surfacing;
 - (10) 58,450 sq. yds. subgrade for pavement;
 - (11) 20,625 cu. yds. class A Portland cement concrete (pavement);
 - (12) 35 cu. yds. class A Portland cement concrete (structures);
 - (13) 479,600 lbs. bar reinf. steel (pavement and structures);
 - (14) 2426 lin. ft. 12-in. corr. metal pipe;
 - (15) 2772 lin. ft. 18-in. corr. metal pipe;
 - (16) 530 lin. ft. corr. metal pipe (clean and relay);
 - (17) 31 each, moving and resetting headwalls;
 - (18) 520 lin. ft. salvaging existing culverts;
 - (19) 2.15 miles moving and resetting property fences;
 - (20) 0.03 mile new hog-tight property fence;
 - (21) 296 cu. yds. removing and disposing of existing pavement and structures;
 - (22) 3374 lbs. heavy fuel oil (shoulders and road approaches);
 - (23) 410 stations finishing roadway;
 - (24) 70 each, monuments complete in place.
- The State will furnish corrugated metal pipe and cast steel frames, and covers for road inlets.

SANTA CLARA, Santa Clara Co., Cal.—Until February 2, 8 P. M., bids will be received by A. J. Cronin, city clerk, to improve (22-D) Campbell Ave. and Belomy St., involving:

- (1) 75,000 sq. ft. 6-in. asphalt paving;
- (2) 90 sq. ft. concrete gutter;
- (3) 100 lin. ft. concrete curb;
- (4) 6000 sq. ft. cement sidewalk.

Certified check 10% payable to city required with bid. Plans on file in office of clerk. George Sullivan, city engineer.

SANTA CRUZ, Santa Cruz Co., Cal.—Until February 7, 11 A. M., bids will be received by H. E. Miller, county clerk, to improve Section 111, Mount Hermon Road in San Lorenzo Road District. Certified check 10% required with bid. Plans obtainable from County Surveyor Lloyd Bowman.

SANTA BARBARA, Cal.—City Engineer E. B. Brown completes specifications to improve East Canyon Ferido St., involving approx. 7 blocks, curbs, walks; estimated cost, \$58,000.

SAN FRANCISCO.—H. Armstrong, at \$773.16 submitted low bid to Board of Public Works to improve Bradford St. bet. Cortland and Pawhattan Aves., involving (a) 167 lin. ft. conc. curbs, \$1.00; (b) 25 lin. ft. 6-in. V. C. P. side sewers, \$1.00; (c) 2,604 sq. ft. 6-in. Class No. E concrete pavement, \$2.25. M. Bertolino, only other bidder, at \$955.14, (a) \$1.10, (b) \$2; (c) \$36.

SAN FRANCISCO.—M. Bertolino, 23 Shotwell St., at \$3,927.60, submitted low bid to Board of Public Works to improve Campbell Ave. bet. Alpha and Rutland Sts., involving (a) 409 lin. ft. conc. curb, \$1.20; (b) 2,586 sq. ft. cement sidewalk, \$1.16; (c) 15 6-in. V. C. P. side sewer, \$35; (d) 5,237 sq. ft. asphalt. conc. pavement, \$40; (e) 900 sq. ft. 6-in. Class E concrete pavement, \$34.

Federal Construction Co., only other bidder, at (a) \$1.50; (b) \$20; (c) \$45; (d) \$47; (e) \$46. Total \$4,803.35.

SAN FRANCISCO.—Fay Improvement Co., Phelan Bldg., at \$2,423.96, submitted only bid to Board of Public Works to improve Duncan St. bet. Douglas St. and Hoffman Ave., involving:

- 204 lin. ft. conc. curb, \$1.48.
- 80 lin. ft. V. C. P. side sewers, \$1.89.
- 4,072 sq. ft. asphalt. conc. pavement, \$484.

SAN JOAQUIN COUNTY, Cal.—Until February 18, 2 p. m., bids will be received by State Highway Commission to grade and pave with Portland cement concrete, 7.7 miles between Stockton and one-half mile north of Houston School.

See call for bids under official proposal section in this issue.

ALAMEDA, Alameda Co., Cal.—Until February 17, 8 p. m., bids will be received by W. E. Varcoe, city clerk, (96) to improve Third St. bet. Pacific Ave. and Maple St., involving grading; conc. curbs, gutters, walks; corrugated iron culverts; 6-in. oil macedadam pavement. 1911 Act. Quantities of materials involved will be published shortly. Certified check, 10 per cent payable to city, required with bid. Plans on file in office of clerk. Burnett Hamilton, city engineer.

SAN RAFAEL, Marin Co., Cal.—County supervisors start proceedings under County Imp. Act. 1921 to improve Red Hill county road from south corporate boundary line of the town of Ross, south to intersection thereof with Green Brae Road, Green Brae Road from Red Hill County Road to McAllister Ave., involving hydraulic cement concrete curbs and gutters in both sides of thoroughfares. Rodney Messner, county surveyor.

FRESNO, Fresno Co., Cal.—As previously reported, bids will be received January 29, 10:30 a. m., by H. S. Foster, city clerk, (108-D) to improve Terrace Ave. bet. Palm and Wilson Aves. Project involves:

- (1) 45,783 sq. ft. grading;
- (2) 22,511 sq. ft. asphalt paving;
- (3) 9789 sq. ft. sidewalk;
- (4) 1968 lin. ft. concrete curb;
- (5) 2311 sq. ft. concrete gutter;
- (6) 48 lin. ft. 12-in. culvert;
- (7) 114 lin. ft. 18-in. culvert;
- (8) 4 culvert manholes.

1911 Act. Certified check 10% payable to city, required with bid. Plans on file in office of clerk. C. C. Valkenburg, city engineer.

OAKLAND, Cal.—Until February 5, 12 noon, bids will be received by Frank C. Merritt, city clerk, to improve Johnston Drive from Estates Drive southeasterly. Project involves:

- (1) 6246 cu. yds. excavation;
- (2) 1388 lin. ft. concrete curb;
- (3) 23,780 sq. ft. concrete pavement;
- (4) 4854 sq. ft. cement sidewalks.

1911 Act. Certified check 10% payable to city required. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

OAKLAND, Cal.—Until February 5, 12 noon, bids will be received by Frank C. Merritt City Clerk to construct cement sidewalks in portions of 92nd Ave., bet. A and G Sts., 1911 Act. Certified check 10% payable to city required with bid. Plans obtainable from clerk. Walter N. Frickstad, city engineer.

SAN FRANCISCO.—Until February 4, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve crossing of Oxford and Silliman Sts., involving:

- (a) 63 lin. ft. armored concrete curb;
- (b) 3 brick catchbasins;
- (c) 90 lin. ft. 10-in. V.C.P. culvert;
- (d) 284 sq. ft. 1-course concrete sidewalks.

(e) 3236 sq. ft. asphalt concrete pavement, 2-in. asphalt conc. surface on 6-in. Class "F" concrete base.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN FRANCISCO.—Until February 4, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Madison St. bet. Burrows and Felton Sts., (where not), involving:

- (a) 125 lin. ft. armored concrete curb
- (b) 100 lin. ft. 6-in. V.C.P. side sewer;
- (c) 2495 sq. ft. asphalt concrete pavement, 1½-in. asphalt conc. surface on 6-in. Class "F" concrete base.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall

SAN MATEO, San Mateo Co., Cal.—City Manager E. P. Wisley completes plans to improve Poplar St. from Delaware to Humboldt St., and along south side of San Mateo High School grounds; estimated cost \$30,000. Project involves:

- (a) 2,000 cu. yds. grading;
- (b) 130 lin. ft. 4-in. vit. pipe sewers;
- (c) 130 do 6-in. do do;
- (d) 1,400 lin. ft. concrete curb;
- (e) 14,500 sq. ft. cement sidewalks;
- (f) 1,402 lin. ft. 2x5 ft. reinf. concrete box culvert;

- (g) 7 catchbasins;
- (h) 50,000 sq. ft. 6-in.-8-in. concrete pavement;
- (i) 50 ft. 15-in. concrete pipe sewer
- (j) 90 ft. 12-in. do do;
- (k) 1 special catchbasin.

MARCH FIELD, Riverside Co., Cal.—Osborn Co., 450 California Terrace, Pasadena, at approx. \$100,000 awarded contract by Quartermaster, March Field, for paving aprons fronting hangars at March Field, involving Colas base with Amestite surface; 1½c sq. ft.

SANTA ANA, Orange Co., Cal.—Until Feb. 3, 11 A. M., bids will be received by J. M. Backs, county clerk, to furnish cement in connection with

widening Whitaker Ave. at Buena Pk., involving:

- (1) 10,500 bbls. cement in cloth or paper sacks, f.o.b. Buena Park;
- (2) 7000 bbls. cement in cloth or paper sacks, f.o.b. Westminster.

BOULDER CITY, Nevada.—General Construction Co., Seattle, Washington, awarded contract by U. S. Bureau of Reclamation at \$329,917 for constructing the Hoover Dam Highway, bet. Boulder City and the site of the Hoover Dam, about seven miles in length, and located 25 miles SE of Las Vegas. The bid is based on constructing a highway 22 ft. in width.

R. G. LeTourneau Mfg. Co., Stockton, has been awarded a sub-contract by the General Construction Co. for 3 miles of this road from Las Vegas to the dam site, involving:

- 415,720 cu. yds. excavation;
- 249,000 sta. yds. overhaul;
- 5,600 sq. yds. dry rock paving;
- 5,000 cu. yds. concrete paving;
- 200 cu. yds. backfill.

SANTA CLARA, Santa Clara Co., Cal.—Until February 2, 8 P. M., bids will be received by A. J. Cronin, city clerk, to improve (22-D) Harrison, Lewis, Scott and other streets, involving:

- (1) 516,000 sq. ft. 5-in. asphalt paving;
- (2) 19,000 sq. ft. 6-in. asphalt paving;
- (3) 22,500 sq. ft. concrete gutter;
- (4) 13,500 lin. ft. concrete curbs;
- (5) 38,000 sq. ft. cement sidewalk;
- (6) 6500 sq. ft. conc. driveways;
- (7) 4000 lin. ft. 4-in. vit. pipe sewers;
- (8) 3700 lin. ft. 6-in. do;
- (9) 80 wye branches;
- (10) 3 brick manholes.

Certified check 10% payable to city required with bid. Plans on file in office of clerk. George Sullivan, city engineer.

SANTA CLARA, Santa Clara Co., Cal.—Until February 2, 8 P. M., bids will be received by A. J. Cronin, city clerk, to improve Lexington St., involving:

- (1) 64,000 sq. ft. 5-in. asphalt paving;
- (2) 126,000 sq. ft. 6-in. asphalt paving;
- (3) 200 tons leveling course asphalt;
- (4) 5300 sq. ft. conc. gutter;
- (5) 3500 lin. ft. concrete curb;
- (6) 5500 sq. ft. cement sidewalk;
- (7) 2500 sq. ft. cement sidewalk;
- (8) 800 lin. ft. 4-in. vitrified sewer;
- (9) 2500 lin. ft. 6-in. do;
- (10) 25 wyes;
- (11) 9 brick manholes.

Certified check 10% payable to city required with bid. Plans on file in office of clerk. George Sullivan, city engineer.

SANTA CLARA, Santa Clara Co., Cal.—Until February 2, 8 P. M., bids will be received by A. J. Cronin, city clerk, to improve (21-D) Santa Clara, Market and other streets, involving:

- (1) 491,000 sq. ft. 2-in. asphalt surf.;
- (2) 491,000 sq. ft. 3-in. asphalt base;
- (3) 5400 sq. ft. 5-in. conc. paving;
- (4) 13,000 ft. concrete gutter;
- (5) 8000 lin. ft. concrete curb;
- (6) 12,500 sq. ft. cement sidewalk;
- (7) 3500 lin. ft. 4-in. vit. pipe sewers;
- (8) 3500 lin. ft. 6-in. do;
- (9) 1500 lin. ft. 8-in. do;
- (10) 90 wye branches;
- (11) 8 brick manholes.

Certified check 10% payable to city required with bid. Plans on file in office of clerk. George Sullivan, city engineer.

Herbert A. Hamm, who has been engaged in the building industry for the past 18 years, has severed his connection with the firm of Hamm, Grant & Bruner of Los Angeles, and will continue in the building business under his own name. Mr. Hamm has established temporary offices at 2145 Sacramento St., Los Angeles.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
74	Heyman	Owner	8000
75	Samuelson	Owner	6400
76	S F Bank	Heyer	10000
77	Joseclyn	Owner	2000
78	Horn	Owner	3500
79	McCarthy	Owner	3750
80	Alger	Duerner	3000
81	Meyer Bros	Owner	4000
82	Sherman	Mabey	1000
83	Westlund	Owner	3200
84	St. Mary's	Johnson	5000
85	Dodge	Landgren	3000
86	Ellingson	Owner	1500
87	Hausen	Rasmussen	3800
88	Keef	Standard	4000
89	O'Connor	Owner	3000
90	Perasso	Owner	4900
91	Stich	Owner	4500
92	Guillermon	Meinberger	5000
93	Steinmauer	Owner	8500
94	Southern	Owner	1600

DWELLINGS

(74) E 17th AVE. 95 N Pacheco; two one-story and basement frame dwellings.

Owner and Builder—Heyman Bros., 742 Market St.
Plans by Owner. each \$4000

DWELLINGS

(75) N TEDDY 100 E Delta; two 1-story and basement frame dwellings.

Owner and Builder—A. M. Samuelson, 901 Geneva Ave.
Plans by W. R. Weisheimer, 924 Prague St. each \$3200

ALTERATIONS

(76) 550 CALIFORNIA ST.; alterations for banking room.

Owner—The San Francisco Bank, 536 California St.
Architect—Ward & Blohne, 24 California Street.
Contractor—C. W. Heyer, Jr., Mills Bldg. \$10,000

ALTERATIONS

(77) SE PACIFIC and McCormick St.; alterations to raise dwelling for store.

Owner—A. E. Jocelyn, 1447 Pacific St.
Plans by Owner. \$2000

DWELLING

(78) W EDGAR PLACE 125 S Bruce; one-story and basement frame dwelling.

Owner and Builder—J. Horn, 5044 Mission St.
Architect—Not Given. \$3500

DWELLING

(79) W 32rd AVE. 200 S Judah; one-story and basement frame dwelling.

Owner and Builder—J. E. McCarthy, 1342 Funston Ave.
Plans by Owner. \$3750

DWELLING

(80) E 24th AVENUE 150 S Moraga; one-story and basement frame dwelling.

Owner—E. H. and C. M. Alger, 26 Edinburgh St.
Plans by Mr. Duerner.
Contractor—J. C. Duerner, 26 Edinburgh St. \$2000

DWELLINGS

(81) N CHARES 124 S Evelyn; two one-story and basement frame dwellings.

Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Burks, 727 Portola Dr. \$4000

ALTERATIONS

(82) 2501 GREEN ST.; alterations to studio.

Owner—Mrs. H. M. Sherman, 2 S O 1 Green St.
Architect—W. W. Wurster, 260 California St.
Contractor—A. Mahey, 230 5th St. \$1000

DWELLING

(83) N INGERSON bet. Third and Jennings; one-story and basement frame dwelling.

Owners and Builders—C. H. Westlund and F. Johnson, 123 Howard St.
Plans by Owners. \$3200

DWELLING

(84) N BENTON 239 W Gueburn; one-story and basement frame dwelling.

Owner—St. Mary's Park, 3901 Mission Street.
Plans by D. E. Jaekle, Call Bldg.
Contractor—A. R. Johnson, 3901 Mission St. \$5000

SERVICE STATION

(85) SW LARKIN and Pacific; one-story frame comfort station and 1-story class B service station.

Owner—K. M. Dodge.
Plans by D. E. Jaekle, 744 Call Bldg.
Contractor—A. C. Lindgren, 64 Ramona Ave. \$3000

SHOP

(86) W NATOMA 155 S 14th St.; 1-story frame shop.

Owner—E. Ellingson, 35 Liberty St.
Architect—Not Given. \$1500

DWELLING

(87) N DWIGHT 89 E Girard; one-story and basement frame dwelling.

Owner—N. J. Hausen, 50 Dwight St.
Architect—Not Given.
Contractor—L. Rasmussen, 42 Dwight Street. \$3800

DWELLING

(88) E 17th AVE. 175 S Vicente; 1-story and basement frame dwelling.

Owner—J. D. and A. Keef, care 218 Castaneda.
Plans by Contractor.
Contractor—Standard Bldg. Co., 2 1/8 Castaneda. \$4000

DWELLING

(89) W 29th AVE. 125 N Lawton; 1-story and basement frame dwelling.

Owner—D. and M. O'Connor, 1367 25th Avenue.
Plans by M. A. Callagy, 2674 16th Ave. \$3000

DWELLING

(90) S SCHERWIN 97 S Sunnyvale; one-story and basement frame dwelling.

Owner and Builder—A. Perasso, 720 Delta St.
Plans by Owner. \$4000

DWELLING

(91) E 19th AVE. 31 S Santiago; 1-story and basement frame dwelling.

Owner—F. M. Stich, 1155 Taraval St.
Plans by G. M. Cantrell. \$3500

DWELLING

(92) W 27th AVE. 286 N Lake St.; one-story, basement and airplane room dwelling.

Owner—R. Guillermon, 702 11th Ave.
Plans by C. Gassion, Shreve Bldg.
Contractor—H. S. Meinberger, 343 4th Street. \$5000

FLATS

(93) E BAKER ST. 50 N Lombard; two-story and basement frame (2) flats.

Owner—S. Steinmauer, 755 27th Ave.
Architect—S. Colton, 3020 Balboa St. \$5500

SHELTERS

(94) ACROSS FIFTH ST. bet. King and Berry Sts.; two 1-story steel frame shelters.

Owner—Southern Pacific Co., 65 Market Street.
Architect—J. A. Christle, 65 Market Street. each \$5000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
20	Bekins	McDonald	27000
21	Shreve	Zelinsky	50
22	P G & E	Lowrie	
23	Price	Koenig	10812
24	Regents	Hannah	23753

ALTERATIONS & ADDITIONS

(20) 190 OTIS Street and adjoining property having frontage of 50 on Stevenson; alterations and additions to building.

Owner—Bekins Van & Storage Co., premises.
Architect—F. E. Barton.
Contractor—MacDonald & Kahn, Ltd., Financial Center Bldg.

Filed Jan. 23, '31. Dated Jan. 22, '31.
1st of each month.....75%
Usual 35 days.....25%

TOTAL COST, \$27,000
Limit, 60 days. Plans and Spec. filed.

PAINTING

(21) 1221 POST ST.; painting.
Owner—Shreve & Barber, Ltd., premises.

Architect—Not Given.
Contractor—A. A. Zelinsky & Co., 4420 California St.

Filed Jan. 23, '31. Dated Jan. 22, '31.
15th of each month.....75%
Usual 35 days.....25%

TOTAL COST, \$34,000
Limit, Feb. 11, 1931.

CAPITAL CITY TILE

COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

PAVEMENT

(22) SAN FRANCISCO; replacing pavements in streets, alleys and sidewalks opened by P. G. & E. Owner—P. G. & E. Co. Engineer—Not Given. Contractor—Lowrie Paving Co. Filed Jan. 23, '31. Dated Jan. 1, '31. Contract to hold for one year. First payment on or before 15th of month following completion. TOTAL COST not given. Bond, \$15,000. Sureties, Continental Casualty Co. Spec. filed.

ADDITION, ETC.

(23) E TENTH ST, 125 N Polson; wreck present framed building and erection and addition of an addition of 50x100-ft. and alterations to adjoining building. Owner—C. W. Price Pump & Engine Company. Architect—E. A. Neumarkel, 340 Kearny Street. Contractor—C. J. V. Koenig & Son, 520 Church St. Filed and Dated Jan. 24, '31. Grading completed and new floor laid in old building.....\$1000 Brick work done to height of steel trusses and trusses set. 3553 Completion and acceptance..... 3553 Usual 35 days..... 2706 TOTAL COST, \$10,812 Bond, \$5500. Sureties, National Surety Co. Limit, 50 days. Plans & Spec. filed.

POWER PLANT

(24) UNIVERSITY OF CALIFORNIA (S. F. Branch); all work on power plant building. Owner—Regents of the University of California. Architect—Wm. C. Hays, Crocker 1st National Bank Bldg. Contractor—J. S. Hannah, 268 Market Street. Filed Jan. 27, '31. Dated Jan. 21, '31. Let of each month..... 75% Usual 35 days..... 25% TOTAL COST, \$23,753 Bond, \$12,000. Sureties, UNITED STATES Fidelity & Guaranty Co. Forfeit, \$50. Limit, 120 days. Plans and Spec. filed.

CONTRACT EXTENSION OF TIME

San Francisco County

EXTEND SMOKESTACK
LOCATION OMITTED; extension of smokestack of power house for general hospital. Owner—Southern Pacific Company. Surety, U. S. Guarantee Co. Architect—Not Given. Contractor—Ocean Shore Iron Works. Time extended to Jan. 31, 1931.

COMPLETION NOTICES

San Francisco County

Recorded Accepted
Jan 27, 1931—S CALIFORNIA ST and E Joyce St 77-6 E 60 N 8-0 E 20 N 85-9 W 50, Marian Realty Co Ltd to Mission Concrete Co..... January 27, 1931
Jan 27, 1931—S FILBERT ST 100 E Divisadero E 63 x S 137-6. Betsy A Holden to whom it may concern..... January 13, 1931
Jan 27, 1931—E 23rd AVE 150 S Moraga S 25 x E 120. R W Hancock to whom it may concern..... January 22, 1931
Jan 27, 1931—W 33rd AVE 275 S Ulloa S 25 x W 120. Frederick F Ballet to whom it may concern..... January 19, 1931
Jan 27, 1931—NW CASA and Retro Way 92x92. Chas P Murphy to whom it may concern..... Jan 27, 1931
Jan 26, 1931—N ALVARADO 155 W Sanchez 25x100. P J and Mary Magee to W C Parker. Jan 26, 1931
Jan 26, 1931—W LOUISBERG and

Niagara Ave SW 40 x NW 103-6. M Graham and Phillip Miller as Phillip Miller & Son..... Jan 27, 1931
Jan 27, 1931—LOT 12 BLK 2277, Mt Davidson Manor. Castle Bldg Co to Henry Horn..... January 21, 1931
Jan 23, 1931—SE HEARST AVE and Congo S 25 x E 100 blk 43 Sunny-side John D McCarthy to Wm Duerner Jr..... January 19, 1931
Jan 23, 1931—164 VALLEY ST. Chas and Mrs F B Rockwell to Henry Erickson..... January 22, 1931
Jan 22, 1931—W 28th AVE 65-10-10 N 25 x W 32-6 OL Hill Samuel and Minnie Douglas to whom it may concern..... January 17, 1931
Jan 22, 1931—2378 31st AVE E 31st AVE 100 N Taraval St 25x100. G Goldstein and C A Eggers to H Erickson..... January 22, 1931
Jan 22, 1931—NW IRVING and 15th AVE W 40 x N 100. Irving Theatre & Realty Co to whom it may concern..... January 21, 1931
Jan 22, 1931—NE AMAZON A 22 77 SE London Ekd Hd. Frank L McAfee to whom it may concern..... January 19, 1931
Jan 22, 1931—S F BAY bet Goat Island and Key Route Mole. Dept of Public Works to whom it may concern to Duncanson-Hartelton Co Inc..... January 13, 1931

Jan 21, 1931—LOT 4 BLK 2871 Subdiv 4 Miraloma Park. Meyer Eros to whom it may concern..... January 20, 1931
Jan 21, 1931—SE FOLSOM ST 65-6 NE 5th NE 34-6 SE 165 SW 25 NW 50 NE 6-in NW 25 SW 10 NW 90. The Lurie Co to Louis J Cohn..... January 15, 1931
Jan 21, 1931—E 28th AVE 100 N Kirkham N 25 x E 120. Frank J and Hanna Geheran to whom it may concern..... January 21, 1931
Jan 21, 1931—NW TARA A 22 77 Niagara AVE SW 30 NW 103-6. Marshall T Struthers to Gerald J Conway..... January 20, 1931
Jan 21, 1931—LOTS 33 and 36 BLK 22 Sunnyside. A M Godin to whom it may concern..... Jan 21, 1931
Jan 21, 1931—SW FRONT and Jackson Sts 91-10-10 on Front and 138-5 on Jackson. Cole H Baker to Ira Coburn..... January 10, 1931

LIENS FILED

San Francisco County

Jan 27, 1931—E HAMILTON 200 S Felton S 25 x E 120. San Bruno Ave Feed & Fuel Co vs Wm F Burnell..... \$130.15
Jan 27, 1931—SE WOOLSEY ST 90 SW Somerset St SW 60 x SE 100. Cobbledick-Kihbe Glass Co vs S Cobbledick..... \$92.25
Jan 27, 1931—E HAMILTON 200 S Felton Bk 35 R R Ave Hd Assn Tract. H W Larsen as S F Hdwe Co vs Wm F Burnell..... \$108.25
Jan 26, 1931—SE WOOLSEY 90 and 120 SW Somerset SW 30 x SE 100. H W Larsen as S F Hardware Co vs Serge Makaren..... \$119.27
Jan 16, 1931—NW HOWTH 25 NE Mt Vernon NE 25 x NW 90. P Sabella as Acme Floor Co vs Arthur and Catherine Dockwell..... \$150
Jan 26, 1931—SW GREED and Leavenworth W 60 x S 87-6. North Beach Auto Hauling Co vs Consolidated Properties, Ltd..... \$1500
Jan 24, 1931—N WASHINGTON ST 106-3 1/2 E Lyon then along North Washington 24-11 1/4 N 127-8 1/4 W 25 S 102-8 1/4 to beg. E Lombardi as Sunset Concrete Co vs Clyde A Pearce and J Lund..... \$30
Jan 22, 1931—SE WOOLSEY 90 and 120 SW Somerset SW 30 x SE 100. J I Meeks vs Serge Makaren..... \$165
Jan 22, 1931—S PINE ST 112-6 W Gough W 25 x S 120. City Sash & Door Co vs W C Boswell and A D Hopper..... \$35.53

Jan 22, 1931—N CLAY 112-6 West Franklin W 93-9 W 127-8 1/2 E 68-9 SE 35-4 1/2 S 102-5 1/2. Geo Campbell vs Arthur J and Gertrude A Falvey, Mildred W Hartman. \$638
Jan 21, 1931—SE WOOLSEY 90 SW Somerset SW 20 x SE 100. Edw Hauser as Standard Shade Co vs Serge Maharen..... \$17.50
Jan 21, 1931—N WASHINGTON 106-3 1/2 E Lyon E 24-11 1/4 x N 127-8 1/4. A L Stockton Lumber Co vs Clyde A Pearce, Geo E Lund..... \$188.40

RELEASE OF LIENS

San Francisco County

Recorded Amount
Jan 26, 1931—SV WILDER AVE 325-77 SE Diamond SE 25 x NW 100 ptn blk 4 Fmt Exten Hd R G Negerhorn & Son to J J and Josephine Hurly..... \$198.59
Jan 22, 1931—SE MISSION 150 NE Russia AVE E 100 x SE 108-6-8 H McCallum to J Hill, A B and V B Frank..... \$178.62

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
70	Crook	Owner	2500
71	Kraft	Owner	6000
72	Thompson	Lantry	1000
73	Quenzel	Owner	4000
74	Law	Nylander	3000
75	St Mary	Owner	16000
76	C J Smith	Dolan	4500
77	Dott	Rose	1000
78	Van Ness	Owner	2250
79	Tyre	Cone	8000
80	San Pablo	Owner	1000
81	Derry	Owner	4000
82	Fulley	Owner	1000
83	Schroeder	Owner	3500
84	Thyson	Nordstrum	7000
85	Baker	Owner	4500
86	McGinley	Knight	3500
87	Fox	Fox	2000
89	Replogle	Beadel	2000
90	Jarvis	Wickman	5000
91	Mason	Dolan	1400
92	Bresta	Gossett	5000
93	Elgarten	Owner	4000 1/2
94	Wheeler	Owner	4750

DWELLING
(70) No. 1122 CORNELL AVE., ALBANY. Five-room dwelling. Owner—Miss Harriet V. Crook, 1122 Cornell Ave., Albany. Architect—Not Given. \$2500

RESIDENCE
(71) No. 51 BONNIE LANE, BERKELEY. One-story 6-room one-family frame residence. Owner—J. W. Kraft, 1895 San Juan Ave., Berkeley. Architect—Not Given. \$6000

ALTERATIONS
(72) No. 2818 SAN PABLO AVE., BERKELEY. Alterations. Owner—L. Thompson. Architect—Not Given. Contractor—J. R. Lantry, 739 Alleen St., Oakland. \$1000

STORES
(73) No. 1229-31-33 SOLANO AVE., ALBANY. Three stores. Owner—J. E. Quenzel, 1335 Curtis St., Berkeley. Architect—Not Given. \$4000

DWELLING
(74) No. 864 OAKES BLVD., SAN LEANDRO. Six-room dwelling. Owner—F. E. Law. Architect—Ralph Wood. Contractor—Nylander Bros., 632 Montclair Ave., Oakland. \$3000

DWELLINGS

(75) ST. MARY AVE., SAN LEANDRO. Four 6-room dwellings. Owner—Joe St. Mary, 315 Estudillo Ave., San Leandro. Architect—Not Given. \$4000 each

DWELLING

(76) N FLORENCE ST. 49 S Morepath Ave., OAKLAND; one-story 5-room dwelling. Owner—C. J. Smith. Architect—Not Given. Contractor—Leo J. Dolan, 216 17th St. Oakland. \$4500

REPAIRS

(77) 5036 TELEGRAPH AVE., OAKLAND; fire repairs. Owner—B. Dotti. Architect—Not Given. Contractor—A. H. Rose, 478 25th St. Oakland. \$1000

DWELLING

(78) S REDDING ST. 134 E High St., OAKLAND; one-story four-room dwelling. Owner & Builder—Louis E. Van Ness, 4920 Park Blvd., Oakland. Architect—Not Given. \$2250

ALTERATIONS

(79) SE COR. TENTH and Harrison Sts., OAKLAND; alterations. Owner—Eyre Bros. Glass Co., 1744 Broadway, Oakland. Architect—A. H. Jacobs, San Francisco. Contractor—W. C. Cone, 1744 Broadway, Oakland. \$3000

WAREHOUSE

(80) W LINDEN ST. 100 S 24th St., OAKLAND; one-story warehouse. Owner & Builder—San Pablo Auto Wreckers, 3515 San Pablo Ave., Oakland. Architect—Not Given. \$1000

DWELLING

(81) NO. 573 SUPERIOR AVE., SAN LEANDRO. Five-room dwelling. Owner—Derry Bros., 614 Superior Ave., San Leandro. Architect—Not Given. \$4000

ALTERATIONS

(82) NO 2442 RUSSELL ST., BERKELEY. Alterations. Owner—Mr. Fuller, Premises. Architect—Not Given. Contractor—M. P. Rose, 6329 Shattuck Ave., Oakland. \$1000

RESIDENCE

(83) NO. 2328 PARKER ST., BERKELEY. One-story 5-room 1-family frame residence. Owner—A. H. Schroeder, 2032 Kitteridge St., Berkeley. Architect—J. H. Lintoft & Son, 739 Alcatraz Ave., Oakland. \$3500

ALTERATIONS

(84) NO. 59 LAKEVIEW AVE., PIEDMONT. Alterations. Owner—Wm. Tyson, 59 Lakeview Ave. Piedmont.

Architect—Chas. F. B. Roeth, 1404 Franklin St., Oakland. Contractor—David Nordstrum, 354 Hobart St., Oakland. \$7000

DWELLING

(85) N OCEAN VIEW DRIVE 150 E Brookside, OAKLAND; 1½-story 5-room dwelling. Owner & Builder—W. J. Baker, 2255 Ransome Ave., Oakland. Architect—Not Given. \$4500

DWELLING

(86) 2556 CARMEL ST., OAKLAND; one-story 5-room dwelling. Owner—J. J. McGinley, 2556 Carmel St., Oakland. Architect—Not Given. Contractor—H. C. Knight, 327 17th St., Oakland. \$3500

RESIDENCE

(87) 1782 UNIVERSITY AVE., BERKELEY; one-story 2-room 1-family frame residence. Owner—H. K. Fox, 1484 University Ave., Berkeley. Architect—Not Given. Contractor—Fox Bros. \$2000
88 Legris Owner 9000

DWELLINGS

(88) 4307-4315-3315 BONA ST., OAKLAND; three one-story five-room dwellings. Owner & Builder—L. S. Legris, 4515 Edith St., Oakland. Architect—Not Given. \$3000 each

ALTERATIONS

(89) NO 931 MENDOCINO AVE., BERKELEY. Alterations. Owner—D. Ben Repliego, 940 Arlington Ave., Berkeley. Architect—Not Given. Contractor—Beadel & Lane, 909 Spruce St., Berkeley. \$2000

RESIDENCE

(90) NO. 555 SANTA BARBARA RD., BERKELEY. One-story 6-room 1-family frame residence. Owner—Jarvis & Wickman, 1230 Alton Way, Berkeley. Architect—G. L. Herberger, 2231 Lakeshore Ave., Oakland. Contractor—O. A. Wickman, 1320 Albina Ave., Berkeley. \$5000

ALTERATIONS

(91) NO. 302 BROADMOOR BLVD., SAN LEANDRO. Alterations. Owner—Mrs. Mason, Premises. Architect—Not Given. Contractor—Leo J. Dolan, 216 17th St., Oakland. \$1400

RESIDENCE

(92) NO. 300 OAKES BLVD., SAN LEANDRO. One-story frame and stucco residence (5 rooms). Owner—A. L. Bresta, 282 Oakes Blvd., San Leandro. Architect—Not Given. Contractor—Chester A. Gossett, 327 Woodland Park, San Leandro. \$5000

APARTMENTS

(93) W SIXTH AVE. 150 NE 13th St., OAKLAND; three-story 60-room apartments. Owner & Builder—M. Elgarten, 174 41st St., Oakland. Plans by L. F. Hyde, 372 Hanover Ave., Oakland. \$40,000

DWELLING

(94) S TRESTLE GLEN ROAD 750 E Norwood, OAKLAND; 2-story 7-room dwelling. Owner & Builder—Jos. M. Wheeler, 3750 Park Blvd., Oakland. Architect—Not Given. \$4750

BUILDING CONTRACTS

ALAMEDA COUNTY

No. Owner	Contractor	Amt.
14 McGinley	Knight	3500
15 DeLuchi	Knight	4620
16 Salvation Army	Jacobs	246900
17 Regents	Pacific	4620

RESIDENCE

(14) N CARMEL AVE. 100 ft. W of Maple St., Oakland; general construction on two-story frame and stucco 6-room residence. Owner—Mr. and Mrs. J. J. McGinley, 2956 Carmel St., Oakland. Architect—Harvey Slocombe, 62 York Drive, Piedmont. Contractor—Harry C. Knight, 327 17th St., Oakland. Filed Jan. 23, '31. Dated Jan. 20, '31. When roof is on.....\$875
When ready to plaster..... 875
When accepted..... 875

Usual 35 days..... 875
TOTAL COST, \$3500
Limit, 45 days. Plans and Spec. filed.

RESIDENCE

(13) W KINGSLEY PLACE 100 ft. N of Trestle Glen Road, Oakland; general construction on 4-room 2-story residence and double garage. Owner—L. and Pauline DeLuchi, Oakland. Architect—Francis Harvey Slocombe, 62 York Drive, Piedmont. Contractor—Harry C. Knight, 327 17th St., Oakland. Filed Jan. 23, '31. Dated Jan. 15, '31. Contractor's 10% when building is completed and acceptance is filed. COST plus 10%. Limit, 75 days. Plans and Spec. filed.

RESIDENCE

(16) COR FIFTEENTH AND GROVE Sts., Oakland. All work for six-story Class C Evangeline Residence building. Owner—The Salvation Army, 15th and Grove Sts., Oakland. Architect—Douglas Dacre Stone, 337 17th St., Oakland. Contractor—Jacobs & Pattiani, 337 17th St., Oakland. Filed Jan. 24, '31. Dated April 12, '30. 1st of each month..... 75%
On completion a sum sufficient to increase total payments to 75% of contract price..... 25%

Usual 30 days..... Balance
TOTAL COST, \$240,000
Bond, \$120,450. Surety, Fidelity & Deposit Co. of Maryland Limit, 180 days. Forfeit, none. Plans and specifications filed.

LABORATORY EQUIPMENT

(17) CAMPUS of the University of California, Berkeley; installing laboratory equipment for Agriculture Hall and Hilgard Hall. Owner—The Regents of the University of California, Berkeley. Architect—W. P. Stephenson, University of California, Berkeley. Contractor—Pacific Mfg. Co., 8 Arcade Monadnock Bldg., San Francisco. Filed Jan. 26, '31. Dated Jan. 21, '31. On completion..... 75%
Usual 35 days..... 25%

TOTAL COST, \$4670
Bond; Labor and Materials, \$2500; Performance, \$2500. Surety, Fidelity & Guaranty Co. Forfeit, 10 per day. Limit, 45 days. Plans and Spec. filed.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded Accepted

Jan 23, 1931—SE 12th and Harrison Sts., Oakland. C. H. King. Estate to George Swanstrom.....
.....January 17, 1931
Jan 23, 1931—724 SANTA FE AVE., Albany. P Reininghaus to Self.....
.....January 21, 1931
Jan 22, 1931—LOT 49 BLK 25, Resub of a ptn of North Cragmont, Berkeley. Charles R Brown to R M Brown.....
.....January 21, 1931
Jan 22, 1931—SW SHATTUCK AVE S. Kitteridge St., Berkeley. City of Berkeley to Maxwell Hardware Co.....
.....January 15, 1931
Jan 22, 1931—4810 E 14th STREET, Oakland. Mary A Henry to Sullivan & Sullivan.....
.....January 22, 1931
Jan 21, 1931—2050 JORDAN ROAD, Oakland. Andrew Fleming to Self.....
.....January 20, 1931
Jan 20, 1931—PTN LOTS 7 and 8 Blk. Map No 8 of Regents Park Albany. Frank A Stokes to whom it may concern.....
.....January 17, 1931
Jan 20, 1931—SE HARLAN Street 256-56 ft SW of Alvarado St. San Leandro. Fernandez and Isabel

Melroils to Manuel Joaquin.....
 January 8, 1931
 Jan 20, 1931—1385 ADA ST, Berkeley, Albin Leino to whom it may concern..... January 19, 1931
 Jan 20, 1931—5631 COLLEGE AVE, Oakland, Kalkski - Harband Theatre Co to Alfred J Hopper.....
 January 19, 1931
 Jan 27, 1931—NW EAST 14th ST and 24th Ave, Oakland, Assn of Dyer Const Co to C L Thompson, The Dyer Const Co (two completions).....
 January 17, 1931
 Jan 26, 1931—CAMPUS of the University of California, Berkeley, The Regents of the University of California to Anderson Company.....
 January 17, 1931
 Jan 26, 1931—NE 15th and GROVE Sts, Oakland, The Salvation Army to Jacobs & Pattani.....
 Jan 26, 1931
 Jan 26, 1931—PTN LOT 31 BLK 20, map of Blks 20-21-22-23-34 Thousand Oaks, Berkeley, Alton E. Gould to whom it may concern.....
 1931 '61 Avenue.....
 Charles D. Lyon..... January 22, 1931
 A. W. Oakland, E T Minney to Jan 26, 1931—3851 FOREST HILL
 Jan 27, 1931—501 CASTRO STREET Oakland, Frank Sacco to P De-lucchi & Son..... January 25, 1931
 Jan 24, 1931—NO 520 THE ALA-meda, Berkeley, Frederick L R Confer to H K Schultz, Jan. 22, 1931
 Jan. 24, 1931—NO. 175 POPLAR ST., Berkeley, Wallace S Wood to Albert Hammarberg..... Jan. 23, 1931
 Jan. 24, 1931—NE TWENTIETH & Broadway, Oakland, R H Cross to H J Christensen..... Jan. 21, 1931
 Jan. 24, 1931—MISSION SAN JOSE, Alameda Co. Female Religious of the Order of St. Dominic to S Rasori..... Jan. 21, 1931
 Jan. 24, 1931—S WASHINGTON 50 W of Stannage Ave., Albany, Rocky Treysne to whom it may concern..... Jan. 21, 1931
 Jan. 24, 1931—LOT 6 BLK 26, Ivey-wood Extension, Oakland, Albert Wilder to Jas Fisher..... Jan. 19, 1931
 Jan. 24, 1931—LOT 48 BLK 6, Map No. 4, Regent Park, Albany, Wm K McInnes to whom it may concern..... Jan. 17, 1931

M Walker and John Doe.....\$29.15
 Jan. 24, 1931—1714 SIXTEENTH St., Oakland, T L Roseberry Co vs Anglo-California Securities Co and Calif Hydro Oil Burner Inc.....\$416.50
 Jan. 21, 1931—S UNIVERSITY AVE 200 ft East of McGe. Berkeley, C H, George H and Herman K Fox doing business as Fox Bros vs C F Radston and Berkeley In-door Golf Co, Ltd.....\$1,151.43
 Jan. 21, 1931—LOT 8, Ardley Hgts, Oakland, General Mill & Lumber Co vs G L Van Gelder.....\$84.01

RELEASE OF LIENS

Alameda County

Recorded	Amount
Jan. 20, 1931—W SAN PABLO AVE 157 ft North of 27th St, Oakland, Frank M Eanks, Victor P Hansen, Elmer A Friberg and Thomas Masse to Standard Creamery, Inc.....	\$500.00
Jan. 27, 1931—E LENOX AVE 550-55 ft SE of Montecito Ave, Oakland, Willis C Lowe to Albert and Emily Kroll.....	\$356.4
Jan. 27, 1931—E LENOX AVE 550-55 ft SE of Montecito Ave, Oakland, Willis C Lowe to Albert and Emily Kroll, A M Poulson, East Bay Title Ins Co.....	\$440.34
Jan. 27, 1931—LOT 24, Cherry Manor, San Leandro, Atlas Heating and Ventilating Co, Ltd to A F Hansen, L M Mumford.....	\$171.50
Jan. 27, 1931—LOT 14, Cherry Manor, San Leandro, Atlas Heating and Ventilating Co, Ltd to A F Hansen, L M Mumford.....	\$171.50
Jan. 26, 1931—LOTS 47 and 48, Milton Tract, Oakland, Sterling Paint Co to Standard Creameries Co, Ltd, E H Lehan, W K Owen.....	\$256.09
Jan. 26, 1931—LOTS 1 and 2 BLK G, map of Pleasanton, Pleasanton, H C Stickle Co to W T and Mura W Davis.....	\$280
Jan. 26, 1931—LOTS 1 and 2 BLK G, map of Pleasanton, Pleasanton, H C Stickle Co to W T and Mura W Davis and Crooks & Hill.....	\$116.88
Jan. 23, 1931—LOT 9, Cherry Manor, San Leandro, Atlas Heating and Ventilating Co Ltd to A F Hansen, L M Mumford.....	\$180.83

whom it may concern Dec. 25, 1931
 Jan 21, 1931—LOTS 2 AND 3 BLK 8, Central Park, V L Jean to Whom it may concern, Jan. 20, 1931
 Jan. 21, 1931—LOT 7 BLK D, Milbrae Park, George Jorgensen to Walter Thompson.....
 Jan. 21, 1931—PART LOT 32 BLK 7, Blossom Heath Manor, Castle Building Co to Henry Horn.....
 Jan. 22, 1931—LOT 10 BLK 9, San Mateo City Homestead, Domenico Iaccelli to Louis Bellramo.....
 Jan. 20, 1931
 Jan. 22, 1931—ELECTRICO DRIVE & Meadway Rd, Hillsborough Hillsborough School District to Jacks & Irvine, Inc..... Jan. 15, 1931
 Jan. 22, 1931—PART LOT 13 BLK 4, School House Homestead, Colombo Benevolent Society to G Cristena et al..... Jan. 10, 1931
 Jan. 23, 1931—LOT 14 BLK 15, Lomita Park, E W Latimer to whom it may concern..... Jan. 23, 1931
 Jan. 23, 1931—PART LOTS 7 AND 8 El Cerro Park, Boni Kitchin to A F and C W Mattock..... Jan. 9, 1931
 Jan. 23, 1931—LOTS 20 AND 21 BLK 2, San Bruno, Albert S Ormsly to Frank C Grisez..... Jan. 14, 1931
 Jan. 24, 1931—LOT 34 BLK 60, Belmonte Davenport Realty Co to whom it may concern..... Jan. 24, 1931
 Jan. 24, 1931—PART LOT 11 BLK 2, Blossom Heath Manor, Castle Building Co to Henry Horn.....
 Jan. 24, 1931—PART LOTS 23 & 24 Blk 7, Blossom Heath Manor, Castle Building Co to Henry Horn.....
 Jan. 24, 1931—LOTS 48 AND 49 BLK 12, Belle Air Park, Louis Sanders to whom it may concern (2 completions)..... Jan. 7, 1931
 Jan. 24, 1931—LOT 45, Husing Sub San Mateo, J E Cooksey to whom it may concern..... Jan. 23, 1931
 Jan. 24, 1931—LOT 24 BLK 5, Bayview Heights, Joseph F Nash to whom it may concern..... Jan. 21, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
Jan. 19, 1931—LOT 3 BLK 16, Lomita Park, F M McNulty vs L R Milne.....	\$397.17
Jan. 19, 1931—PART LOTS 19 AND 20 Blk 130, South San Francisco Joe Bottiani vs Albert Tagnetti.....	\$180
Jan. 19, 1931—LOTS 11 AND 12, Oakwood Tract, Hull Bros vs R E Stewart et al.....	\$106.75
Jan. 19, 1931—LOT 3 BLK 16, Lomita Park, Brugger & Chandler vs L R Milne et al.....	\$3260
Jan. 19, 1931—LOTS 87 & 88, Central Park, San Mateo Feed & Fuel Co vs Austin Newman.....	\$367.46
Jan. 19, 1931—LOTS 9 AND 10 BLK 1, Oakwood, Christensen Lumber Co vs I D Northcutt.....	\$25.04

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
Jan. 19, 1931—LOT 1 BLK 14, Stanford Park, San Mateo, Walter C Drugg et al to whom it may concern.....	Jan 15, 1931
Jan. 20, 1931—LOT 21 BLK 3, Metropolis Homestead Tract, San Mateo, Harry Walters to whom it may concern.....	Jan. 19, 1931
Jan. 20, 1931—LOTS 9, 10 AND 11, Pierce Tract, San Jose, Alma E Cain to whom it may concern.....	Jan. 17, 1931
Jan. 21, 1931—LOT 8 BLK 11, Lomita Park, Charles Fortune to Acme Construction Co.....	Jan. 17, 1931
Jan. 21, 1931—LOT 14 BLK D, Milbrae Park, George Jorgensen to	

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
Jan. 20, 1931—444 MICHIGAN AVE, Berkeley, Homes Fixture Builders vs E R and F M Converse.....	\$105
Jan. 20, 1931—LOTS 1 and 2 BLK G, map of Pleasanton, A C Stoeckle Co vs M W and M F Davies, and Crook & Hill.....	\$116.88
Jan. 20, 1931—LOTS 1 and 2 BLK G, map of Pleasanton, A C Stoeckle Co vs M W and M T Davis, and Sullivan & Sullivan.....	\$280
Jan. 21, 1931—LOT 17 BLK 4, Thousand Oaks Heights, Berkeley, Swift Lumber Co, Inc, \$846.34; D J Gessler (doing business as West Coast Window Shade Co), \$44; vs Earle B. and Fray M. Converse.....	\$1,116.50
Jan. 20, 1931—LOTS 47 and 48 Milton Tract, Oakland, Sterling Paint Co vs Standard Creameries, Ltd., E L Lehan.....	\$256.09
Jan. 20, 1931—NW DURAN'S AVE and Fulton St, Berkeley, John L. Minchin, Jr vs Delphine Ferrier Doyle, Frances Ferrier Goss, Elizabeth Ferrier Ross, Frederick H Reimers.....	\$151.50
Jan. 27, 1931—2112 37th AVE, Oakland, Morgan Electric Co, Ltd vs Martin Benson, E Olson, A W Swanson.....	\$147.75
Jan. 26, 1931—PTN LOT 30 BLK 4, South Lakeshore Club, Oakland, W O Nelson vs Jas A and Grace MacMonnies.....	\$358
Jan. 24, 1931—149 BEECHWOOD Drive, Oakland, Lewis N Hager (as Hager Sash & Door Co) vs J	

Member Insurance Brokers' Exchange

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San Francisco

Jan. 19, 1931—LOTS 15 AND 18 BLK 19, Lomita Farm. F M McNulty vs R F Smith et al.....	\$243.41
Jan. 20, 1931—PART LOT 21 BLK 5 Baywood. G Bragato vs Edward Ransom Coasso.....	\$148.50
Jan. 20, 1931—TRACTS C AND D 12 BLK 1, Oakwood-Lots C A Bloomquist vs R E Stewart.....	\$62
Jan. 21, 1931—PART LOT 8 BLK 4, Burlingame Hills. S Rossi vs Jules G Mindnich et al.....	\$737.10

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded.....	Amount
Jan. 19, 1931 — LOCATION NOT Given. San Carlos Feed & Fuel Co; Gray Thirling Lumber Co to Clarence W Arsencaux.....	
Jan. 19, 1931 — LOCATION NOT Given. Burlingame Hardware Co to A C Brandt.....	
Jan. 23, 1931 — LOCATION NOT Given. A Silverstein to whom it may concern.....	

BUILDING CONTRACTS

SANTA CLARA COUNTY

RESIDENCE
 LOT 12 BLK 117 Map of Crescent Park 7-17-23 R 36 and 37 and Ptn Lot 11 Blk 117, Palo Alto. All work for two-story and basement frame residence and garage.
 Owner—Alan H. Robertson, Pope and Oak Sts., Palo Alto.
 Architect—John K. Branner, A. I. A., Shreve Bldg., San Francisco.
 Contractor—Harry H. Dabinett, 1765 Fulton St., Palo Alto.
 Filed Jan. 19, '31 Dated Jan. 14, '31.
 Roof rafters in place.....\$2334
 Rough plastering and roofing completed.....2334
 Building completed.....234
 Usual 35 days.....234
TOTAL COST, \$11,336
 Bond, \$5668. Sureties, W. P. Gray and Donald Brewer. Limit, 4 calendar months. Forfeit, none. Plans and specifications filed.

BUILDING PERMITS

SAN JOSE

RESIDENCE, 6-room frame, \$4300;
 No. 660 S-Twelfth St., San Jose; owner, Rodolfo Franchetti, 660 S-12th St., San Jose; contractor, M Scaglione, 1231 Sherman St., San Jose.
RESIDENCE 2-story brick, \$15,000;
 Margaret St. at 15th, San Jose; owner, Chas. Gladding, 4th and Keyes Sts., San Jose; architect, C. S. McKenzie, Twoby Bldg., San Jose; contractor, F. T. Edmans, Builders' Exchange, San Jose.
RESIDENCE, 5-room frame, \$2550;
 Harless St. near Edwards, San Jose; owner and contractor, H. D. Bayles, 119 Massol Ave., Los Gatos
STORES and lodge building, Class C, \$9000;
 Seventh St. near Julian, San Jose; owner, Modern Order of Bucks, 1168 Magnolia St., San Jose; architect, Chas. McKenzie, Twoby Bldg., San Jose; contractor, not determined.
RESIDENCE, 5-room frame, \$3950;
 McKendrie Ct. near Park, San Jose; owner, E. D. Anderson, 446 N-14th St., San Jose; architect and contractor, Edw. Delmaestio, 460 W. Julian St., San Jose.
RESIDENCE, 5-room frame, \$2500;
 Vestal St. near 16th, San Jose

owner and contractor, W. H. Lee, 50 N-First St., San Jose.

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$3000; No. 1050 Second St., Palo Alto; owner, E. D. Minton; contractor, Minton Co., 243 Hamilton Ave., Palo Alto
RESIDENCE, stucco, \$3500; No. 1040 Second St., Palo Alto; owner, E. D. Minton; contractor, Minton Co., 243 Hamilton Ave., Palo Alto
RESIDENCE, stucco, \$3750; No. 305 Grant St., Palo Alto; owner, E. D. Minton; contractor, Minton Co., 243 Hamilton Ave., Palo Alto
ALTER apartments, \$1000; No. 480 Cambridge Ave., Palo Alto; owner, S. M. Cuthbertson, 2285 Eel Camino St., Palo Alto
RESIDENCE, stucco, \$11000; No. 525 Center St., Palo Alto; owner, A. H. Robertson, Pope and Oak Sts., Palo Alto; architect, John K. Branner, Shreve Bldg., San Francisco; contractor, H. H. Dabinett, 1765 Fulton St., Palo Alto.

BUILDING PERMITS

REDWOOD CITY

DWELLING, frame, 5-room, bath and garage, \$3000; No. 1117 Fay St., Redwood City; owner, C. D. McLane; contractor, Moncrieff Bros.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded..... Accepted
 Jan. 13, 1931—LOT 11 BLK 63, Resubd of Seale Addition No. 2, Palo Alto Andrew W Hoy to whom it may concern.....Jan. 7, 1931
 Jan. 14, 1931—LOT 1 BLK D, Pauline Tract, Sunnyvale. Lucy O Huston to whom it may concern.....Jan. 14, '31
 Jan. 15, 1931—LOT 2 BLK 141, Embarcadero Oaks, Palo Alto. Edna K Lenzen to whom it may concern.....Jan. 14, 1931
 Jan. 15, 1931—LOT 22 BLK 2, Restwood Park No. 2, San Jose. Andrew J Ogg to whom it may concern.....Jan. 14, 1931
 Jan. 15, 1931—LOT 18 BLK 7, North Glen Residential Tract, San Jose. George D McCrary to whom it may concern.....Jan. 14, 1931
 Jan. 15, 1931—NW HEDDING AND NE MORSE Sts., San Jose. Louis A Clarke to whom it may concern.....Jan. 15, 1931
 Jan. 16, 1931—LOTS 4, 5 AND 6 Boulevard Tract, San Jose. Clarence P and Clara Fonseca to whom it may concern.....Jan. 14, 1931
 Jan. 16, 1931—LOT 19 BLK 5, Rose Lawn, San Jose. Joseph Souza et al to whom it may concern.....Jan. 16, 1931
 Jan. 17, 1931—LOT 101, Studio Heights, San Jose. J A Wagner to whom it may concern.....Jan. 16, 1931
 Jan. 19, 1931—LOT 23 BLK 26, North Glen Residence Park, San Jose. A R Calvelt to whom it may concern.....Jan. 18, 1931

LIENS FILED

SANTA CLARA COUNTY

Recorded..... Amount
 Jan. 14, 1931—LOT 50, Third Ward Home, San Jose. M & L Doane Lumber Co vs Thomas J Linnett et al.....\$216.34

Jan. 16, 1931—NW COLLEGE AVE 50 SW WILLIAMS SW 37½xNW 115 Part Lot 7 and all Lot 8 BLK 40, College Terrace, Palo Alto Frank A Grunert vs Willis J Sheldon.....\$1300
 Jan. 19, 1931—LOT 5 BLK K, Southgate, Palo Alto. Howard I Gray vs George and Ida C Miller.....\$403.23

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded.....	Amount
Jan. 19, 1931—10 ACRE in N Homestead Road, Part Quito Rancho. Fred Bowen to Perry Camacho et al.....	\$32.29
Jan. 15, 1931—LOT 5 BLK W, Los Altos Country Club Property. D & S Lumber Co to Jessie R Grant et al.....	\$60.49
Jan. 15, 1931—LOT 5 BLK W, Los Altos Country Club Properties. D & S Lumber Co to Jessie R Grant et al.....	\$48.25
Jan. 17, 1931—NO. 192 N-FIRST ST. W Fifth 31½ SE St. James St., San Jose. Henry Cowell Lime & Cement Co to B R and C W Cook.....	\$13.20
Jan. 19, 1931—LOT 8, Scharff Subd., San Jose. Tilden Lumber & Mill Co to Frank E Rose.....	\$691.75

BUILDING CONTRACTS

MARIN COUNTY

FIRE HOUSE
CORTE MADERA. Carpenter work, cement work, etc., for fire house. Owner—Corte Madera Volunteer Fire Department, Ltd., Corte Madera. Superintendents—W. G. Voorhies and R. E. Oliver.
 Contractor—William F. Wegner, 225 Monte Vista Ave., Larkspur
 Filed Jan. 21, 31. Dated Jan. 19, '31.
 Floor joists placed.....25%
 Brown coat plaster on.....25%
 When completed.....25%
 Usual 35 days.....25%
TOTAL COST, \$6932
 Bond, \$7000. Sureties, Henry Meyer and Fred Perry. Limit, 90 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

MARIN COUNTY

Recorded..... Accepted
 Jan. 19, 1931—ROSS, Myra and Philip Brown to Frank Howard Allen, Inc.....Jan. 19, 1931
 Jan. 17, 1931—SA RAFAEL, Harry Albert and wife to M H Vanderbilt.....Jan. 15, 1931
 Jan. 20, 1931—CORTE MADERA. George W Hall to Wm Wegner.....Jan. 17, 1931
 Jan. 20, 1931—SAN ANSELMO. C Guild to whom it may concern.....Jan. 16, 1931

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded..... Accepted
 Jan. 19, 1931—S 3/5 of that certain tract of land known as Brown Tract. Alhambra Union High School District to Cliff Monson and H E Rahlmann (as Monson Bros.).....Jan. 17, 1931
 Jan. 22, 1931—LOT 36 and N ½ Lot 37 Blk 6, Richmond Pullman Home Tract. James & Sadie Hamilton; and L E and Valborg M Bailey to whom it may concern.....Jan. 19, 1931
 Jan. 23, 1931—FTN LOT 21, Govern-

ment or Gwin Ranch, 3.1 Acres, California Water Service Co to E H Melencamp.....Jan. 29, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 Jan. 22, 1931—LOT 4 BLK 323, City of Pittsburg. Charles N Wade and W D Ealy (as Manager Sheet Metal Works) vs Wallace Snelgrove and R E Clays.....\$120
 Jan. 22, 1931—LOT 4 BLK 323, Additional Service, Martinez. Santa F Lumber Co (as Martinez Lumber Co) vs Wallace Snelgrove and R E Clays.....\$612.23
 Jan. 21, 1931—W 1/2 LOT 1 BLK 33, Boulevard Gardens Tract No. 1, Kavanagh Bros vs Mrs Bessie Rose and E E Rose.....\$158.50

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
 Jan. 21, 1931—LOT 9 Sunset Addition. Geo W and Minnie L Holm to C A Holm.....Jan. 29, 1931
 Jan. 22, 1931—LOTS 3 AND 4 BLK 64, Map of Second Addition to Pacific Grove. Ben F and Naomi Fuller to whom it may concern.....Jan. 21, 1931
 Jan. 22, 1931—LOT 6, Vista La Bahia Licensed Surveyors Map. Walter Johnson to W Bonnard Snook.....Jan. 12, 1931
 Jan. 22, 1931—LOT 17 BLK 1, Map No. 2, Del Monte Heights. Donald Wallace to whom it may concern.....Jan. 22, 1931
 Jan. 26, 1931—LOTS 11 and 12 BLK 14 Riker & Jackson Addn, Salinas City. Edward Antsey to whom it may concern.....January 26, 1931
 Jan. 26, 1931—LOT 6 BLK 67, Book of City of Monterey. John Grady to E P Newman and G E Holsted.....January 24, 1931
 Jan. 26, 1931—LOT 13, Sherwood Pk Subdiv, Rancho El Sausal. W T and Mary L Duncan to whom it may concern.....January 23, 1931

LIENS FILED

MONTEREY COUNTY

Recorded Amount
 Jan. 9, 1931—LOT 14 BLK 5, Map of Lake Terrace Tract in Lot 4 of Rancho Noche Buena. N A Fezzolare vs P M Lehman and Herbert G Mayes.....\$4.50
 Jan. 24, 1931—LOTS 34 and 36 BLK 7 map of Withers Addn, Salinas. T A Work, Jr and Stuart A Work vs Chas O Tibbs.....\$554.15

RELEASE OF LIENS

MONTEREY COUNTY

Recorded Amount
 Jan. 21, 1931—LOT 15 BLK 20, Monterey Peninsula Country Club Subdivision No. 2 Roberts Mfg Co to Alfred and Sophia M Price.....\$271.40

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
 Jan. 22, 1931—LOT 21 BLK 14, Subdivision No. 1, Tuxedo Park. William Peenstra to whom it may concern.....Jan. 29, 1931
 Jan. 24, 1931—LOTS 7, 8 AND 9 BLK

9, Tracy. H A and E H Ramsey to Tornell Co.....Jan. 15, 1931

BUILDING PERMITS

STOCKTON

HOSPITAL and Industrial building, \$88,900; No. 1102 N-California St., Stockton; owner, State of California; contractor, Sorenson & Haggmark, 1252 Harrison Street, San Francisco.
 RESIDENCE and garage, \$4000; No. 1517 N-Pershing St., Stockton; owner, J. M. Helterbrand, 2644 E-Main St., Stockton.
 RESIDENCE and garage, \$5000; No. 1740 W-Harding St., Stockton; owner, J. R. Leighton, 813 Bedford Road, Stockton.

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 Jan. 27, 1931—NE MATHESON & Second Sts., Healdsburg Leo Frediani to A Fordon.....Jan. 16, 1931

LIENS FILED

SONOMA COUNTY

Recorded Amount
 Jan. 26, 1931—PART LOT 403 and E 1/2 Lot 402 Blk 12, City of Santa Rosa. E L Kindig vs J F Kinslow, Mary C Barnett, Amelia B Zurnett, A P Sweeney, C B Eames, L A Heckman and Junior Golf Paradise.....\$57.70

BUILDING PERMITS

SACRAMENTO

RESIDENCE, 7-room and garage, \$5000; No. 373 Santa Ynez Ave., Sacramento; owner, C. H. Thompson, 3443 Sacramento Blvd., Sacramento
 RESIDENCES (2) 5-room and garages, \$4000 each; No. 701 and 721 48th St., Sacramento; owner, A. R. Gremman, 4041 11th Ave., Sacramento.
 BANK and office building, \$29,000; No. 1015 9th St., Sacramento; owner, Peoples Accept. Corp., 1007 8th Street, Sacramento; contractor, Campbell Constr. Co., 800 R St., Sacramento.
 RESIDENCE, 4-room, \$2500; No. 1620 Caramay Way, Sacramento; owner, Frank Mead, Box 247 Rt. 1, Sacramento.
 RESIDENCE, 5-room, \$3000; No. 564 38th St., Sacramento; owner, A. C. Van Winkle, 4600 T St., Sacramento.
 RESIDENCE, 5-room & garage, \$5000 No. 2560 Third St., Sacramento; owner, C. C. Ruby, 4800 T St., Sacramento.
 RESIDENCE, 6-room, \$4700; No. 4629 Freeman Way, Sacramento; owner, W. S. Steeves, 521 38th Street, Sacramento.
 RESIDENCE, 6-room & garage, \$4500; No. 1600 40th St., Sacramento; owner, M. F. Terra, 2315 9th St., Sacramento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
 Jan. 17, 1931—LOTS 11 AND 41, Land Drive Terrace Unit No. 1, Sacramento. McClatchy Realty

Co and Robertson Govan Co to whom it may concern. Jan. 16, 1931
 Jan. 21, 1931—ONE 1/4 ACRES LOT 9, New Tragic. H S Palmerice to whom it may concern.....Jan. 21, 1931

BUILDING PERMITS

FRESNO

STORE, etc., \$4000; No. 2328 California St., Fresno; owner and contractor, Diel Brothers, 2310 California St., Fresno.
 SERVICE station, \$2000; No. 2508 Divisadero St., Fresno; owner, J. L. Fike, 618 Dearing St., Fresno.
 DWELLING, \$1400; No. 725 B St., Fresno; owner, David Koroch, 147 F St., Fresno.
 DWELLING and garage, \$4500; No. 624 Normal Ave., Fresno; owner, Ella E. Miller; contractor, W. T. Harris, 577 McKinley St., Fresno.
 SIGN, \$1750; Van Ness and Kerr Sts., Fresno; owner, Wesley Garage, Curtis Hess, 1306 Van Ness St., Fresno.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 Jan. 21, 1931—LOTS 17 TO 23 BLK 28, Clovis. Rose M Sheehan to Ernest Russell.....Jan. 17, 1931
 Jan. 22, 1931—LOT 36 BLK 7, Palm Grove. W S Proctor to whom it may concern.....Jan. 22, 1931
 Jan. 20, 1931—LOTS 17 TO 21 BLK 62, Fresno. Pacific Greyhound Lines Inc to Wieland Bros.....Jan. 19, 1931
 Jan. 22, 1931—LOT 59, Stivers Terrace No. 3, Fresno. Josie L Huey to H S Koon.....Jan. 17, 1931

LIENS FILED

FRESNO COUNTY

Recorded Amount
 Jan. 20, 1931—S 16 1/2 LOT 11, Lots 12, and 13 Blk 74, Fresno. Atlas Roof Co vs Esther L Black.....\$815

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on February 18, 1931, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor to which special reference is made, of portions of State Highway, as follows: Sonoma County, a timber bridge across Mark West Creek about 4.5 miles north of Santa Rosa (IV-Son-1-B), consisting of six 19' 0" spans and two 16' 10" spans, surfaced with Portland cement concrete, on pile bents and grading and paving approaches with Portland cement concrete pavement.

San Joaquin County, between Stockton and one-half mile north of Houston School (X-S-J-4-C-D), about seven and seven-tenths (7.7) miles in length, to be graded and paved with Portland cement concrete.
 Proposal forms will be issued only to

those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Charter 64, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full direction as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.
DEPARTMENT OF PUBLIC WORKS,
DIVISION OF HIGHWAYS.

C. H. PURCELL,
State Highway Engineer.
Dated January 21, 1931.

NOTICE TO CONTRACTORS

General, Electrical, Plumbing and Heating Work

Whittier State School

SEALED BIDS will be received by Geo. E. McDougall, State Architect, Public Works Building, 11th and F Streets, Sacramento, California, up to 2 o'clock P. M., Tuesday, February 24, 1931, said bids thereafter on said day to be publicly opened and read for the erection and completion of Building for Boys, Whittier State School, Whittier, California, in accordance with plans and specifications therefor.

The Building is a two-story brick structure with frame interior construction and tile roof. The total floor area is approximately 8300 square feet.

Separate bids will be entertained for the following segregate parts of the work and combinations thereof:

1. General Work, embracing all branches of the construction other than Plumbing, Heating and Electrical.

2. Electrical Work.

3. Plumbing and Heating Work.

4. Complete Mechanical including Plumbing, Heating and Electrical Work.

Contractors shall state clearly in their application the particular segre-

gation of work that they desire plans for.

Plans and specifications are on file for examination in the office of the Division of Architecture, Public Works Building, Sacramento, and also at Room 1025 Associated Realty Building, Los Angeles, and at the principal California cities Builders' Exchange Offices.

Plans, specifications, and proposal forms may be secured by licensed Contractors who have qualified or who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 64, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

Bids will not be accepted from a Contractor to whom a proposal form has not been issued and all bids must be on proposal forms supplied by the State.

Requests for plans shall be accompanied by a deposit of twenty-five (\$25.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition, at Sacramento Office of the Division within 30 days after opening bids, otherwise it will be forfeited to the State.

All bids must be filed at the office of the State Architect on or before the time heretofore stated and in accordance with the "Rules for Bidding" accompanying the proposal form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the "State Engineer, Department of Public Works," in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, Department of Public Works, reserves the right to reject any or all bids and

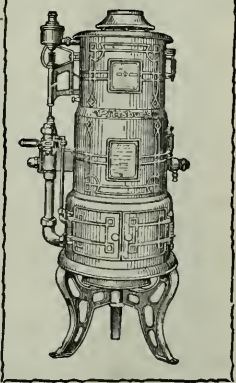
to waive any informality in any bid received.

DEPARTMENT OF PUBLIC WORKS,
DIVISION OF ARCHITECTURE,
GEO. E. McDOUGALL,
State Architect,
W. E. GARRISON,
Director of Public Works.

More than 50 members of congress in caucus January 24 decided to request the state and treasury departments to send an American commission to Russia to investigate alleged use of convict labor on products exported to this country. The products which the commission would investigate are lumber, oil, wheat, cotton and manganese.

The sales of lime by producers in the United States in 1930 amounted to 3,334,000 short tons valued at \$24,950,000, according to estimates furnished by lime manufacturers to the United States Bureau of Mines, Department of Commerce. This is a decrease of 21 per cent in quantity and 25 per cent in value as compared with sales of 4,268,768 tons valued at \$35,478,848 in 1929. The estimated sales of hydrated lime, which are included in these figures, amounted to 1,306,000 tons in 1930 valued at \$10,102,000, a decrease of 16 per cent in quantity and 21 per cent in value from the production of 1,550,771 tons valued at \$12,771,525 in 1929. The average unit value of all lime showed a decrease from \$7.84 a ton in 1929 to \$7.37 in 1930. Smaller demand and unsettled conditions were generally reported in the lime industry in 1930. Lime for construction was apparently more adversely affected than other classes of lime.

A recommendation that the state provide more funds for the use of joint highway districts was made in the report of a special committee headed by Assemblyman Chris N. Jepsen of Paso Robles. Jepsen estimated that at least \$1,000,000 is needed to carry on the program of the districts.



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BUILDING *and* ENGINEERING NEWS

Publication Office
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SAN FRANCISCO, CALIF., FEBRUARY 7, 1931

Published Every Saturday
Thirty-first Year, No. 6



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The only daily construction newspaper affording complete coverage of the construction activities in Central and Northern California, featuring work contemplated, bids wanted, bids opened, contracts awarded, sub-bids wanted and sub-contracts let on all types of building construction, bridges, dams and harbor works, irrigation projects; machinery and equipment; water works and supplies business opportunities, building permits, building contracts, mechanics' liens, acceptances, etc., etc.

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Building and Engineering News

Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

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Building and Engineering News will be sent to subscribers until ordered stopped and all orders to discontinue must be sent in writing to this office.

LUMBER INDUSTRY SEES BETTER YEAR

"Lumbermen in general feel 1930 as so poor a year for their product as 1931 cannot fail to do better," says the American Lumberman in its usual trade review.

"During the year the softwood mills an average of 492 reporting weekly produced 77 per cent as much as in 29, and their sales also were 77 per cent of 1929. The hardwood mills reported production 71 per cent as much as in 1929 and sales 64 per cent as much. It is encouraging to know that economic authorities think the present deflation is too much below normal levels, in both volume of consumption and prices. The Harvard index of wholesale commodity prices dropped from 92.5 to 74.8 during the year, or about 19 per cent. Lumber prices declined at least that much. Recovery in general business, it is felt will be gradual from now on, especially as steps are being taken to release bank funds and thus stimulate activity. Authorities seem to agree that a present vicious circle of deflation will be broken principally by the undertaking of larger programs of public construction, and in every political district large and small, provision is being made for such work. Lumber could be one of the first and principal beneficiaries of such programs, because large amounts will be called for. He mills have accumulated stocks during the year, but their accumulations are not as burdensome as might be thought. Shipments of a weekly average of 636 softwood mills have in 1930 amounted to 97 per cent of their 1929 production, and those of the hardwood mills to 89 per cent of their production. The holdings of retailers and industrial consumers, on the other hand, are generally considered low."

LOW VOLT NEON TUBES AVAILABLE

The practical application of rare gas tubes, commonly known as neon tubes, operate on standard 110-220 volt electric current, is announced by L. P. Sawyer, vice president of Sude Neon Lights, Inc., of New York.

These low voltage units have attained a luminosity as high as 2000 lumens per foot, compared with 60 to 2 lumens per foot for high voltage neon tubes.

These low voltage gaseous tubes are applicable to commercial, industrial and special residential lighting. Special high powered units of greater intensity have been developed for industrial lighting. The better quality of the more even distribution of the light with the lack of glare is of advantage for reading or close inspection work.

Members of the Tennessee, contractors and material dealers are planning to organize a Building Congress in that state.

IRON-STEEL MEET SET FOR DEL MONTE

Under the auspices of the California State Chamber of Commerce, the Iron, Steel, and Allied Industries will hold their seventh annual convention at Del Monte, February 12, 13, and 14, Thursday, Friday and Saturday mornings will be devoted to presentation of papers and business, on the following subjects:

(1) Recent developments in our iron and steel industry; (2) new developments contemplated; (3) modern industrial management; (4) proposed legislation affecting California industries; (5) safety standards and other simplified practices as aids to reducing production costs; (6) world-wide industrial competition.

The usual golf tournament will be held on Thursday, Friday, and Saturday afternoons. There will be group dinner-meetings Thursday evening.

The 1930 officers are: Chairman, J. E. Webster, Southwestern Engineering Corp., Los Angeles; vice-chairman R. M. Alvord, General Electric Co., San Francisco; and secretary, Chas. S. Knight, director, industrial department, California State Chamber of Commerce, San Francisco.

CONTRACTORS MAP DRIVE TO ASSIST BUSINESS REVIVAL

Action to throw the full force of the Associated General Contractors of America into the task of steadying the construction industry and stimulating business recovery was taken at the concluding session of the national convention in San Francisco Jan. 29. The contractors passed eight resolutions, voicing the minds of the 2000 representatives of the industry thus:

1.—Condemnation for the diversion of gasoline tax revenues from highway construction.

2.—Support for legislation to continue the construction census.

3.—Urging state officials to formulate a system of financing public buildings by bond issue.

4.—Urging concentration of industrial agencies in a drive to eliminate convict labor from competition with free labor, to be supplemented by employment of convicts in reforestation and like work.

5.—Recommending surety companies write no contracts on projects exceeding \$25,000 until records of bidders' performances are secured.

6.—Urging governmental bodies abandon purchases of material for public work, on the ground that such purchases are uneconomical and encourage bidding by irresponsible contractors, delay work and result in low quality of construction.

7.—Pledging co-operation with the United States Building and Loan League over the country in promotion of sound construction.

8.—Urging passage of national legislation barring convict-made goods from importation.

Subs and Dealers Guaranteed Payments By Sacramento Architects

The Society of Sacramento Architects, recently organized, has adopted a standard of terms governing the payment of money on contracts executed under the direction of its members.

The following architects have agreed to use the standard in drawing up "General Conditions" in the specifications: Starks & Planders, Harry Devine, Frederick Harrison, Jens C. Peterson and Chas. Dean.

The standard rules adopted are published herewith:

"Monthly statements shall be made out in accordance with forms issued from the architects office and said forms shall be filled out so as to show the value of work done under each branch, trade or sub-contract, and these forms will be the basis upon which the General Contractor shall pay his sub-contractors each and every month when the architects certificate has been issued covering the amount listed on said form.

"Any sub-contractor who does not receive his payment in accordance with the amount of money collected by the General Contractor on his executed work may appeal to the Architect who will upon Owner's approval have the amount due the sub-contractor withheld from the next certificate and the General Contractor is accepting this contract hereby agrees, without reservations of any nature, to this method of payment unless specifically agreed otherwise in the Contract Agreement Document.

"It is understood that the Contractor will make payments to material companies and sub-contractors in accordance with the amount shown on statement before making his request for additional payments. Failure to do so will constitute a breach of contract."

\$50,000,000 LUMBER MERGER IS PROPOSED

Merger of the Little River Redwood Lumber Company with Hammond Lumber Company is expected to be announced within the next few days. The proposed consolidation would result in the formation of one of the largest redwood organizations in the world, involving more than \$50,000,000. Hammond interests would dominate.

Consumption of this merger would bring under single control 10,000,000 feet of standing redwood timber, valued at more than \$20,000,000; three mills on Humboldt Bay, in northern California, and about \$5,000,000 in inventories, together with a fleet of steamers, logging railroads and other equipment.

ARCHITECT'S RESPONSIBILITY TO THE CONSTRUCTION INDUSTRY

(By Edwin Bergstrom, Los Angeles, Calif., Treasurer,
American Institute of Architects)

The Architects' responsibility to the Construction Industry is the subject which I have been asked to speak to you about. I shall not speak of the functions of an architect or of his responsibilities as an individual, but rather of his duties and obligations as an element of a great industry, and therefore of his responsibility to the other elements of that industry. To do this it is necessary to identify those elements.

The construction industry is most complex and the simplest building operation brings together many classes of labor and many kinds of materials.

Elements in Construction

There is no other single industrial operation that requires the thought of so many minds and the labor of so many hands. Every material that goes into the building operation must have been worked over and fabricated into a finished product before it can be wrought into the structure and finish of a building. To make these products, to bring them to the building site and to form them into the structure requires a vast amount of labor, and that labor is almost entirely. It is evident then that labor and the producers of the materials of construction are two fundamental elements of the construction industry.

The constructors who bring together the materials of construction and the equipment to erect them into a building and who bring together the labor to form and fit and fasten those materials are a third fundamental element of the construction industry. Those who plan and design the building are a fourth essential element, and the banker who supplies the money for the building and its construction is the fifth element. The owner is the final element, and the one on which the others depend.

There are then six fundamental elements in every building operation. The owner, the banker, the designer, the producer, the constructor, and labor must each and all function in order that a building shall be produced and are the elements that must be considered in every discussion relating to the construction industry. It is true that there are many other activities which relate to the industry, but they have been grafted on to or have grown out of these six fundamental elements, for better or for worse. What is important is that every discussion of the industry must comprehend and include all of the six essential activities, not as the efforts of individuals and not as the efforts of individual groups, but always as joint and collective efforts.

Need for Cooperation

The activities of each group must function cooperatively with the activities of every other group and synchronize therewith in order to produce a building. If there is a duplication of efforts or an overlap of activities, or if one group undertakes activities not within its understanding and sphere, or if there is a lack of collaboration between the groups and one group fails to recognize its dependence on the other groups and remembers not that the industry is the important thing, then waste and confusion result, the public suffers and loses confidence, and the industry is harmed.

It is the function of the owner, one of the six fundamental elements of the building operation, to pay money out to all the five other elements. Four, if not five, of those other elements

Address delivered before the
Twelfth Annual Convention of the
Associated General Contractors of
America, in San Francisco, Jan-
uary 28, 1931.

are dependent on that one unit for their livelihood and their existence. If we think of what these four elements take from that one unit, and of all the other activities that take livelihood from the same source, then we recognize how insatiable are the calls on the resources of that one unit, and how important it is to the five basic dependent groups that those resources shall not be dissipated or wasted. I submit that there is no problem before the building industry today which is more fundamental and important than the regulation, protection, and conservation of those resources.

It must be the duty and the immediate responsibility of your group and our group and of the four other elements of the industry to recognize and maintain the distinctive functions of the fundamental elements in the industry; to cut down the surfeit of overhead that obtains in the industry; to eliminate costly and wasteful methods from the industry; to adjust the number of working days or the working hours in the industry to the conditions that must soon obtain; to build up competency, proficiency and efficiency of the members of the groups, and to ensure the integrity of the building operation. To do this and every one of the elements should examine not only its own aims and motives and activities, but their collaborating relations to a certain whither their combined endeavors are leading the industry. The most serious of such examinations should convince any of these elements that the conservation of these resources whereof the groups derive their sustenance has not been a prime consideration up to the present time. It would seem the most simple economics that none of the five groups should attempt or be permitted to take undue tribute from the common source, but that all thereof should collaborate to conserve those essential resources and to regulate their flow into the industry.

Functions Efficiently

Granting these basic elements and their combined responsibilities to the industry, it is not difficult to define and differentiate the functions and responsibilities of each group.

The architect under this scheme of things has one function to perform in the industry and only one. That function is to practice architecture. It takes only three words to define that function, and beyond the field enclosed within those three words my profession should not go. The function of each of the other four groups that derive their livelihood from the owner can be as simply stated. The banker's function is to supply money; the producer is to supply materials; labor, to supply the hands; and the constructor to construct the building. This is the construction industry stated in its simplest terms, and I think it is fundamental that each of those groups shall return to and perform only the basic activities that are so simply stated and shall eliminate therefrom all that is unnecessary and extraneous, before the construction industry can hope to function efficiently and without waste.

Architectural Profession

The members of my profession have always practiced architecture, but the architect, historically, has not always been a professional man. Just what constitutes a profession today, as distinguished from a business, is not clearly defined. At one time it may have denoted that the person practicing a profession had undertaken an apprenticeship through long years of study preparation and apprenticeship, but today any one who can wield the clip pens and the shears disposes that he has reached a professional status. I think it is important that the architects should practice as a profession and that the professional idea should be encouraged in the building industry. The professional man has a little different slant towards industry and business than has the business man. The professional man may not have more integrity and he may not be so efficient as the business man, but generally he is not quite so ruthless. His training and education are all the traditions of his profession inculcate in him a background of honor and idealism that he should not lose and that should make him want to see a job through and well done according to his light and his ability rather than to cut his performance to fit the compensation that he is to receive for it. Generally, the architect is not aggressive, because the nature of his responsibilities lead to other attributes. But I think he has a very real, and sometimes a very bitter, attitude towards the industry. I think it important that he inject into the business something of the professional attitude of mind. In doing so he will unconsciously absorb more of business into his profession. The American Institute of Architects has formed an affiliation with the Producers Council, just to bring this about.

The Producers Council

The Producers Council is a group, nearly one hundred of the producers of our principal building material organized nearly ten years ago by a few architects and producers who felt the lack of complete understanding between their groups and who had vision of bringing about the things have set out. The direct collaboration has brought only good to both organizations. The professional viewpoint is surely permeating the members of the Council and I am certain that the will bear witness that their business has not suffered thereby. They are looking at industry in just a bit different way, and just as every organization has been absorbing from them the finest ideals of business. Some of us think that this sort of contact with the other elements of the construction industry would have very far-reaching results in solving the fundamental problem I have submitted to you.

Right here I want to leave with you the thought that the Council of Producers meets annually in convention and simultaneously with the convention of the American Institute of Architects, and at the same place. I mingle freely in our meetings, and our series of discussions would have the Architects without the Producers and the Producers meeting with the Architects could never have reached the mutual understandings we now have. I seriously urge you to send to your consideration. It does seem good that two of the most important collaborative groups in the industry should discuss the problem of that industry by themselves.

Architect's Responsibilities

To plan and design buildings is a prime function of the practice of architecture, and yet that may not be greater responsibility for the architects than to bring the professional expert into business, and to be the agency to bring the fundamental problems of the industry to the other groups and insist on their collaborative solution. But let us consider their responsibilities as planners and designers.

Traditionally it is the function and responsibility of the architect to envision and interpret the wants of the owner and to translate the building into his imagination builds for that enter into words and blue prints, so that all the groups of the industry can visualize exactly that dream, and in their turn can translate it into terms of money and materials and labor and thereby build for the owner the building as he dreamed. The wants of the architect are the key to a building operation, and the architect must always guide and synchronize the wants of the owner. This building is to grow and function and be placed in the surroundings he dreamed.

The owner must always depend upon the planner of his building, and the planner can bring about the results the owner expects only if he controls the materials that are to be used to form the building and their incorporation in that building. It is the responsibility, the function and responsibility of the architect should not be lost sight of, it rather that it should be jealously encouraged and insisted upon by all the other elements of the industry. The architect functions as the planning and the supervising element of a building operation is traditionally sound practice, and fundamentally it is a sound allocation of responsibility.

To plan and design a building safely not a monopoly of our profession, of the practice of architecture. Any person who understands the stresses and strains that are developed in a building, and who knows the strength of materials and their characteristics, and who has had the engineering knowledge to calculate these stresses and strains, and to use and interrelate the materials in the building so as to utilize their strength and make the building and its construction safe, is certainly qualified to design the building. But to design a building that will be structurally safe is not practicing architecture, though it is an essential of that practice. The practitioner of architecture must always assume the full responsibility for making his building safe and sound. He must use his engineering qualifications himself to design it, so even he must employ those who have the knowledge. The practice of architecture requires that the architect should know more than to design the structural elements of the building so that they result in a stable structure. He must arrange those necessary structural elements so that they show the orderliness, pleasing outline, proportion, and distinction. By these means the architect injects beauty into the structure, and beauty in a building does not impair usefulness or add to its cost. Beauty in the building itself and beauty in its surroundings has a direct commercial value. Mr. Albert Kahn, architect of world-wide knowledge, laid on this point in Cleveland last year.

"The importance of building handily is greater in this country today than ever because of the dire need for beauty in most of our cities' streets. Who is to suffer in the aspect of many of our streets and boulevards? No system, no relation of one building to another, a

scandalous lack of respect for orderly grouping and consideration for one another, it falls within the domain of architecture to correct this evil so common in our country. Abroad, there is greater regulation, therefore a better order. Beauty is an important factor in the field of architecture and he who does not recognize his obligations to the community, he who fails to discharge his duty in this respect, is unworthy of the title of Architect."

The addition of orderliness, proportion and distinction to structure is the distinctive contribution of the architects to a building problem, and this contribution distinguishes the practice of architecture. This sharp distinction between the practice of architecture by architects and the designing of buildings by those without the architectural training and background should be kept very clearly in mind. It has been said that architecture begins where structure leaves off, but that is not quite so, for architecture is based on structural forms and uses and arranges them in pleasing and proper proportion. If by their practice of architecture, the architects do not invest the buildings with charm and if they neglect to consider them with reference to their surroundings and their placement on property, then they have been unkind to the owners and to their communities.

Business Procedure Necessary

The practice of architecture carries other grave responsibilities, and the responsibility becomes more and more complicated in their details and appointments. To meet these increased obligations, the architects are being forced to abandon their cherished hopes to practice architecture as artists, and to make architecture a pure art. If the architects are to perform the duties imposed on them by the construction industry and to meet efficiently and promptly the obligations they are according to the practice of architecture, then they must use business procedure in their profession. It is the architect's duty and responsibility to give accurate and responsible estimates of costs; to eliminate visionary and idealistic planning; to effect economies in construction and designing, so that materials will not be wasted and so that the erection of the buildings will be speeded; to prepare accurate and complete specifications and other documents, and eliminate therefrom the ambiguity and looseness that invite trouble and extras; to prepare their drawings and to make their certificates and notices promptly, so that costly and inexcusable delays will be avoided; to forward the laws regulating the construction and use of buildings; to assume without equivocation the responsibility for errors in the documents which they prepared, and to give the fullest cooperation, assistance and consideration to those who are operating under those documents. It is the obligation of the architects which must be met by the architects.

Other Responsibilities

But there are still other responsibilities that are inherent in the practice of architecture. The architects should be consulting experts in regard to building laws and restrictions and real estate values, and in regard to the obsolescence and depreciation of buildings and their equipment; and in regard to the cost of operating buildings devoted to commercial and industrial uses and the income that may be derived therefrom. They should know and understand thoroughly the methods of all private buildings, and should be advisers in that regard. And particularly it is their responsibility to advise regarding the useful purposes of proposed construction, in order that the flow of the owner's resources shall be protected and conserved, and that investments in unnecessary, untimely and wasteful buildings shall be

avoided. This latter responsibility is a serious obligation that should be foremost in the minds of every element of the industry, and concerted pressure should be exercised by them continuously, in order to regulate the flow of money into the construction industry, and to make impossible the vast inflation that occurs periodically in the construction of buildings. The sooner the industry recognizes that its stability and earning power is greater with an even flow of money into that industry, the quicker will the pressure of the groups be exerted to prevent uneconomic building. This is a major program that is commended to your earnest attention.

I think that Mr. Kahn in the address I have referred to summarized the architects' duties very clearly. He said it was their obligation

"To plan carefully so as to save waste and with a view to the future to make possible the expansion when necessary, to construct economically without resorting to cheap materials which in the end prove costly, to encourage the development of new materials and make use of each after careful investigation, to design logically so as to gain maximum aesthetic results, to serve the owner's interests to the best of one's ability and in a thoroughly business-like manner, to see to it that he obtains that which he is entitled to, to treat both owner and contractor fairly, and to have in mind at all times the aesthetic and practical welfare of the community."

Alas these things, as they seem to suggest the major responsibilities of the architectural profession to the construction industry. If I have set those responsibilities clearly before you, I hope you will get therefrom that our profession admit those responsibilities and assumes the obligations that are entailed. It intends to do its full duty to ever increase the competency and efficiency of its members and to make them fully qualified to maintain their rightful position and undertake their full responsibilities as a group in the construction industry. But when that is said and done, we must remember, and you as a group must remember, that severally we are but parts of one great unit of human endeavor, and that our thoughts and activities and our actions must be as joint partners in an undertaking and must be of the industry as a whole. This is our great responsibility.

JANUARY BUILDING PERMITS \$1,831,083

Building operations undertaken in San Francisco during the month of January involved an expenditure of \$1,831,083 as compared with \$1,431,893 for the corresponding period in 1930. These figures are based on building permits issued by the Department of Public Works.

Private building construction undertaken during the past month, totals \$13,495 and public building construction, \$1,017,588.

December, 1930, operations involved an expenditure of \$2,292,388 as compared with \$1,617,991 for the same month in 1929.

The following is a segregated report of the January, 1931, activities as compiled by the Bureau of Building Inspection, Department of Public Works:

Class	No. of Permits	Est. Cost
A	2	65,000
B	2	79,500
C	13	409,865
Frames	10	259,580
Alterations	349	3,972,580
Public Bldgs.	4	1,017,588
Total	486	\$1,831,083

THE OBSERVER

What He Hears and Sees on His Rounds

O. W. Rosenthal, representing the National Building Industries Bureau, put the following questions up to the industry—What is the answer?

Why is it that the so-called construction industry always takes its licking "laying down"?

Why is it that the so-called construction industry does not recognize the fact that there should be brakes and accelerators to control business trends as well as automobiles?

Why is it that the so-called construction industry considers every business depression inevitable, and that resistance would be without avail?

Why is it that the so-called construction industry is so completely dominated by forces from the outside?

Why is it that the so-called construction industry is so lacking in "cooperation consciousness" that even emergencies do not arouse it to action?

Why is it that each factor of the so-called construction industry considers itself a separate industry?

Why is it that the so-called construction industry is accepted as the second largest industry in the world, when actually it is merely a lot of individual industries supplying materials and service to the second greatest demand in the world?

Why is it that these factors of the so-called construction industry are not aware of the tremendous influence of coordinated effort, and that a clearing house of intra-industry problems and information is vital to their interests?

Why is it that the so-called construction industry is so lacking in "advertising consciousness" that the entire industry spends less for advertising than is expended for advertising one article of food?

Dr. T. W. MacQuarrie, president of the San Jose State College, in response to attacks made from the pulpit and in the city council chambers at San Jose, tells why local building trades mechanics are not employed exclusively on the new \$138,000 college gymnasium now in course of construction.

Dr. MacQuarrie cites the following reasons for not employing San Jose labor exclusively:

1. Funds used in building the gymnasium come from corporations in all parts of the State. The money is not strictly San Jose money.

2. There is no specification in the contract stating whom should be employed. The low bidders competed with 11 other bidders and submitted a very low figure, in which they probably allowed for use of their own labor.

3. A contractor can build more economically using a nucleus of labor which is accustomed to working with him, not necessitating a great amount of instruction.

According to word from Carson City, Nevada, the house committee on the state prison and asylum has been instructed by an assembly resolution to investigate the feasibility of establishing a cement plant at the state prison. In introducing the bill, its author declared that employment for the prisoners is necessary for their well-being and asked that a thorough investigation be made to determine whether a cement plant would pay and what effect it would have on labor.

While the legality of an architectural award to a member of the State Board of Architectural Examiners is being investigated in Sacramento, Supervisor E. J. Spaulding of the San Francisco Board of Supervisors charges that "unbusinesslike methods are being pursued and that certain architects are being favored" with regard to public structures for the City and County of San Francisco.

At the state capital the legality of the commission given to Frederick H. Meyer, president of the State Board of Architectural Examiners in the Northern District, to prepare plans for the \$500,000 state veterans' hospital at Yountville, is under investigation.

The San Francisco city attorney has been asked to submit an opinion on the legality of the present system followed by the Board of Public Works in awarding work to architects.

"The Board of Works has contracted for plans for a school and two health buildings even before the sites have been acquired," said Supervisor Spaulding.

"I don't believe that this is the right way of doing business. Architects are hired even before anyone knows just what is to be built. It is a foul and disgraceful practice of giving this work to friends and is stopped."

"Before accepting any plans submitted by architect or builder, submit them to your plumber," says a letter sent to prospective home builders in the San Francisco Bay District. The letter is sent out by the Domestic Research Bureau of the Gas Appliance Society, a bureau operated by Al Crane, under the direction of a committee composed of C. E. Babcock, Frank J. Klimm, L. C. Higgins and Frank Talcott. The letter is one of a series mailed out every week to prospective home builders, architects, real estate dealers and speculative builders. The letters impress upon their recipients the necessity for adequate gas stubs located throughout the house, properly constructed flues and vents of the right capacity and above all, the necessity of conferring with the plumbing and heating contractor before proceeding with any building plans.

Secretary of Labor Doak advises the House labor committee his department has discovered many instances where contractors on government projects have imported cheap labor and reduced wage levels, contrary to agreements made with President Hoover when the depression began. He urged enactment of a bill introduced by Representative Bacon, Republican, New York, requiring that contractors for public buildings pay the existing wage level of the community, saying it was needed as an emergency measure.

To outline plans for its current sales campaign to 14,000 employees scattered over 61,000 square miles of territory in north-central California, the Pacific Gas & Electric Co. is putting on a traveling road show which "pays" at an important point in the district. With all the scenery and properties packed on a 3-ton truck, the show is traveling from Eureka and Redding on

the north to Salinas on the south under the direction of H. M. Crawford, sales manager of the organization. Speeches by the top executive of the Pacific Gas & Electric are presented at each stop by means of electrical recordings. These are followed by one-act playlets which set forth the possibilities for sales in the domestic industrial, commercial, agricultural fields.

Most of the social and human problems in industry are but surface symptoms of disorders deep-seated in the industrial structure, according to a committee of the American Society of Mechanical Engineers who have united with members of the Yale Institute of Human Relations study human problems in industry. Professor Elliott D. Smith, of Yale, chairman of the new work, thinks "unemployment, for instance, is not a single disorder, but a common symptom of many, among others of seasonal production, cyclical depression and an unabsorbed increase in production efficiency."

Finance is discriminatory, L. D. Davis gas appliance dealer, has filed suit againstameda court seeking to void the city's regulations governing the installation of types of gas appliances. Davis recites in his suit that the city resolution, adopted March 15, 1935, limits installation of gas appliances to those having the approval of the American Gas Association, which alleges is a business organized for profit under the jurisdiction of the state of Ohio.

Designed for greater facility a regulation of financing irrigation reclamation and water conservation districts throughout the state, creation of the California districts and curities commission of seven members appointed by the governor proposed in a legislative measure long studied today. The bill, introduced by Senator Bradford Crittenden, carries an appropriation of \$100,000.

"The month of January has justified expectations of an improvement in the business situation," says a report of the National City Bank of New York just issued. "Activity in steel and automobile industries has increased and has been paralleled by a general broadening out of business in other important lines." Employment reports indicate a substantial expansion of payrolls in the manufacturing centers. Sentiment among business men is distinctly more confident and in general the business outlook appears more hopeful than it has in some time."

A plan for a campaign of public relations for civil engineering work, as proposed by the committee on education of the public, was adopted by the board of directors of the American Society of Civil Engineers at a recent meeting in New York City. The directors authorized an appropriation for expenses in connection with this move. The committee has laid down an outline of radio talks and talks before technical groups, also newspaper articles for general distribution.

Charles R. McCormick Lumber Co. has filed a complaint with the Federal Commission against Southern Pacific Company, alleging that defendant carrier collected unjust and unreasonable rates for the transportation of fire carloads of lumber from San Francisco to Peninsula Point, including switching charges of \$2.70 per car. Complainant has the Commission to order defendant carrier to refund the alleged excessive charges.

ALONG THE LINE

Geo. D. Macomber, former city engineer of Oakland and recently elected county surveyor of Stanislaus county, has sold his private practice to Edward K. Hussey, newly appointed city engineer of Oakland. H. Belcher of Oakland, will be associated with Hussey.

Robert D. Strauch succeeds Robert Tom as county surveyor of Tuolumne county with headquarters at Colusa.

Asa G. Proctor, for the past sixteen years county surveyor of Yolo County, has entered a general engineering business to operate under the firm name of Proctor & Miller, with headquarters in the Bank of America building, at Woodland. Proctor's associate is John C. Miller, for the past twelve years sanitary engineer for the city of Richmond.

Horace D. Gates, for nearly thirty years connected with the Bureau of Engineering, San Francisco Department of Public Works, died at Sherman, Calif., February 1.

O. P. Haggerty has been elected president of the San Francisco Labor Council. He will be assisted by S. T. Conlon, vice-president; John A. O'Connell, secretary-treasurer, and Patrick O'Brien, sergeant-at-arms.

William G. Pennycook, inspector for the department of electricity, will resign on February 11 after 40 years in the city service. Workers in the department will tender their retiring tribute a banquet at the Elks Club the evening of that day. From 1914 to 1917 Pennycook was chief inspector of the department. He will retire at the age of 70 under civil service regulations.

John S. Kenney, formerly San Francisco representative of Fairchild Aerial Services, Inc., is now associated with Joseph A. Kitts Co., San Francisco, concrete technologists.

Tommaso Jose Blas, 251 Kearny St., San Francisco, has been granted a Professional Certificate to practice architecture by the California State Board of Architectural Examiners, Northern District, it is announced by Albert J. Evers, secretary of the board.

Leonard E. Kaufmann has been appointed consulting architect for Boulder City, Boulder Canyon project, Nevada, for the Bureau of Reclamation.

E. R. Martel, professor of civil engineering at California Institute of Technology, Pasadena, and a member of that faculty since 1918, has been promoted to professor of structural engineering.

Billboard companies operating in San Francisco failed to keep an agreement to use pictures of women in their cigarette advertising, Mayor G. W. Wilson declares. He has an ultimatum the mail demanding immediate removal of such cigarette advertising, and the alternative of having all billboards ordered out of Hanford.

HERE—THERE EVERYWHERE

A bill being considered in the Ohio legislature would place a tax of three cents a square foot on billboards. Ninety per cent of this revenue would go to the state and ten per cent to the county.

At the annual meeting of the Sacramento Builders' Exchange last Monday night the following directors were elected: Orland Close, W. E. Truesdale, Al. W. Simmonds, E. B. Moor, A. H. Wagner, John Redmond, Earl Markwart, Fred Benton, Alfred Gustafson, John Hawley, P. D. Reese.

The Electrical Workers Union of Chicago recently loaned unemployed members an aggregate sum of \$20,000, this to be paid back when the men went to work again. The money was raised by assessing employed members of the unions ten per cent of their wages.

The National Home Modernizing Bureau is planning a re-organization. A new nation-wide drive will be made for support and active work for modernizing.

Six hundred and seventy-five registered master plumbers were doing an active business in Los Angeles and its annexed suburbs on January 1, 1931, according to data compiled by W. B. Jones of that city.

Oakland city council has given final passage to the ordinance permitting plumbers to pay their license fees quarterly instead of annually, as was demanded in the old ordinance.

An ordinance regulating the erection of frame buildings so as to guard against the destructive termites has been given final passage by the city council of Burlington.

William N. Doak, Secretary of Labor, has been elected chairman of the Federal Board of Vocational Training, succeeding Senator James J. Davis, who served in this capacity for nearly ten years.

Legislation requiring all labor employed on public buildings to be bona fide residents of the state, is recommended by Governor Douglass of Delaware in his message to the General Assembly.

BERKELEY BUILDING PERMITS IN JANUARY

Berkeley reports the issuance of 83 building permits during January, 1931, as compared with 107 for the corresponding period last year. January, 1931, valuation registered \$90,060, as compared with \$434,054 in 1930. Following is a segregated report of the January, 1931, activities:

	No. of Permits	Est. Cost
1-story dwlg. s.	9	\$31,250
2-story dwlg. s.	3	25,900
Private garages	8	1,665
Garages Class C	3	850
Garages, Class A	1	1,000
Miscellaneous	1	250
Additions Class C	1	100
Additions	12	16,710
Alter & repairs	45	12,935
Total	83	\$90,060

TRADE NOTES

F. H. Medart has again assumed management of the San Francisco branch of the Fred Medart Manufacturing Company, specializing in steel lockers, shelving and cabinets, gymnasium and playground apparatus.

John Rolla has opened quarters at 2336 Broadway, Redwood City, and will engage in a general electrical business, operating under the name of the Coast Electric Company.

Weaver-Henry Corp., of Los Angeles, specializing in asphalt roofings and shingles, has opened a branch at 101 North Fifth Street, Portland, Ore., with Charles E. Sand as manager. The Seattle branch is located at 2607-11 Second Avenue, with Harry S. Martin in charge.

With the closing of the United Paint Company in Stockton, Jack Ford, manager, announces that the Martin-Senour line of paints will hereafter be handled in that city by the San Joaquin Lumber Company. Ford will be in charge of the lumber company's paint department.

\$680,447 FOR JANUARY BUILDING

A. S. Holmes, city building inspector of Oakland, reports the issuance of 258 permits in January, 1931, for improvements involving an expenditure of \$680,447 as compared with 253 permits for the corresponding period in 1930 when the total registered \$466,592. Following is a segregated report of the Oakland permit total for the month of January, 1931:

Class. of Bldgs.	No. P'mts	Cost
1-story dwellings	31	\$ 98,825
1 1/2-story dwelling	1	4,500
2-story dwellings	4	23,150
2-story flats	2	15,600
3-story apartments	4	280,000
1-story restaurant	1	2,000
1-story com. sta.	1	75
1-story warehouse	1	1,000
1-story stock room	1	700
1-story serv. sta.	1	300
1-story tile ser. sta.	1	150
1-story tile garage	1	500
1-story brick chapel	1	30,000
1-story brick ser. sta.	1	900
1-sty. br. gar. & shop	1	2,500
1-story brick garage	1	3,000
1-sty. steel ser. sta.	3	2,500
6-story cond. apts.	1	80,000
Concrete foundation	1	38,400
Billboards	6	630
Electric signs	47	14,225
Roof signs	3	2,500
1-story gar. & sheds	39	6,735
Additions	34	12,794
Alters. & repairs	71	59,063
Total	258	\$680,447

A city-wide campaign has been started by the Northwest Master Painters' Association of Portland, Ore. in cooperation with the Paint and Varnish Club with a view to relieving the unemployment situation.

Property owners are persuaded to have their interior decorating done now when it will stimulate business for the shops and thus create work for the unemployed journeymen and apprentices. By having their work done early it was pointed out, the householders will insure themselves more careful and painstaking decoration than they could hope for after the spring rush is on.

TRADE LITERATURE

Bulletin No. 152, issued by the Federal Board of Vocational Education, tells of present practices in vocational industrial teacher-training institutions of granting college credit for trade experience, for teaching experience in trade schools, and for supervisory and administrative experience in vocational education. The bulletin was prepared by Theodore Anthony Siegle, M. A. A limited number of copies of this bulletin are available for free distribution and will be mailed on individual request.

"Chemical and Mechanical Utilization of Activated Carbon in Water Purification," a paper presented by A. S. Behrman and H. B. Crane before the American Water Works Association, has been reprinted as technical bulletin 6603 by the International Filter Co., 53 East Van Buren St., Chicago, Ill. The paper deals with Hydrocaro, the special brand of water-purification carbon sold by this company, and describes its field of usefulness. Underlying principles to be followed for proper design and operation are stressed, and mention is made of results secured from installations. The cost of treatment is discussed at length.

BUILDING CODE FOR OREGON STATE BEFORE LEGISLATURE

Another attempt is being made at the present session of the Oregon State Legislature to secure passage of a state building code for Oregon. The proposed code has been suggested by the Building Safety Code Committee of Oregon, cooperating with the Oregon League of Cities, the Oregon Building Congress, State Master Plumbers' Association, Journeymen Plumbers' organizations, State Electrical Contractors, and Journeymen Electricians, and is printed in the form of a 12-page printed pamphlet dated December 1, 1930.

A proposed state building code presented before the 1928 Oregon legislature failed of passage.

The present bill contains a structural, electrical, plumbing and sewer contractors' code, and provides an elaborate system of license requirements which, together with fees received for permits, are the means provided for expenses and salaries in the state building department.

Persons, firms, corporations or municipalities engaged in certain lines of endeavor are exempt from any of the provisions of the proposed code. This includes public utility companies which supply telephone service and electricity, also "municipalities which have a structural, electrical and plumbing code equal to this code."

The Pacific Coast Building Officials' Conference Uniform Building Code, "current edition" is taken as the structural part of the proposed building code with certain exceptions. For the electrical provisions, the rules of the Bureau of Standards, U. S. Department of Commerce, are referred to; and for plumbing provisions, the recommended minimum requirements for plumbing from the same source.

December wholesale prices of six standard plumbing fixtures for a six-room house, as ascertained by the Bureau of the Census from reports of 12 representative manufacturers and 4 wholesalers, averaged \$38.52 as compared with \$36.68 in November and \$100.53 in December, 1929.

PURCELL, STATE HIGHWAY ENGINEER, TO RESIGN IS RUMOR

Persistent rumors that State Highway Engineer C. H. Purcell is considering flattering proffers of an executive position with a private organization has made Governor Rolph apprehensive lest he should lose the head of the California highway division at a crucial moment, according to word from Sacramento.

The reports that a danger exists



that Purcell may be wooed away from the state service continue in spite of the fact that a bill has been introduced in the legislature to increase the salary of the highway engineer from \$10,000 to \$15,000 a year. Governor Rolph, however, is credited with the statement that "the state cannot afford to allow any private company to take our highway engineer from the state service."

The state at the present time is in the midst of a tremendously large highway building program, planned principally and brought up to its current state of completion under Purcell's direction. The governor is known to be extremely desirous of retaining Purcell to continue this construction schedule, and will doubtless give his approval to the \$5000-a-year increase in salary if that would be an incentive for Purcell to continue in the service.

TWO BILLIONS FOR ROADS DURING 1931

Expenditure for road construction during 1931 will reach a new high record in the United States, J. T. Pauls of Washington, senior testing engineer of the United States Bureau of Public Roads, told the opening session of the Western States Asphalt Conference meeting in Salt Lake City last Monday.

He estimated more than two billion dollars would be spent on public roads in the 48 States and said thousands of men will be employed during the summer, relieving the unemployment situation.

COST ESTIMATES ON W. P. R. R. EXTENSIONS

Detailed cost estimates of the Western Pacific Railroad's extension from Niles to San Francisco, just authorized by the Interstate Commerce Commission, are revealed in dispatches received from Washington, D. C.

These figures show that the extension may cost \$7,997,353 or, if an agreement is reached with the Southern Pacific for use of that company's Dumbarton bridge and portions of approaching track, the cost will be cut to \$4,832,353.

Estimates prepared by Western Pacific engineers divide the proposed extension into two parts: the first embracing the line from San Francisco to Redwood City and including a branch to a cement plant near there and the second embracing the line from Redwood City to Niles and including the cost of a bridge across the southern end of San Francisco bay.

Most of the first part is estimated at \$4,167,786, of which \$533,822 is for right of way, \$1,094,026 for grading excavation and filling; \$1,189,918 for bridges, trestles and culverts; \$22,757 for tunnels, and \$23,149 for interest during construction.

The cost of the Redwood City-Niles section is estimated at \$3,829,567, of which \$340,353 is for right of way; \$327,573 for grading, excavation and filling; \$2,226,457 for bay crossing and \$124,132 for interest during construction.

The Interstate Commerce Commission's decision estimates at 10 percent of the total cost could be eliminated if trackage rights over the Southern Pacific bridge and a few miles of track at each end of the span could be secured. By making a connection near Henderson station, west of the bay, and between Niles and Centerville on the east, it is pointed out, 15.7 miles of new construction would be eliminated and the total cost would be reduced by \$3,665,000.

The authorization provides that the bridge be built only in the event the Western Pacific is unable, by April of this year, to secure trackage rights to its use from the Southern Pacific. It also provides that no portion of the extension may be operated until all of it has been built or trackage rights secured which will give "a continuous line from San Francisco to Niles."

Harry M. Adams, president of the Western Pacific, has announced that work on the extension will start as soon as possible after negotiation with the Western Pacific.

SACRAMENTO BUILDING PERMITS IN JANUARY

Eighty-seven building permits were issued in Sacramento during the month of January for improvement involving an expenditure of \$220,93 as compared with 115 permits for the corresponding period in 1930 when the total registered \$111,527. February is a segregated report of the January 1931, activities:

1-st 1-fmly dwelling	14	\$ 57.05
2-st 1-fmly dwelling	8	51.70
Business buildings	2	69.00
Service stations	2	3.20
Private garages	10	1.60
Sheds, etc.	2	1.20
Electrical signs	8	2.79
Business Reprs & Add	17	25.33
Dwelling reprs & Add.	24	9.53

Total 87 \$220,93

**IMPROVEMENT IN
INDUSTRY REPORTED
BY A.I.A. COMMITTEE**

Improvement in the building industry with rising prices, is seen by the architects' Emergency Committee for a Region of New York, of which Ian Clarence Levi, fellow of the American Institute of Architects, is chairman.

This Committee, formed for the primary purpose of relieving unemployment among architectural draftsmen in the metropolitan district, has been conducting an investigation during the past few weeks to ascertain the state of the building market, especially with respect to private residential work in a vicinity of New York City.

It is the opinion of the Committee at buildings can be built today considerably cheaper than was possible a year ago, and in all probability at a lower average price than will prevail here or two hence.

Whereas a few individuals always take advantage of the low prices prevailing at the bottom of a business depression, and profit handsomely on the exercise of their judgment of the market, it is pointed out, the vast majority wait until prices have advanced, and the bargains have gone.

The Committee advises that a careful checking of present building costs is essential by who contemplate the erection of a building at a comparatively early date. If the project has not been started, it is suggested that the matter be discussed with a competent architect, and also that in those cases where the drawings have previously been made and prices secured within the past two years, that the contractors be invited to refigure the bids on the basis of the prevailing prices for the materials and items of equipment required for the building.

Though the scale of wages, according to the Committee, paid to skilled labor in the building trades has not been officially changed in the recent past, still by reason of the fact that contractors have greatly reduced their prices and in so doing have retained their best men, they are in a position to get the best results for the lowest cost.

"The best informed opinion in building circles," the Committee asserts, "looks forward to a gradual resumption of building activity, and anticipates that, as this movement gathers momentum, prices will rise as they always have in corresponding periods of the past.

"Buildings today are a bargain, provided, of course, that there is need for the building. Nothing is cheap if you don't need it, but to those who are genuine requirements for new structures, either for residence or business, the present offers an exceptional opportunity. This is a buyer's market."

Reports of new orders for fabricated structural steel for the week ending January 10, 1931, were received by the U. S. Department of Commerce from 94 establishments, whose capacity represented 45.8 per cent of the total capacity of all plants in the United States. The bookings reported by these establishments amounted to 29,144 tons, representing 48.5 per cent of the total capacity of the reporting establishments. Reports of shipments of fabricated structural steel for the same week were received from 101 establishments, whose capacity represented 45.2 per cent of the total capacity of all plants in the United States. The shipments reported by these establishments amounted to 16,576 tons, representing 46.9 per cent of the total capacity of the reporting establishments.

**PLUMBERS' BOND
CUT AT PORTLAND**

The city commissioners of Portland, Ore., have adopted an ordinance reducing the bond required by the city of master plumbers from \$4,000 to \$2,500, saving each master plumber \$1,500 a year. The ordinance was adopted on petition of the Portland Association of Master Plumbers.

In December, 1921, the city council passed an ordinance requiring each master plumber in business to file with the city auditor a \$4,000 bond, \$2,500 of which was to guarantee compliance with city ordinances in the construction, installation, alteration and repair of plumbing and drainage work, \$500 as a guarantee against water wastage and \$1,000 to guarantee street replacement.

Compliance bond is needed only for protection of residence owners and owners of small structures as on all larger jobs owners require a job bond to cover satisfactory performance of the work, and in the nine years since the enactment of the ordinance it is said about \$200 has been collected on such bonds. During that time Portland master plumbers have paid about \$20,000 needlessly. A \$1,000 bond, the minimum obtainable, has been proven more than ample. The new ordinance reduced this one item to \$1,000 and levied the other two at \$500 and \$1,000 respectively, making a total of \$2,500 in place of \$4,000.

The new ordinance carried an emergency clause and became effective January 1, 1931.

**STEEL PLATE
INSTITUTE ELECTS**

W. S. Wheeler of the Pennsylvania Engineering Co. of Newcastle, Pa., has been elected president of the Institute of Steel Plate Construction. Other officers elected to serve for the ensuing year are: Vice-President, Arthur Caverno, Lancaster Iron Works, New York; Treasurer, B. P. McDaniels, McClinton-Marshall Co., Pittsburgh, Pa.; Secretary, J. W. Pounshey, New York.

The program outlined for the Institute includes the following:

1. Promoting among the members of the organization an intelligent and cordial understanding of the industry's problems.
2. Technical research to develop new uses and broader markets for steel plates.
3. Collection and dissemination of information on all matters of interest to the industry at large and about the industry in which the general public is concerned.
4. Establishment in the industry of uniform and ethical standards of practice, and in trade relations usages that are fair to all parties.

Promotion of uniform standards and specifications especially as relates to construction that affects the general welfare.

The Insurance Center Building of San Francisco, financed in 1926 by S. W. Straus & Co., reports net earnings, after all charges, of \$61,000 for 1930. Interest charges of \$20,800 were earned, nearly three times. The company retired \$5500 in principal during the year, reducing the total outstanding to \$255,000. S. W. Straus & Co. offered \$340,000 in first mortgage 6 1/2 per cent bonds in 1926. The issue matures in 1941. The building corporation reports that the structure is 100 per cent occupied.

**GARRISON STATES
HIS POSITION ON
SECONDARY ROADS**

Added assurance that the roads selected after careful survey by the State Highway Commission for inclusion in the Secondary Highway System, would undoubtedly pass the Legislature as suggested, is given by Col. Walter E. Garrison, Director of the State Department of Public Works. Col. Garrison, addressing the members of the Sacramento Valley Council of the State Chamber of Commerce, spoke in response to a report by Carl Lamus of Sacramento, Chairman of the Highway Committee of the Council, who stated that the Regional Committee was unanimous in asking that the roads be included in the secondary system, as designated by the engineers.

"I was very glad to learn today that you had endorsed our program for Secondary Roads in California," Garrison stated. "During the last few days people have come to me from all over California, requesting that a road in their community be placed in the Secondary System. It would only mean that it would be a paper road, as the State has no money to take any more roads into the Secondary System. Therefore, it seems to me that it would be a very foolish thing to ask the State Highway System to take in roads on which they cannot do any work, because as soon as we take in roads, the County steps maintaining them. I do not want a mile of road in the State Highway system that I cannot maintain."

The adoption of the program by the present Legislature, he was pointed out by the State Chamber of Commerce, will conclude many years endeavor to bring about the designation of secondary highways by engineering survey, and will bring together for the first time, all sections of the State in a declaration of satisfaction on a unified program.

The designated roads to be included in this program, it was further pointed out, would give the Southern section of the State a three to one ratio in mileage to be included in the secondary highway system over the Northern section, until such time as there is an equalization of mileage in all sections of the State.

**BRIDGE RIGHTS
ARE TRANSFERRED**

Andrew Mahoney and Oliver Olson, San Francisco lumber operators and principal owners of stock in the Richmond-San Rafael Ferry Company, are reported to have taken over the franchise held by Oscar Klatt to construct a bridge from Richmond to San Rafael.

The franchise given to Klatt by the Contra Costa County Supervisors is nearly expired and the new franchise holders propose to ask the county officials for an extension of time.

Under the new state law, if the franchise is not extended by the supervisors, the franchise holders will be compelled to ask the state for a franchise. Under the new state law the supervisors can not grant bridge franchises.

If the necessary capital is not raised in this state, the backers plan to go to the East coast to raise the funds.

Klatt was given the franchise by the supervisors two years ago for a bridge estimated to cost \$15,000,000. Under the franchise grant the supervisors specified that construction of the span must be started within two years of its becoming effective, and this period expires on February 10,

Building News Section

APARTMENTS

Segregated Bids Being Taken.
APARTMENTS Cost, \$7000
OAKLAND, Alameda Co., Cal. NE
 Glenview and Woodruff Streets.
 One-story frame and stucco duplex (2
 4-room apartments).
 Owner and Builder—O. E. Jensen, %
 Harry K. Jensen, 354 Hobart St.,
 Oakland.
 Plans by Harry K. Jensen, 354 Hobart
 St., Oakland.

Preparing Working Drawings.
APARTMENTS Cost, \$—
STOCKTON, San Joaquin Co., Cal.
 Four-story and basement Class C con-
 crete and brick apartments (52
 apts.)
 Owner—Mr. Covelecheck
 Architect—Max Maltzman, Union
 Bank Bldg., Los Angeles.
 It will contain 52 apartments and a
 basement garage; concrete basement
 story, brick walls, stucco and art
 stone exterior, composition roofing, or-
 namental iron, tiled bathrooms, gas-
 steam radiators, incinerator, auto-
 matic sprinkler system, refrigeration
 system.

Contract Awarded.
APARTMENTS Cost, \$90,000
OAKLAND, Alameda Co., Cal. West
 Bellevue Ave. N Grand Ave.
 Six-story reinforced concrete apts. (77
 rooms).
 Owner—A. C. Nelson, 488 35th Street,
 Oakland.
 Architect—C. N. Burrell, Perkins St.,
 Oakland.
 Contractor—H. Nelson, 3730 Atlas Ave.,
 Oakland.

Sub-Bids Being Taken.
APARTMENTS Cost, \$60,000
OAKLAND, Alameda Co., Cal. West
 Sixth Ave. N E-Eighteenth St.
 Three-story and basement frame and
 stucco apartments (60 rooms).
 Owner and Builder—M. Elgart, 174
 41st St., Oakland.
 Plans by L. F. Hyde, 372 Hanover St.,
 Oakland.

Bids To Be Taken Within a Few Days
APARTMENTS Cost Approx. \$20,000
SANTA ROSA, Sonoma Co., Cal. 7th
 and A Streets.
 Two-story frame and stucco apart-
 ments (6 apts).
 Owner—F. Gambini and S. Testorelli,
 Santa Rosa.
 Architect—Wm. Herbert, Rosenberg
 Bldg., Santa Rosa.
 Bids will be taken from selected list
 of local contractors.

Plans Completed.
APARTMENTS Cost, \$100,000
LOS ANGELES, Cal. No. 411 S. Ram-
 par Blvd.
 Five-story Class B brick apartments
 (54x108 feet).
 Owner and Builder—Nathan Kolkey,
 1202 N. Hicks St., Los Angeles.
 Architect—Max Maltzman, Rives
 Strong Bldg., Los Angeles.

Completing Plans.
APARTMENTS Cost, \$150,000
SANTA MONICA, Los Angeles Co.,
 Cal. Fourth St. and Broadway.
 Four-story and basement Class B con-

crete and steel apartments with
 face brick front (100x100 feet).
 Owner & Builder—D. S. McEwan, 313
 Marine Ave., Ocean Park.
 Architect—Arthur S. Barnes Co., Title
 Insurance Bldg., Los Angeles.

BONDS

SATICOY, Ventura Co., Cal.—Saticoy school district will hold an election on February 17 at which time it is proposed to vote bonds of \$115,000 for new school. Roy C. Wilson, 112 S. Mill St., Santa Paula, architect.

SPARKS, Nevada—Washoe County Commissioners will call election to vote bonds of \$25,000 to finance erection of new county library in Sparks. The structure will be erected in B street, between 8th and 9th Sts

BRENTWOOD, Contra Costa Co., Cal.—Election will be called shortly in the Brentwood Grammar School District to vote bonds to finance erection of a 3-classroom addition to the present grammar school.

FRESNO, Fresno Co., Cal.—County Grand Jury, in annual report to the supervisors, recommends erection of a new Hall of Records in connection with the county courthouse. A bond issue is suggested as means of financing the project.

SALINAS, Monterey Co., Cal.—Until February 13, bid will be received by county supervisors for the purchase of the \$9000 bond issue of the El Sausal School District; proceeds of the sale to finance school improvements.

VISALIA, Tulare Co., Cal.—County supervisors sell \$7000 bond issue of Linwood School District for premium of \$25.50; proceeds of sale to finance school improvements.

SALINAS, Monterey Co., Cal.—Salinas City School District defeats proposal to issue bonds of \$154,000 to finance erection of additions to schools, preliminary plans for which were prepared by Architect John J. Donovan, 1916 Broadway, Oakland.

SKILSAW Portable Electric Hand Saws (4 models).

SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attachments.

SYNTRON Portable Electric Hammers (4 models, motorless).

MALL Flexible Shaft Machines (50 models).

Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric Tools.

1248 Mission St. Underhill
 San Francisco 7662
 SALES . SERVICE . RENTALS

CHURCHES

Bids To Be Taken In One Week.
CHURCH Cost, \$13,000
SAN FRANCISCO, Thirty-second St.
 and Ulloa Street.
 One and two-story frame and stucco
 church with slate roof (to sea
 400).
 Owner—St. Stephens Protestant Epis-
 copal Church.
 Architect—Chas. Strothoff, 2774 15th
 St., San Francisco

Preparing Working Drawings.
CHURCH Cost, \$25,000
SAN FRANCISCO, Bush Street near
 Divisadero Street.
 One-story frame church.
 Owner—West Side Christian Church.
 Architect—Betz, Winter & Maury, 21
 Post Street.

It is expected to call for bids in about thirty days.

Contract Awarded.
CHURCH Cost, \$50,000
SAN MATEO, San Mateo Co., Ca
 Fulton and Ellsworth Aves.
 One-story frame and stucco church
 with tile roof (auditorium to sea
 350) (Mission type).

Owner—First Congregational Church
 Architect—Kent & Hass, 525 Marke
 St., San Francisco.

Contractor—H. H. Larsen Co., 64 Sout
 Park, San Francisco.
 Sub-bids will be taken in about one
 week.

Plans To Be Prepared.
CHURCH Cost, \$25,000
NAPA, Napa Co., Cal. SE Third an
 Pacht Sts.

Reinforced concrete church.
 Owner—Episcopal Church, Napa.
 Architect—C. Leroy Hunt, Napa.
 Will C. Keig, Napa, is chairman of
 the building committee.

Plans To Be Prepared.
CHURCH Cost, \$40,000
SAN PABLO, Contra Costa Co., Cal
 Church and Market Streets.
 Church (Mission style).
 Owner—St. Pauls Catholic Church
 Rev. Eysto Tozzi, San Pablo.
 Architect—John Foley, 707 5th Ave
 San Francisco.

The site of the new church is near
 the present St. Pauls church and upon
 its completion the old church will be
 placed in repair and used for a hal

Plans Being Figured.
CHURCH Cost, \$206,000
PORTLAND, Oregon. NW West Par
 and Columbia Street.
 Concrete and brick church.
 Owner—Sixth Church of Christ Sci
 entist.

Architect—Morris H. Whitehouse an
 Associates, Railway Exchange
 Bldg., Portland, Ore.

FACTORIES AND WARE- HOUSES

FRESNO, Fresno Co., Cal.—Bette
 Buy Grocery Co., 420 Broadway, has
 purchased the property of the West
 ern Clay Products Co. at H and Ven-
 tura Streets, and plans immediat
 construction of office and warehouse
 addition to contain approximately 20,
 000 square feet.

Contract Awarded.
OPERATIONS Cost, \$25,000
ROCKTON, San Joaquin Co., Calif.
 448 North Point St.
 Iterations and additions to 2-story
 bakery (18,869 sq. ft.) plant,
 west—Kern's Bakery Plant, pre-
 mises.
Architect—Davis-Pearce Co., Grant &
Weber Sts., Stockton.
Contractor—L. S. Peletz, 1660 West
Acacia St., Stockton.

OAKLAND, Cal.—Frank A. Seiber-
g, president of the Seiberling Rub-
ber Co., a recent visitor in the East-
ern District, announced he would
erect a plant in Oakland costing \$2-
0,000 "immediately upon the relief of
the depression in the automotive in-
dustry." The company acquired a
0-acre site of land on Jones Avenue
between E 14th St. and the Oakland
port, about two years ago.

Contract Awarded.
MILER HOUSE Cost, \$12,000
CONTRA COSTA Co., Calif.
 6-house reinforced concrete boiler
 house (steel trusses).
Owner—Associated Oil Co., 79 New
Montgomery St., San Francisco.
Plans by Eng. Dept. of Owner.
Contractor—Viladsen Bros., 417 Mar-
ket St., San Francisco.
 sub-bids will be taken in 1 week.

Plans Being Completed.
MODELING Cost, \$—
ROCKTON, San Joaquin Co., Cal.
 model six-story brick building.
Owner—Liquid Sugar Corp., Ltd. (J. M.
Melvin), Financial Center Bldg.,
San Francisco.
Plans by Eng. Dept. of Owner.
 bids will be taken from a list of
 section contractors in about 2 weeks.

MERRA BELLA, Tulare Co., Cal.—
Bella Refining Co., H. P. Mit-
chell of Long Beach, president, has
started work on a site in Campo
and colony preliminary to the erec-
tion of the first unit of an oil re-
fining plant to handle 50 barrels of
crude oil daily. Cost of the first unit
is about \$10,000.

February 5, 1931
 Plans Being Figured—Bids Close Mar.
 3, 2 P. M.
LIVESTOCK BLDG. Cost, \$—
SACRAMENTO, Sacramento Co., Cal.
 State Fair Grounds.
 1-building (additional) Livestock
 building (No. 2).
Owner—State of California.
Architect—State Department of Pub-
lic Works, Division of Architect-
ure, Geo. E. McDougall, state arch-
itect, State Office Bldg., Sacra-
mento.
 The Building is one-story with con-
 crete foundations and floors, brick
 walls, steel roof construction with tile
 composition roof. The total floor
 area is approximately 63,000 sq. ft.
 Separate bids will be entertained for
 following segregate parts of the
 work and combinations thereof:
 General Work, embracing all
 benches of the construction other
 than Plumbing and Electrical.
 Electrical Work.
 Plumbing Work.
 Complete Mechanical, including
 Plumbing and Electrical work.
 See call for bids under official pro-
 cedural section in this issue.

Contracts Awarded.
CONCRETE BLDG. Cost, \$200,000
CONTRA COSTA Co., Calif.
 1-up of concrete hollow tile, brick
 and corrugated iron manufacturing
 buildings (to manufacture
 evaporated milk).
Owner—Meyenberg, Inc., Solidad, Cal.
Plans by Eng. Dept. of Owner.
Contractor—H. H. Larsen & Co., 64
South Park, San Francisco.

Structural Steel and Miscellaneous
Iron—Judson-Pacific Co., 609 Mis-
sion St., San Francisco.
Steel Sash—Michel & Pfeffer Iron
Works, Harrison and Tenth Sts.,
San Francisco.
 There will be a pasterizing plant,
 etc.

Contract Awarded.
ASSEMBLY PLANT Cost, \$3,200,000
SEATTLE, Wash., Duwamish Water-
way.
Motor car assembly plant.
Owner—Ford Motor Company.
Architect—Albert Kahn, Inc., Detroit.
General Contract—Clinton Const. Co.,
923 Polson St., San Francisco.

Filling, Dredging, Removal of Docks—
Puget Sound Bridge & Dredging
Co., Seattle.

Plumbing and Heating, Oil Tanks, Gas
and Industrial Pipelines—Univer-
sity Plumbing and Heating Co.,
Seattle.

Railway Sidings—Stillwell Bros., Se-
attle.

Sprinkler System—Fire Protection &
Engineering Co., Seattle.

Electrical Work—Newberry Elec. Co.,
Los Angeles.

Concrete Piling—McArthur Concrete
Pipe Corp., New York City.
 Steel contract not yet awarded.

SANTA ROSA, Sonoma Co., Cal.—
Connors & Hanson, 742 Orchard St.,
Santa Rosa, desires sub-bids in con-
nection with the construction of a
group of service buildings to be erec-
ted at Santa Rosa for the Pacific Gas
& Electric Co. Group includes ware-
house, garage, shops, transformer
house, meter house, pole yard, etc.
General bids are now being received
and will be opened by owner on Feb.
3rd, 12 Noon.

Sub-Contracts Awarded.

SHOP Cost, \$—
RICHMOND, Contra Costa Co., Cal.
 One-story steel frame and brick shop.
Owner—Santa Fe Railroad Co.
Architect—Eng. Dept. of Owner (M. C.
Blanchard, Chief Engr.), Kerckhoff
Bldg., Los Angeles.
Contractor—Viladsen Bros., 417 Mar-
ket St., San Francisco.

Structural Steel—Herrick Iron Works,
18th and Campbell Sts., Oakland.

Wood Floor Blocks—Pacific Lumber
Co., 311 California St., S. F.

Plate Roof—Truscon Steel Co., Call
Bldg., San Francisco.

OAKLAND, Cal.—Young & Horst-
meyer, 461 Market St., San Francisco,
desire sub-bids in connection with
the construction of the two-story reinf.
concrete maintenance shop building to
be erected on 52nd Ave. and E 10th
St., Oakland, for the City of Oakland
School District from plans prepared
by the Building and Grounds Depart-
ment, Oakland. General bids will be
opened by owners on Feb. 10, at 4:15
P. M.

Prospective Bidders.
SHOP BLDG. Cost, \$30,000
OAKLAND, Alameda Co., Cal. Fifty-
second Ave. and E Tenth St.
 Two-story reinforced concrete main-
 tenance shop building.
Owner—City of Oakland School Dist.
Plans by Building and Grounds De-
partment, Oakland.
 Following contractors have secured
 plans:
 J. B. Bishop, 537 Athol St., Oakland.
 Emil Pearson, 829 San Luis Road,
 Oakland.
 E. T. Lesure, 87 Ross Circle, Oak-
 land.

N. H. Sjoberg & Son, Call Building,
 San Francisco.
 Alfred Olson, 631 Viona St., Oakland.
 A. Frederick Anderson, 1033 Long-
 ridge Road, Oakland.

George Petersen, 2208 24th Avenue,
 Oakland.
 Jacobs & Pattland, 337 17th Street,
 Oakland.
 Strehlow & LaVole, Central and
 Webster Sts., Alameda.
 Wm. Spivock, Hobart Bldg., San
 Francisco.
 Wm. C. Keating, 4209 Mountain
 Blvd., Oakland.
 J. B. Petersen, 4021 Agua Vista,
 Oakland.
 Geo. Swanstrom, 1723 Webster St.,
 Oakland.
 Young & Horstmeyer, 461 Market
 St., San Francisco.
 Bids are to be opened Feb. 10, 4:15
 P. M.

SAN JOSE, Santa Clara Co., Cal.—
Drew Canning Co., Ltd., of San Jose,
has been incorporated and is consider-
ing the erection of a modern canning
plant on a site yet to be selected.
Three sites are being considered. The
plant will involve an expenditure of
\$100,000, including equipment. Di-
rectors are: F. M. Drew of Sunny-
vale; L. J. Duffey of Niles, and Wm. F.
James of San Jose. The latter is
attorney for the company.

GARAGES AND SERVICE STATIONS

Contract Awarded.
STATION Cost, \$4500
FRESNO, Fresno Co., Cal. Mariposa
and Divisadero Sts.
 One-story steel frame service station.
Owner—R. Done, 317 Glenn St., Fresno
Architect—Not Given.
Contractor—J. T. Cowan, 750 Eliza-
beth St., Fresno.

Bids Opened.
AUTO AGENCY Cost, \$20,000
SACRAMENTO, Sacramento Co., Cal.
NE 22nd and Y Sts. (120x150-ft.)
 One-story brick Ford automobile
 agency.
Owner—Ellsworth Harrold, 712 12th
St., Sacramento.
Architect—Chas. F. Dean, California
State Life Bldg., Sacramento.
 Following is a complete list of bids:
 Guth & Fox, 1520 27th Street, Sacramento, \$15,956
 Yoho & Danger, Sacramento, 17,255
 Campbell Const. Co., Sacto., 18,612
 Geo. Hudnut, Sacramento, 18,677
 Azevedo & Sarmento, Sacto., 18,700
 C. J. Hopkinson, Sacto., 18,755
 M. R. Petersen, Sacto., 18,855
 H. W. Robertson, Sacto., 19,705
 Lindgren & Swinerton, Sacto., 19,945
 Bids held under advisement.

Contracts Awarded.
GARAGE Cost, \$16,000
REDWOOD CITY, San Mateo Co., Cal.
 El Camino Real.
 One-story reinforced concrete and
 steel garage (117 ft. frontage).
Owner—Kernan-Robson Co., deYoung
Bldg., San Francisco.
Architect—John McCool, 381 Bush St.,
San Francisco.
Lessee—Dearborn Motor Sales Co.,
Redwood City.

Structural Steel—Judson-Pacific Co.,
609 Mission St., San Francisco.

Reinforcing Steel—Pacifi Const Steel
Corp., 215 Market St., San Fran-
cisco.

Concrete Work—A. Dini, 187 Irvington
St., San Francisco.

Steel Rolling Doors—Rolph Mills Co.,
525 Market St., San Francisco.

Glass and Glazing—W. P. Fuller &
Co., 301 Mission St., San Francisco
 Other awards will be made shortly.

To Be Done By Day's Work.
SALES BLDG. Cost, \$15,000
SAN FRANCISCO, W West Portal
Ave. S Vicente St.

One-story class C auto sales building. Owner and Builder—Lang Realty Co., 310 Ulloa St. Plans by D. S. Adams, 310 Ulloa St.

Contract Awarded.
GARAGE Cost, \$—
SANTA BARBARA Santa Barbara Co., Cal. Carrillo St., bet. State and Chapala Sts.

Two-story masonry garage with steel trusses (85x116 feet)
Owner—Hollister Estates Co.
Architect—Henry W. Howell, 19 E Canon Perdido St., Santa Barbara.
Lessee—Ray Benson.
Contractor—Santa Barbara Constr. Co., Central Bldg., Santa Barbara.

Contract Awarded.
AUTO AGENCY Cont. Price \$15,996
SACRAMENTO, Sacramento Co., Cal.
NE Twenty-second and Y Streets (120x150 feet)
One-story brick F o r d automobile agency

Owner—Ellsworth Harrold, 712 12th St., Sacramento.
Architect—Chas F. Dean, California State Life Bldg., Sacramento.
Contractor—Guth & Fox, 1520 27th St., Sacramento.

GOVERNMENT WORK AND SUPPLIES

MARCH FIELD, Riverside Co., Cal.—Col. W. C. Gardenshire, constructing quartermaster, March Field, announces that an appropriation of \$744,000 will be available within the next thirty days for the construction work at March Field. The house has passed the bill and the senate will give the measure its approval before March 1, making the amount available at once. This money will be used in the construction of 36 non-commissioned officers' living quarters, costing \$257,400; 27 sets of officers' quarters, \$405,000; quartermaster's warehouse, \$45,000; quartermaster's utilities warehouse and shops, \$20,000; guard house, \$25,000; fire department house, \$15,000; garage, \$50,000; incinerator, \$500; gymnasium, \$40,000; post exchange, \$40,000; railroad spur, \$2000.

Plans Being Completed.
ELEVATOR SHAFT, ETC. Cost, \$—
MARE ISLAND Navy Yard, Calif.
Elevator shaft and lobby for naval hospital.

Owner—U. S. Government (Spec. No. 6309).

Plans by Bureau of Yards & Docks, Navy Dept., Washington, D. C.
The work includes excavation, concrete work, steel framing, hollow tile, stucco, wood, roof framing, tile roofing, electric work and heating. Applications for plans should be forwarded to the Commandant, Navy Yard, Mare Island. A check or postal money order for \$10, payable to the Chief of the Bureau of Yards and Docks, as security for the safe return of the drawings and specifications, should accompany the applications. Deposits and applications will be placed on file and drawings and specifications mailed as soon as they are available.

Plans Being Completed.
POST OFFICE Cost, \$725,000
LONG BEACH, Los Angeles Co., Cal.
NE American Ave. and Third St.
Two-story and basement steel frame post office, 135x109 feet (Spanish Renaissance type; granite, stucco and ornamental terra cotta facing)
Owner—United States Government.
Plans by Supervising Architect, Treasury Dept., Washington, D. C.
Bids will be asked shortly.

MARCH FIELD, Riverside Co., Cal.—Until 11 A. M., Feb. 13, bids will be received by Col. W. C. Gardenshire, constructing quartermaster, March Field, for construction of annexes to new hangars and installation of heating, lighting, compressed air and lavatories in hangars at March Field. Cost, \$75,000.

MARE ISLAND, Cal.—K. E. Parker Co., 135 South Park, San Francisco, at \$143,300, for work complete, awarded contract by the Bureau of Yards and Docks, Navy Department, under Spec. No. 6330, to erect barracks at Mare Island Navy Yard. All sub-lets on this work are in the hands of the contractors and will be let shortly.

CALIFORNIA.—Approximately \$2,500,000 will be expended by the Federal Government in the construction of postoffice buildings in California, of which ten will be in Central and Northern California and two in Southern California. These structures are: Alameda, \$75,000; Marysville, \$150,000; Monterey, \$150,000; Napa, \$140,000; Petaluma, \$165,000; Porterville, \$150,000; San Jose, \$455,000; Vallejo, \$185,000; Ventura, \$200,000; Visalia, \$150,000; Glendale \$455,000; Redlands, \$170,000.

Contract Awarded.
FOUNDATIONS, ETC. Cost, \$109,777
SEATTLE, Washington.

Owned by U. S. Government.
Owner—United States Government.
Architect—Supervising Architect, Treasury Dept., Washington, D. C.
Contractor—Schuler & McDonald, 1723 Webster St., Oakland

BERKELEY, Alameda Co., Calif.—Until February 17, 2 P. M., bids will be received by Supervising Architect, Treasury Department, Washington, D. C., for a survey of the \$40,000 site at NE Kittredge and Milvia Sts. for the proposed new Berkeley postoffice addition for which \$150,000 is available. Specifications are on file in the office of the Custodian at the Berkeley postoffice and are obtainable from the Supervising Architect's Office at Washington, D. C.

SAN FRANCISCO.—Until Feb. 13, 11 A. M., bids will be received by Constructing Quartermaster, Ft. Mason, for resurfacing roads and constructing cement sidewalks and curbs at Lettermen General Hospital. Spec. obtainable from above.

SAN FRANCISCO.—Until February 9, 10 A. M., under Schedule No. 928-11-198, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver one portable electric saw for cross cutting, rip sawing, mitring, and daddoing, with Timken roller bearings. Complete with ½-hp. motor, 110 volt, 1 cycle, single phase, alternating current. Complete with 14-in. face endless high speed belt, 10-in. all purpose saw, ripping gauge, mitre gauge, cut-off gauge, 9 ft. of extension cord with fittings and arbor wrench. Height of machine 34-in., size of table, 30-in. wide by 34-in. long, length of sawing frame from center of arbor to center of lower shaft 28-in. To be equal and similar to Fig. No. 12 as manufactured by Irvington Machine Wks., Portland, Ore.

LIVERMORE, Alameda Co., Cal.—Appropriation of \$1,000,000 to finance erection of a new 35-250-bed and 100-bed Veterans Hospital at Livermore is recommended by the House Committee on War Veterans' Legislation, according to word from Washington, D. C. In addition to the Livermore and Sutter hospitals additional California projects which are pending include a \$2,000,000 appropriation for a

neuro-psychopathic hospital in South San Francisco, a \$1,000,000 tuberculosis institution in some inland location, and a bill for a women's hospital to care for nurses and other women who played a part in the World War.

SAWTELLE, Los Angeles Co., Ca.—Director Hines of the U. S. Veterans Bureau has recommended the construction of an additional wing of the Soldiers' home hospital in Sawtelle to cost \$550,000.

SAN FRANCISCO.—See "Water works," this issue. Bids wanted for pumps and pipe and fittings. Bids to be received by Quartermaster Supply Officer, General Depot, Fort Mason.

SAN FRANCISCO.—Until February 9, 10 A. M., under Schedule No. 923-11-198, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 15,000 ft. E. M. Oregon Pine or Bigheart Fir lumber, No. 2, common rough 1x12-in., 10 and 12 ft. long.

PEARL HARBOR, T. H.—In addition to those previously reported, following are prospective bidders to erect seaplane hangar at Pearl Harbor, H., under Specification No. 6215, bid for which will be opened February 11, at Bureau of Yards and Docks, Navy Department, Washington, D. C.:
Virginia Bridge & Iron Co., Roano Virginia.

The Philip-Carey Co., Lockland Cincinnati, Ohio.
Hall-Hodges Co., Inc., 809 Citize Bank Bldg., Norfolk, Va.
Blaw-Knox International Corp., 2 Madison Ave., New York City.

SEATTLE, Wash.—As previously reported, Schuler and MacDonald, 1723 Webster Street, Oakland, at \$109,777 awarded contract by Supervising Architect, Treasury Department, to construct foundations for postoffice. Following is a complete list of bidders received:

Schuler & McDonald, Oakland, \$177,777.
Fedor P. Gjarde, Seattle, \$121,790.
Hedden Const. Co., Seattle, \$124,790.
Chrisman & Snyder, Seattle, \$116,614.
Pitton & Livgreen, Seattle, \$118,000.
Manson Const. & Eng. Co., Seattle, \$127,000.
Elvind Anderson, Tacoma, \$127,000.
Puget Sound Bridge & Dredging Co., Seattle, \$127,875.
General Const. Co., Seattle, \$128,000.
Harry Boyer Son & Co., Olympia, \$139,000.
A. W. Quist Co., Seattle, \$140,650.
Western Const. Co., Seattle, \$143,800.
Peter MacRae, Seattle, \$156,845.
Pacific States Const. Co., Seattle, \$156,850.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedule. Further information being available from the Navy Department Office, 100 Harrison St., San Francisco.

Bids Open Feb. 17
Mare Island, 3,000 pts. liquid raw polish; sch. 5029.
Mare Island, 2,600 lbs. ceresin wax and 1,900 lbs. carnauba wax; sch. 11.
Western yards, machine and wood screws; sch. 5000.
Western yards, locks; sch. 5029.
Mare Island, brass grommets and rings; sch. 5031.
Puget Sound, cotter and taper pins; sch. 5032.
Sawyer and Diegel, 3 gasoline tractor or industrial trucks; sch. 5049.
Western yards, crocus and emery cloth, flint and garnet paper; sch. 53.

Western yards, electric cable and wire; sch. 5027.
 Western yards, insulated cable and wire; sch. 5025.
 Mare Island and Puget Sound, indicators for combustible gases in air and glowers; sch. 5050.
 Western yards, magnet wire; sch. 5051.
 San Diego, 4 motor trucks; sch. 5053.
Bids Open Feb. 24
 Western yards, steel rivets and washers; sch. 5040.
 Western yards, nails, tacks and spikes; sch. 5039.
 Mare Island, 30,000 paint pails; sch. 5038.
 Puget Sound, acetone, aqua ammonia, borax and mercury; sch. 5035.

MARE ISLAND, Cal.—As previously reported, K. E. Parker Co., 135 So. Park, San Francisco, submitted low bid to the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6330, to erect barracks at Mare Island Navy Yard. Following is a complete list of bids: 1, work completed; 2, based on omission of fill and modifications in piping lines, etc.; 3, deduct for omission of porch and modification about doorway; 4, deduct for omission of refrigerating plant and cold rooms: K. E. Parker Co., 135 S. Park St., San Francisco, item 1, \$143,300; 2, \$142,000; 3, \$800; 4, \$4,000.
 A. Nelson, 242 Ocean Avenue, San Francisco, item 1, \$145,443; 2, \$143,943; 3, \$600; 4, \$4,753.
 Wm. Spiveck, 552 Market St., San Francisco, item 1, \$145,500; 2, \$143,000; 3, \$800; 4, \$4,800.

Carl N. Swensen Co., 355 Stockton Ave., San Jose, Calif., item 1, \$147,450; 2, \$145,145; 3, \$750; 4, \$4,752.
 E. T. Lesure, 87 Ross Circle, Oakland, item 1, \$147,820; 2, \$147,820; 3, \$147,820; 4, \$144,320.
 J. Mahony Bros., 868 Flood Bldg., San Francisco, item 1, \$148,264; 2, \$144,864; 3, \$800; 4, \$4,000.

Halbauer-LaBahn, Inc., 844 Rush St., Chicago, item 1, \$156,750; 2, \$154,250; 3, \$800; 4, \$3,750.
 Wm. MacDonald Const. Co., Saint Louis, Mo., item 1, \$156,868; 2, \$155,922; 3, \$400; 4, \$3,700.
 Robt. E. McKee, Central Bldg., Los Angeles, item 1, \$157,000; 2, \$155,700; 3, \$600; 4, \$1,300.

Carl J. Koller, Crockett, Calif., item 1, \$162,385; 2, \$150,585; 3, \$850; 4, \$4,100.
 G. F. Campbell Bldg. Co., California Bank Bldg., San Diego, item 1, \$162,000; 2, \$160,200; 3, \$1,152; 4, \$4,332.
 McDonald & Kahn Co. Ltd., Financial Center Bldg., San Francisco, item 1, \$163,725; 2, \$164,478; 3, \$1,000; 4, \$4,300.

W. F. Thurston Co., Inc., Richmond, Va., item 1, \$175,000; 2, \$173,000; 3, \$1,100; 4, \$3,500.
 T. B. Goodwin, 2517 Divisadero St., San Francisco, item 1, \$176,720; 2, \$174,610; 3, \$1,750; 4, \$5,200.
 Jacks & Irvine, 74 New Montgomery St., San Francisco, item 1, \$180,735; 2, \$179,228; 3, \$731; 4, \$4,695.
 Geo. Griffiths Const. Co., Arcade Bldg., St. Louis, Mo., item 1, \$179,000; 2, \$178,000; 3, \$3,000; 4, \$3,500.

HALLS AND SOCIETY BUILDINGS

Plans To Be Prepared.
LURHOUSE Cost, \$100,000
 MODESTO, Stanislaus Co., Cal.
 Community athletic and aquatic clubhouse

Owner—Group of Modesto businessmen to form corporation to finance. Architect Not Selected.
 Sixteen business and professional men of Modesto propose to form an organization to finance this project. It is the plan to get 1000 members and sell shares of stock at \$100 per share, which would raise the necessary \$100,000. Stock will be offered to persons

In all Stanislaus county communities. The committee has started a drive to obtain the first 100 members, after which they will be called together at a general meeting. The committee of 16 was announced as follows: Dr. D. L. Robertson, chairman; Vernon Grant, Dr. Harold Muller, L. M. Dixon, Stanley Elliott, M. M. Mello, James McCaffery, C. R. Peterson, R. E. Galfuss, Ian Mensinger, L. A. Hodgert, Herbert Ramont, Dwight Smith, H. N. Cary, Earl Smith and John Pee.

Prospective Bidders.
MEMORIAL BLDG. Cost, \$65,000
 HAYWARD, Alameda Co., Cal. Koize Property, Main St.
 One-story reinforced concrete Veterans' Memorial Building (Spanish type).
 Owner—County of Alameda.
 Architect—H. H. Meyers, Kohl Bldg., San Francisco.

Following contractors have obtained plans:
 George J. Maurer, 50 York Drive, Oakland.
 Nils W. Place, 310 Fairmont, Oakland.
 R. C. Strehlow, 600 Central Avenue, Alameda.

N. H. Sjoberg & Sons, Call Bldg., San Francisco.
 A. F. Anderson, 1093 Longridge Rd., Oakland.
 E. T. Lesure, 87 Ross Circle, Oakland.
 John E. Branagh, 184 Perry St., Oakland.

Bids are to be opened March 3, at 10:30 A. M.

Construction Postponed Indefinitely.
ALTERATIONS Cost approx. \$10,000
 BERKELEY Alameda Co., Cal. 2001 Allston Way.
 Alterations and additions to present club.
 Owner—Y. M. C. A., premises.
 Architect—W. H. Ratcliff, Jr., Chamber of Commerce Bldg., Berkeley.

OAKLAND, Cal.—John Bremer Co., 15th and Clay Sts., Oakland, at \$55 awarded contract by county supervisors to furnish and install kitchen equipment in American Legion Memorial Building at Emeryville.

Plans Being Figured—Bids Close Mar. 2, 10 A. M.

MEMORIAL BLDG. \$25,000 Available
 CORNING, Tehama Co., Cal. Solano St. and Houghton Ave.
 One-story brick Memorial Building.
 Owner—County of Tehama.
 Architect—Starks & Flanders, Forum Bldg., Sacramento.

Plans are on file in the office of the county clerk and obtainable from the architects.

Construction Postponed Until Spring of 1932.
CLUB HOUSE Cost, \$35,000
 SAN FRANCISCO, Sloat Blvd. and Mirasol Street.
 One-story frame and stucco clubhouse (30x100 feet).
 Owner—San Francisco Tennis Club.
 Plans by Thos. E. Connors, 110 Sutter St., San Francisco.
 Contractor—Reavey & Spiveck, Shell Oil Bldg., San Francisco.

POSITION WANTED

STENOGRAPHER Bookkeeper, desires position with Architect or Contractor. Experienced in Building Construction, General Contracting and Architectural Work. Phone Fillmore 7211—Miss Madden

Plans Completed.
BUILDING Cost, \$—
 RICHMOND, Contra Costa Co., Cal. Eleventh St. off Macdonald Ave.
 Two-story and basement class C brick building.
 Owner—The Salvation Army.
 Architect—Douglas Stone, 337 17th St., Oakland.
 Bids will be called for in two or three weeks.

HOSPITALS

YOUNTVILLE, Napa Co., Cal.—W. S. Leland, 4124 Broadway, Oakland, at \$12,184 awarded contract by State Department of Architecture for furnishing and installing boiler at the Veterans' Home, Yountville.

LOS ANGELES, Cal.—Until 2 P. M., Feb. 16, bids will be received by the Los Angeles County Supervisors for terrazzo for the Acute Unit of the Los Angeles General Hospital. Plans, which were prepared by the architects, Edwin Bergstrom, Myron Hunt, Pierpont Davis, Sumner P. Hunt and William Richards, are on file at the office of the Clerk of the Board, Miss Mame B. Beatty, 303 Hall of Records. Note:—This date was previously withdrawn but has now been officially approved.

Contract Awarded.
HEALTH CENTER Cost, Price, \$9600
 SAN LEANDRO, Alameda Co., Cal. One-story frame and stucco health center.
 Owner—City of San Leandro.
 Architect—James Narbett, 466 31st St., Richmond.

Contractor—W. H. Whitehead, San Leandro.

LAKEPORT, Lake Co., Cal.—Lakeport Women's Men's Center have called a special meeting for February 12 to consider ways and means to finance construction of a modern hospital. Walter H. Levy is president of the center.

Commissioned To Prepare Plans.
ADDITION Cost, \$65,000
 STOCKTON, San Joaquin Co., Cal. Additional unit at Stockton State Hospital.
 Owner—State of California.
 Architect—Peter Sala, 2130 N-Commercial St., Stockton.

Commissioned To Prepare Plans.
HOSPITAL Cost, \$500,000
 YOUNTVILLE, Napa Co., Cal. State Veterans' Hospital.
 Owner—State of California.
 Architect—Frederick H. Meyer, 525 Market St., San Francisco.

Commissioned To Prepare Plans.
ADDITION Cost, \$60,000
 IONE, Amador Co., Cal. Additional units at Preston State School of Industry.
 Owner—State of California.
 Architect—R. G. De Lappe, 1710 Franklin St., Oakland.

Plans Completed.
ADDITION Cost, \$30,000
 SAN FRANCISCO. Twenty-seventh and Valena Streets.
 Two-story steel frame cafeteria addition.
 Owner—St. Luke's Hospital, Premises.
 Architect—George Kelham, 315 Montgomery St., San Francisco.
 Contractor—Chas. Stockholm & Sons, Russ Bldg., San Francisco.
 It is expected to start construction in about two weeks.

Bids Opened.
WARD Cost, \$—
TALMAGE, Mendocino Co., Cal. State Hospital Grounds.
 Ward No. 7, consisting of six one-story dormitories and connecting arcade; reinforced concrete construction (total floor area 10,000 sq. ft. with arcade space of 4000 sq. ft.)
 Owner—State of California.
 Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Building, Sacramento.

Will have tile and wood partitions and roof construction, tile roof similar to existing buildings.

General Work

A. Nelson, 242 Ocean Ave., San Francisco	\$41,435
E. T. Lesure, Oakland	42,415
Gubert Bros., Oakland	42,500
William Spivock, S. F.	42,743
A. F. Anderson, Oakland	42,790
Carl N. Swenson, San Jose	43,785
Carl Nelson, Stockton	43,950
J. S. Hannah, San Francisco	43,990
Oliver S. Almie, S. F.	43,439
Leibert & Trohock, S. F.	47,600
J. P. Brennan, Oakland	53,000

Plumbing and Heating

Ukiah Plumbing & Heating Co., Ukiah \$7171

Carpenter & Mendenhall, Sacto.	7473
H. W. Salls, Ukiah	7726
Scott Co., San Francisco	7857
Scott Plumbing & Elec. Co., Sacramento	7994
E. L. Gnekow, Stockton	8014
Thomas Skelly, S. F.	8336
George Schuster, Oakland	8345
Carl T. Doell, Oakland	8790
Luppen & Hawley, Sacramento	8840
Herman Lawson, S. F.	9711

Electrical Work

Decker Electric Constr. Co., 538 Bryant St., S. F.	\$ 826
Porter Electric Co., S. F.	1250
E. L. Gnekow, Stockton	1305
Superior Electric Co., S. F.	1405
Apex Elec. Co., S. F.	1485
Luppen & Hawley, Sacramento	1550
Cox Electric Co.	1560
C. A. Langlais Co., S. F.	1587

Bids held under advisement.

Contracts Awarded.
WARD UNIT Cost, \$—
AGNEWS, Santa Clara Co., Cal. State Hospital Grounds.
 Two-story reinforced concrete Ward Unit No. 2 (floor area 70,000 sq. ft.)
 Owner—State of California.
 Architect—State Department of Public Works, Division of Architecture, George B. McDougall, State Architect, Public Works Building, Sacramento.

Will have tile partitions, wood roof construction and tile roof similar to first unit now in course of construction.

General Work
 J. F. Shepley, First National Bank Bldg., Stockton, \$194,500.
Plumbing, Heating and Ventilating
 Hatley & Hatley, 3710 Tenth St., Sacramento, at \$40,572.
Electrical Work
 Gilbert Bros., 286 W-Santa Clara St., San Jose, at \$7229.

Plans Being Figured—Bids Close Mar. 3, 2 P. M.
QUARTERS, ETC. Cost, \$46,000
PACIFIC COLONY, Los Angeles Co., Calif.
 Two-story reinforced concrete employees quarters and garages.
 Owner—State of California.
 Architect—Geo. McDougall, State Architect, Public Works Bldg., Sacramento.

Plans Being Figured—Bids Close Mar. 3, 2 P. M.
QUARTERS Cost, \$—
SPADRA, Los Angeles Co., Cal. Pacific Colony Grounds.
 Two-story employees' quarters and 1-story concrete garage.
 Owner—State of California.
 Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, state architect, State Office Bldg., Sacramento.

The Employees' Quarters buildings is two stories with concrete walls and wood frame interior construction and tile roof. The total floor area is approximately \$5600 square feet.
 The Garage is a building of 30 single car compartments with concrete walls and floor and composition roof. The area is approximately 6000 sq. ft.

Separate bids will be entertained for the following segregate parts of the work and combinations thereof:
 1. General Work, embracing all branches of the construction other than Plumbing, Heating and Electrical.
 2. Electrical Work.
 3. Plumbing and Heating Work.
 4. Complete Mechanical, including Plumbing, Heating and Electrical Work.

See call for bids under official proposal section in this issue.
 February 5, 1921
 Commissioned To Prepare Plans
ADDITIONS Cost, \$242,000
BERKELEY, Alameda Co., Cal.
 Additional units at State School for deaf (dormitory and kitchen).
 Owner—State of California.
 Architect—Chas. Roetz, 1404 Franklin St., Oakland.

SAN FRANCISCO—L. Flatland, 1899 Mission St., submitted low bid to Board of Public Works for electrical work in connection with the roof ward additions to the San Francisco Hospital. Following is a complete list of the bids received:
 (a) Work complete according to plans and specifications, omitting elapsed time recorders, doctor's paging system and centralized radio system.
 (b) Add to furnish and install elapsed time recording system.
 (c) Add to furnish and install doctor's paging system.
 (d) Add to furnish and install centralized radio system.

L. Flatland (a) \$28,000; (b) \$2,600; (c) \$2,150; (d) \$2,400.
 Alta Elec. Co. (a) \$32,400; (b) \$3,000; (c) \$2,300; (d) \$2,300.
 Superior Elec. (a) \$33,458; (b) \$3,126; (c) \$2,375; (d) \$3,241.
 Mink & Lucas, (a) \$34,350; (b) \$3,000; (c) \$1,900; (d) \$2,800.

HOTELS

Preparing Plans.
HOTEL Cost, \$700,000
JUAREZ, Mexico.
 Reinforced concrete hotel (270 rooms).
 Owner—Manuel Llantada.
 Architect—Percy McGehee, First National Bank Bldg., El Paso, Texas.
 Will have tile swimming pool, eight tennis courts, etc. Estimated cost, \$700,000. Work is scheduled to start this spring.

Contract Awarded.
REMODELING Cost, \$—
MODERNO, Stanislaus Co., Cal.
 Remodel hotel (enlarge floor, new furnishings, etc.)
 Owner—Henry Crow, Modesto Hotel, Modesto.
 Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.
 Contractor—Fred J. Westlund, 5 25 40th St., Oakland.
 Following is a complete list of bids:

Fred J. Westlund, Oakland	\$14,300
E. K. Nelson, San Francisco	15,37
C. W. Reed, Modesto	19,47
F. E. Taylor	23,93

MEXICO CITY (Mex.)—Plans have been completed for the construction of a new tourist hotel and amusemer center here. The hotel will be seven stories high and will contain 103 rooms. Plans provide for a large casino, a race track, golf course swimming pools, tennis courts and Jacal courts. All of the furniture and fixtures for the hotel will be bought in the United States. The name of the American purchasing agent is in file in the El Paso office of the bureau of foreign and domestic commerce, and T. C. Purcell, local director of the bureau, will furnish information desired.

Contractor Awarded.
HOTEL Cost, \$330,000
CALIXICO, Imperial Co., Cal.
 Frame and stucco hotel (80 room coffee shop, offices, shops, Patisserie, etc.)
 Owner—Will Conway.
 Architect—Merrill & Wilson, Petroleum Securities Bldg., Los Angeles
 Contractor—Austin Co. of Calif. 777 E-Washington St., L. A.

Preparing Plans.
ALTERATIONS Cost, \$20,000
FAIRFIELD, Solano Co., Cal.
 Alterations and additions to presee hotel.
 Owner—Leo. McInnis, Fairfield.
 Architect—Coffman & Sahlberg, Folsom Bldg., Sacramento.
 Contractor—Frank Cross, 825 Excelsior St., Oakland.

BYRON HOT SPRINGS, Contra Costa Co., Cal.—See "Residences," this issue.

POWER PLANTS

Sub-Contracts Awarded.
POWER HOUSE Cost, price, \$23,700
SAN FRANCISCO, Third Avenue & Farnass Avenue.
 One-story steel frame and concrete power house.
 Owner—University of California.
 Architect—Wm. C. Hays, Crocker Nat'l Bank Bldg., San Francisco
 Contractor—J. S. Hannah, 268 Market St., San Francisco.
Structural Steel and Miscellaneous
 Iron—Sims & Gray, 550 Bryant
 Grading—Piombo Bros., 124 Park A
 Plumbing—F. W. Spencer Co.
 Painting—James Christensen, 345 Bworth St.
Sheet Metal—Aetna Sheet Metal Co., 57 Clementina St.
 Previously reported mechanical equipment awarded to C. C. Moore Co., Sheldon Bldg., San Francisco, \$88,805.

GLENDALE, Los Angeles Co., Cal.—The Glendale city council has voted to appropriate \$121,000 from the reserve of the public service budget for capital outlay in the light department during the remainder of the fiscal year of 1930-31. The principal items are a \$35,000 for substitution equipment at San Fernando and Grandview; \$25,000 for overhead system; \$17,000 for poles and fixtures; \$15,000 for line transformers and devices; \$8000 for underground conduits; \$8000 for meters; 1,000 for municipal street lighters; 1,000 for substitution structures (improvement of grounds).

LONG BEACH, Cal.—Stone & Webster, electrical and contractors, and Homer Laughlin Bldg., Los Angeles, H. F. Hendrickson, local manager, will supervise the construction of the third unit of the Long Beach steam plant.

of the Southern California Edison Co. preliminary work, which will start at once, will include pile driving, intake and outlet tunnels. Work on the plant structure will not commence until later in the year. It will be a concrete and steel building, 267x150 ft., 110-ft. height with chimney stacks 262 ft. high. The new unit will develop an additional 125,000 hp. and is estimated to cost \$8,000,000. Five other units of the same size are projected for the future.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

SAN JOSE, Santa Clara Co., Cal.—until February 15, 11 A. M.—under specification No. 6397, bids will be received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, to install temporary partitions, mezzanine floor, electrical work and heating at the U. S. Naval Reserve Armory, Post and Market Sts., San Jose. Plans obtainable from Commandant of the 12th Naval District at San Francisco, on deposit of \$10, returnable. Checks or money orders for same to be made payable to the Bureau of Yards and Docks.

Prospective Bidders.

ADDITION Cost, \$250,000
SAN FRANCISCO, Golden Gate Park. Addition to present Academy Building (steel and brick construction).

Owner—California Academy of Science premises.

Architect—Lewis P. Hobart, Crocker Bldg., San Francisco.

Engineer—T. Ronneberg, Crocker Bldg., San Francisco.

Following contractors will submit bids:

Dinnwiddle Const. Co., Crocker Bldg. Clinton Const. Co., 923 Folsom St. George Wagner, 181 South Park St. Chas. Stockholm, Russ Bldg.

Lindgren and Swinerton, Inc., 225 Bush St.

Chahl Bros., 206 Sansome St.

Bids are to be opened Feb. 10.

Bids To Be Called Feb. 19.

JAIL Cost, \$110,000

SALINAS, Monterey Co., Cal.

Two-story reinforced concrete jail (to accommodate 100 prisoners).

Owner—County of Monterey.

Architect—Reed and Corlett, Oakland Bank of Savings Bldg., Oakland.

RESIDENCES

Sub-Bids Being Taken.

RESIDENCE Cost, \$10,500

SAN FRANCISCO, Ingleide Terrace (Leonard Way).

One-story and basement frame and stucco residence (8 rooms, 2 baths; to cover 2,500 sq. ft.).

Owner and Builder—C. Klase, 277 Anderson Street.

Architect—Not given.

Hot air heating system, part tile roof, colored tile interior.

Preparing Working Drawings.

RESIDENCE Cost Approx. \$20,000

SAN JOSE, Santa Clara Co., Cal.

Two-story and basement frame and stucco residence (10 rooms).

Owner—Dr. E. P. Cook, St. Claire Bldg., San Jose.

Architect—Ralph Wyckoff, San Jose National Bank Bldg., San Jose.

Sub-Bids Being Taken.

BUNGALOW COURT Cost, \$12,500

SAN RAFAEL, Marin Co., Cal.

Frame and stucco bungalow court.

Owner—F. Mendenhall, % L. F. Hyde.

Plans by L. F. Hyde, 372 Hanover St., Oakland.

Construction Postponed Indefinitely.

RESIDENCE Cost, \$12,000

BERKELEY, Alameda Co., Cal. Arch Street.

Two-story frame and stucco residence

Owner—J. A. Bried, 5340 Chabot Rd., Oakland.

Architect—Raymond De Sanno, 2554 Milvia St., Berkeley.

Plans Being Figured.

RESIDENCE Cost, \$10,000

SAN JOSE, Santa Clara Co., Cal.

One and one-half-story frame and stucco residence.

Owner—Malcolm Donald, 68 S-Second St., San Jose.

Plans by Russell Coleman, 1404 Broadway, Burlingame.

Completing Plans—Contract Awarded.

RESIDENCE Cost, \$15,000

PIEDMONT, Alameda Co., Cal. Sunnyhill Avenue.

Two-story and basement frame and stucco residence (9 rooms, 4 baths)

Owner—Ray Lapham.

Plans by Irwin Johnson, Thayer Bldg. Oakland.

Contractor—Theodore Lapham, 546 Kemore St., Oakland

Sub-bids will be taken in about one week.

Segregated Figures Being Taken.

RESIDENCE Cost, \$—

HILLSBOROUGH, San Mateo Co., Cal.

Two-story residence (15 rooms, 5 baths).

Owner—Edward Cossette.

Plans by T. Moore.

Contractor—T. Moore, 58 Lake Ave., Piedmont.

All bids must be in by Monday Feb 9.

Plans and specifications obtainable from Mr. Moore.

Plans Being Figured—Bids Close Feb. 12th.

RESIDENCE Cost, \$13,000

HILLSBOROUGH, San Mateo Co., Cal.

Two-story and basement frame and stucco residence (8 rooms and 3 baths; shingle roof, gas heating system).

Owner—Withheld.

Architect—Pring & Lesswing, 605 Market St., San Francisco.

Bids are being taken from a selected list of contractors only.

Preparing Preliminary Plans.

BUNGALOW COURT Approx. \$45,000

SAN CARLOS, San Mateo Co., Cal.

One-story frame and stucco bungalow court.

Owner—Withheld.

Architect—Ernest Norberg, 530 Market St., San Francisco.

Plans Being Figured.

RESIDENCE Cost, \$5000

STOCKTON, San Joaquin Co., Cal.

One and one-half-story frame and stucco residence

Owner—A. C. Weber, 1766 W-Willow St., Stockton.

Architect—Glenn Allen, Union Block Bldg., Stockton.

Plans Completed

RESIDENCE Cost, \$6000

PLEASANTON, Alameda Co., Cal.

One-story frame and stucco duplex residence (2 4-room residences).

Owner—Mr. and Mrs. C. S. Graham.

Architect—F. A. Hill, 1448 Webster St., Oakland.

Shingle roof, gas heating system.

Bids will be taken for a general contract tomorrow and will be opened in about two weeks.

Sub-Contracts Awarded.

RESIDENCE Cost, \$11,336

PALO ALTO, Santa Clara Co., Cal. Crescent Park.

Two-story and basement frame and stucco residence.

Owner—Alan H. Robertson, Pope and Oak Sts., Palo Alto.

Architect—J. K. Branner, Shreve Bldg., San Francisco.

Contractor—Harry H. Dabinett, 1765 Fulton St., Palo Alto.

Mill Work—Peninsular Mfg. Co., San Jose.

Plastering—Ira Bridges, 534 Waverly St., Palo Alto.

Heating and Sheet Metal—Stanford Sheet Metal Works, Palo Alto.

Painting—E. Wiley & Pfeffermann, 119 Everett St., Palo Alto.

Brick Work—Walker Bros.

Lumber—Seay Thorning, Palo Alto

Plans Being Completed.

RESIDENCE Cost, \$—

SAN FRANCISCO, Forest Hill.

Two-story and basement frame and stucco residence.

Owner—Dr. R. Gilbert, 2033 Turk St., San Francisco.

Architect—Henry Smith and Albert Williams, Humboldt Bank Bldg., San Francisco.

Bids will probably be called in about one week.

Plans Completed.

RESIDENCE Cost approx. \$20,000

PIEDMONT, Alameda Co., Cal.

Two-story and basement frame and stucco residence (10 rooms).

Owner—Withheld.

Architect—Miller and Warnecke, Financial Center Bldg., Oakland.

Bids will be taken in a few days.

Preparing Plans.

FRATERNITY HOUSE Cost, \$50,000

WEST LOS ANGELES, Cal. No. 655 S. Gayley Avenue.

Two-story and basement reinforced concrete fraternity house (35 rooms).

Owner—Sigma Alpha Epsilon Fraternity.

Architect—Kemper Nomland, Architects Bldg., Los Angeles.

Sub-Bids Being Taken.

RESIDENCE Cost, \$18,000

SAN MATEO, San Mateo Co., Cal. Baywood Park.

Two-story and basement frame and stucco residence (10 rooms and 3 baths).

Owner and Builder—Charles Hammer, 1524 Floribunda Ave., Burlingame.

Architect—Chas. Strothoff, 2274 15th St., San Francisco.

Full tile roof, gas heating system.

Bids Opened—Held Under Adjudgment

RESIDENCE Cost, \$—

SAN FRANCISCO, Broadway near Baker Street

Two-story and basement frame and stucco residence.

Owner—Dr. A. Lincoln Brown, Medical-Dental Bldg., San Francisco.

Architect—Bakewell & Weibe, 251 Kearny St., San Francisco.

Contract Awarded.

ALTERATIONS Cost, \$15,000

ATHERTON, San Mateo Co., Cal. Atherton Avenue.

ALTERATIONS and additions to residence

Owner—Edw. H. Heller, Atherton Ave., Atherton

Architect—Henry H. Gutterson, 526 Powell St., San Francisco.

Contractor—Clinton-Stephenson Construction Co., Monadnock Bldg., San Francisco.

Plans Being Prepared.

BUNGALOWS Cost, \$—
BYRON HOT SPRINGS, Contra Costa Co., Cal.
 Twenty-six frame and stucco bungalows and refurbish 3-story brick hotel.
Owner—Mrs. J. Reid.
Architect—Reid Eros, 465 Montgomery St., San Francisco.
Lessee—J. Ward Cohen, St. Francis Hotel, San Francisco.
 The hotel will be refurbished, redecorated and recarpeted. Bids will probably be called in about 60 days for constructing the bungalows.

Plans Being Figured.

RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Cal., Prospect Avenue.
 Two-story frame and stucco residence
Owner—Dr. J. Manley, 335 Foothill Blvd., Oakland.
Plans by Irwin M. Johnson, 2215 7th Ave., Oakland.
 Bids are also wanted on hot water heating system.

SCHOOLS

Commissioned To Prepare Plans.
SCIENCE BUILDING
 \$202,000 (Appropriated)
SAN JOSE, Santa Clara Co., Cal.
 State Teachers' College Grounds.
 Fireproof Science Building.
Owner—State of California.
Architect—Ralph Wyckoff, Growers Bank Bldg., San Jose.

LOS ANGELES, Cal. — Until 11 A. M., February 14, bids will be received by the Regents of the University of California for plumbing, heating, ventilating and electrical work to be installed in Mira Herhey Hall to be erected on the campus of the University, Los Angeles. Plans may be secured from comptroller, 48 Library Bldg., University of California, 405 Hilgard Ave., Los Angeles, upon deposit of \$100. Building will be a reinforced concrete structure, costing about \$300,000. Douglas H. McLellan, architect, 806 Architects' Bldg.

Plans Being Completed.

SCHOOL Est. Cost, \$180,000
SAN FRANCISCO Claremont Blvd. and Taraval Street.
 Two-story Class B reinforced concrete school.
Owner—City and County of San Francisco.
Architect—Dodge Reidy, Pacific Bldg., San Francisco.
 Plans will be ready for bids in about thirty days.

Plans Being Figured—Bids Close Feb. 11.

AUDITORIUM Cost, \$175,000
SAWTELLE, Los Angeles Co., Cal.
 Texas and Westgate Aves.
 Two-story Class A reinforced concrete and brick school auditorium (98x190 feet; 10 rooms)
Owner—City of Los Angeles School District.
Architect—A. S. Nibecker Jr., Los Angeles.

OAKLAND, Cal.—S. Razoni, 614 Call Bldg., San Francisco, desires sub-bids in connection with the construction of a group of reinforced concrete high school buildings for which general bids are now being received by Architect H. A. Minton, Eddy and Powell Sts., San Francisco. They are to be constructed on Edith St. near Morpeth, Oakland, for the Roman Catholic Archbishop of San Francisco, at a cost of \$300,000. Bids are to be opened February 3rd.

Sub-Contracts Awarded.

GYMNASIUM Cont. price, \$44,662
KENTFIELD, Marin Co., Cal.
 Gymnasium (wood frame, roof trusses over gymnasium proper carried on steel columns) planting lawns and shrubbery, etc., at college grounds
Owner—Marin Junior College District
Architect—A. A. Cantin, 544 Market St., San Francisco.
Contractor—Young & Horstmeyer, 461 Market St., San Francisco.
Structural Steel—Judson Pacific Co., 609 Mission St., San Francisco.
Pile Driving—A. G. Howe.
 As previously reported, electrical work awarded to North Bay Electric Co., San Rafael, 22131. Heating and painting bids will not be called for before June, 1931.

Plans Completed.

SCHOOL Cost, \$100,000
LOS ANGELES, Cal. Orange Grove Ave. near Commonwealth.
 Two-story and basement reinforced concrete and brick school (200x114 feet).
Owner—Alhambra City School District
Architect—Richard C. Farrell, 11 S. Second St., Alhambra
 Bids will be called for about Feb. 5.

Bids Opened.

SCHOOL Cost, \$100,000
RENO, Nevada.
 One and two-story brick and concrete parochial school and parish house.
Owner—St. Thomas Catholic Church, Reno, Nevada.
Architect—F. J. DeLongchamps, Gazette Bldg., Reno, Nevada.

Following is a complete list of bids received:

- (1) school; (2) parish house; (3) Total:
- Azevedo & Sarmiento, 920 O St., Sacramento, (1) \$59,400; (2) \$27,400; (3) \$86,800.
- J. C. Dillard, Reno, (1) \$61,497; (2) \$21,196; (3) \$87,693.
- W. C. Keating, Sacramento, (1) \$60,950; (2) \$27,050; (3) \$88,000.
- R. Thompson, Reno, (1) \$62,200; (2) \$27,700; (3) \$89,900.
- Barrett & Hill, San Francisco, (1) \$62,922; (2) \$28,350; (3) \$91,350.
- Lindgren & Swinerton, Inc., Sacramento, (1) \$63,151; (2) \$28,800; (3) \$92,051.
- Anderson & McShee, Reno, (1) \$62,770; (2) \$29,679; (3) \$92,449.
- J. Reese, Sacramento, (1) \$56,800; (2) \$27,200; (3) \$94,000.
- C. S. Boden, Reno, (1) \$64,220; (2) \$30,660; (3) \$94,880.

- J. Deyer, Reno, (1) \$70,500; (2) \$30,144; (3) \$100,644.
- Rauch & Belz, Reno, (1) \$73,369; (2) \$29,994; (3) \$103,363.
- Bids held under advisement.

Plans Being Figured

SCHOOL Cost, \$140,000
LOS ANGELES, Cal. Beverly Blvd.
 Two-story Class D brick administrative and residential building (60x284 feet).
Owner—Marymount School.
Architect—Ross Montgomery, Chamber of Commerce Bldg., Los Angeles.
 Pipe organ, electric refrigeration etc.

Plans Being Figured—Bids Close Feb 14th.

DORMITORY Cost, \$300,000
WEST LOS ANGELES, Cal.
 Three-story and basement Class A dormitory (160x216 feet).
Owner—University of California at Los Angeles
Architect—Douglas H. McLellan, Architects Bldg., Los Angeles, and Geo. S. Kelham, 315 Montgomery St., San Francisco.

Commissioned To Prepare Plans.
ADMINISTRATION BLDG. \$200,000
FRESNO, Fresno Co., Cal. State Teachers' College.
 Fireproof library and administrator building.
Owner—State of California.
Architect—Swartz & Ryland, Brick Bldg., Fresno.

Commissioned To Prepare Plans.

SCHOOL Cost, \$170,000
ARCATA, Humboldt Co., Cal.
 Training school at State Teachers' College.
Owner—State of California.
Architect—Franklyn T. Georgeson, 6th and G Sts., Eureka.

LOS ANGELES, Cal. — Sarver & Zoss, 355 Roosevelt Bldg., submitted the low bid on the general contract at \$367,880 to Los Angeles Board of Education for three-story, 44-room, classroom and library building, 72x136 feet; a two-story 10-room cafeteria building, 96x123 feet; a two-story, 13-room physical education building, 72x180 feet, and a one-story, nine-room shop building, 78x156 feet, at Alexander Hamilton School site, 2955 Robertson Blvd. Concrete and brick con-

ORNAMENTAL WIRE AND IRON WORK

IRON WIRE Fence and Gates

TENNIS COURT ENCLOSURES

WIRE SCREENS AND GUARDS

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uction Other low bids were: Ger-
 d Vande, 1876 W. 23rd St., on the
 electric wiring at \$10,080; Conny &
 Interbottom, 2425 Hunter St., on the
 ating and ventilating at \$22,444, and
 the plumbing at \$26,384; H. J. McIn-
 lely, 1603 Burton Way, Beverly
 Hills, on the painting at \$8750. Plans
 y Architects John C. Austin and
 federic M. Ashley, 608 Chamber of
 ommerce Bldg.

Contract Awarded
SCHOOL Cost, \$108,629

OS ANGELES, Cal. Thirty-second
 St. School Site.

wo-story Class B brick and concrete
 school.

wner—Los Angeles City School Dist.
 architect—A. S. Nibecker, Los Ange-
 les.

Contractor—George Mittry, 816 W.
 5th St., Los Angeles.

Painting—F. D. Reed, Los Angeles,
 at \$7385.

Heating and Ventilating—Tbos. Hav-
 erty, Los Angeles, at \$10,349.

Electric—J. Hamilton, Los Angeles,
 at \$2522

February 3, 1931

Plans Being Figured.
SCHOOL BLDGS. Cost, \$195,006

LOS ANGELES, Cal. No. 1943 Bev-
 erty Blvd.

Two Class D brick school buildings
 (administration building and residen-
 tial building) (60x234 ft.)

Owner—Marymount School.
 Architect—Ross Montgomery, Cham-
 ber of Commerce Bldg., Los Ange-
 les.

Bids are being taken from a selected
 list of contractors.

February 3, 1931

Plans Being Completed.
ADDITION Cost, \$75,000

MADERA, Madera Co., Cal.
 Class C brick addition to high school.

Owner—Madera Union High School
 District.

Architect—Davis-Pearce Co., Grant
 and Weber Sts., Stockton.

Bids will be advertised for in about
 three weeks.

Bids To Be Taken In One Week.
SCHOOL Cost, \$40,000

SANTA CLARA, Santa Clara Co., Cal.
 Brick veneer annex to high school.

Owner—Santa Clara School District.
 Architect—W. H. Weeks, 111 Sutter
 St., San Francisco.

This structure will be financed with
 monies now in the district's Reserve
 Fund.

Preparing Preliminary Plans.
SCHOOL Cost, \$250,000

SEBASTOPOLE, Sonoma Co., Cal.
 Two-story Class C brick high school.

Owner—Analy Union High School Dis-
 trict.

Architect—Davis-Pearce Co., Grant
 and Weber Sts., Stockton.

andscape Architect—Howard Gilkey,
 337 17th St., Oakland.

February 4, 1931

Bids Close Feb. 14.
DORMITORY Cost, \$300,000

WEST LOS ANGELES, Cal. Hilgard
 Ave. and Manning St.

Three-story and basement Class A
 reinforced concrete dormitory (160
 x216 feet) accommodate 125 girls.

Owner—University of California, Los
 Angeles.

Architect—Douglas McLenna, Archi-
 tect Bldg., Los Angeles, and Geo.
 Kelham, 515 Montgomery St., San
 Francisco.

MERCED, Merced Co., Calif.—Until
 February 16, 8 P. M., bids will be
 received by Dr. N. S. Peck, clerk, Mer-
 ced Union High School District, to
 furnish and lay a clay tile roof on
 the present high school gymnasium at
 Merced. Certified check 10% payable
 to clerk required with bid. Plans ob-
 tainable from W. E. Bedesen, engi-
 neer, Shaffer Bldg., Merced.

Contract Awarded
SCHOOL Cont. price, \$398,848

OAKLAND, Alameda Co., Cal. 45th
 Ave. and Pothill Blvd. (Fremont
 High School Site).

Three-story and basement steel frame
 and concrete high school with tile
 roof.

Owner—City of Oakland School Dist.
 Architect—Charles W. McCall, 14 0 4
 Franklin St., Oakland.

Contractor—Chas. D. Vosey & Son,
 3229 Sacramento St., Oakland.

Finish hardware bids are held un-
 der advisement, the lowest bid being
 submitted by Associated Hardware
 Co., 3560 San Pablo Ave., Oakland, at
 \$5,139.

SAN JOSE, Santa Clara Co., Cal.—
 Pacific Manufacturing Co., Monad-
 nock Bldg., San Francisco, at \$2380

submitted lowest bid to Board of Ed-
 ucation to furnish and install library
 furniture for school department.

Following is a complete list of bids
 received:

Pacific Mfg. Co., San Francisco.....	\$3280
Home Mfg Co., San Francisco.....	3708
Fred Turner, Stockton.....	4000
C. F. Weber, San Francisco.....	4074
Remington Rand Co., S. F.....	4233
L. Lion, San Jose.....	4295
Yawman & Erbe, San Francisco 4681	
Spinner Diest Corp., S. F.....	6006

Bids held under advisement.

Sub-Bids Being Taken.
EDUCATIONAL UNIT Cost, \$18,000

PORTERVILLE, Tulare Co., Cal.
 Two-story and basement frame and
 stucco educational unit, etc.

Owner—Porterville Methodist Church.
 Architect—Rollin S. Tuttle, Box C,
 Los Gatos (deceased).

Contractor—Frank Sheldon Const. Co.,
 Porterville.

Bids are being taken on plumbing,
 heating, ventilating, sheet metal and
 a cooling system.

Work comprises new educational
 unit in connection with the church
 plant in addition to remodeling the
 church proper. The educational unit
 is to contain 18 classrooms for junior
 and senior departments with facili-
 ties for about 750 pupils. Clark Stand-
 ford, 212 E Putnam Ave., Porterville,
 is chairman of the Building and Finance
 Committee.

BANKS, STORES & OFFICES

Contract Awarded.
ADDITION Cost, \$10,000

SAN FRANCISCO, E Montgomery
 St N Broadway.

One-story addition to reinforced con-
 crete building.

Owner—Fireman's Insurance Co. of
 Newark, 69 Sansome St., San
 Francisco.

Engineer—Ellison & Russell, Pacific
 Bldg., San Francisco.

Contractor—MacDonald & Kahn, Fi-
 nancial Center Bldg., San Fran-
 cisco.

Sub-bids will be taken shortly.

Bids Wanted—To Be Opened Feb. 11.
BANK Cost, \$300,000

PHOENIX, Ariz. SE Central Ave.
 and Monroe Street.

Eleven-story Class A steel frame bank
 and offices.

Owner—Valley Bank & Trust Co.
 Architect—Morgan, Walls & Clements
 Van Nuys Bldg., Los Angeles.

Bids To Be Taken In About Ten Days
STORE Cost, \$—

SANTA CLARA, Santa Clara Co., Cal.
 Two-story reinforced concrete store
 and offices.

Owner—Eugene Simas, 675 Washing-
 ton St., Santa Clara

Architect—Wolfe & Higgins, Realty
 Bldg., San Jose

Plans Being Figured.
STORE Cost, \$50,000

BAKERSFIELD, Kern Co., Cal. I and
 N 19th Streets.

Owner—Bank of America.

Architect—H. A. Minton, Bank of Italy
 Bldg., Eddy and Powell Sts., San
 Francisco.

Lessee—J. J. Newberry Company.

Sub-Bids Being Taken.
ALTERATIONS Cost, \$—

SAN JOSE, Santa Clara Co., Cal.
 First Street

Alterations and additions to concrete
 and stucco building.

Owner—Security Warehouse and Cold
 Storage Co., 350 N-First St., San
 Jose.

Architect—Ralph Wyckoff, San Jose
 National Bank Bldg., San Jose.

Contractor—R. O. Summers, 17 N-
 First St., San Jose.

Sub-bids are being taken from local
 contractors only.

Contract Awarded.
MARKET Cost, \$30,000

SACRAMENTO, Sacramento Co., Cal.
 Alhambra Blvd. and Granada St.

One-story frame and stucco drive-in
 market.

Owner—Wahl & Pease.
 Architect—Jens C. Petersen, 826 26th
 St., Sacramento.

Contractor—Kaiser Bros., 16th and P
 Sts., Sacramento.

Construction has just been started.

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*for use on steel and concrete frame buildings, saves
 lives, time and money*

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 always great.

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 Lessor of Suspended and Swinging Safety “Gold Medal” Scaffolding.

Contract Awarded.
OFFICES Cost, \$22,000
SANTA ROSA, Sonoma Co., Cal. B
 St., bet. First and Second Sts.
 One-story reinforced concrete building
 (offices and garage in rear) (200x
 66 feet).
 Owner—Mrs. Minnie Lehn Winkler,
 Forestville, Calif.
 Architect—Eng. Dept. of Lessee.
 Lessee—Pacific Telephone & Tele-
 graph Co., 74 New Montgomery
 St., San Francisco.
 Contractor—Walter Proctor, 12 W-
 Tenth St., Santa Rosa.

Bids Wanted—To Close Feb. 11.
STORE Cost, \$100,000
PHOENIX, Arizona. First Ave. and
 Adams Street
 Two-story Class B concrete store (78x
 150 feet).
 Owner—Dr. R. W. Craig
 Architect—Morgan, Walls & Clements,
 Van Nuys Bldg., Los Angeles.

Prospective Bidders.
BANK Cost, \$60,000
LOS GATOS, Santa Clara Co., Calif.
 Main St. and Santa Cruz Avenue
 (52x100-ft.)
 One-story reinforced concrete bank
 with tile roof (ornamental stone
 and acoustical plaster).
 Owner—Bank of Italy.
 Architect—H. A. Minton, Bank of Italy
 Bldg., Eddy and Powell Sts., San
 Francisco.

There will be two stores, 20x72 feet,
 in connection with the building. Fol-
 lowing contractors have secured plans:
 MacDonald & Kahn, Financial Cen-
 ter Bldg., San Francisco.
 Clinton Stephenson Const. Co., Mon-
 nadnock Bldg., San Francisco.
 Sullivan & Sullivan, 2653 Best Ave.,
 Oakland.
 James L. McLaughlin, 251 Kearny St.,
 San Francisco.
 Larsen & Larsen, Russ Bldg., San
 Francisco.

Jacks & Irvine, 74 New Montgomery
 St., San Francisco.
 F. L. Hansen, 282 7th St., San Fran-
 cisco.
 J. C. Monk, Los Gatos.
 L. G. Case, Los Gatos.
 Chas. Heyer, Mills Bldg., San Fran-
 cisco.
 R. O. Summers, 17 N 1st St., San
 Jose.
 F. T. Edmans, 143 N 8th St., San
 Jose.
 Chas. H. Thomas, 1227 Singletary
 St., San Jose.
 Thermotite Const. Co., 580 Stockton
 St., San Jose.
 E. E. Nommensen, 28 N 1st St., San
 Jose.

George W. Anderson.
 J. P. Petersen.
 Gaubert Bros., 4735 Brookdale Ave.,
 Oakland.
 Wells P. Goodenough, 310 University
 Ave., Palo Alto.
 H. B. Post, 1330 Webster St., Palo
 Alto.
 Meese and Briggs, 1425 Broadway,
 Burlingame.

The Minton Co., Mt. View.
 Bids are to be opened Feb. 16.
 Bids Opened.
STORE Cost, \$10,000
SAN JOSE, Santa Clara Co., Calif.
 Two-story frame and stucco store and
 residence.
 Owner—Della Maggiore.
 Architect—Wolfe and Higgins, Realty
 Bldg., San Jose.

Following is a complete list of bids:
 Wm. Fogue, 480 S 6th St., San
 Jose \$ 8,925
 Wm. Meyer, San Jose 8,580
 J. V. Gohranson, San Jose 3,190
 H. M. Reese, San Jose 9,575
 William Colwell 9,713
 P. V. Brown 9,760
 A. Caville 9,838

D. Di Fiore, San Jose 9,903
 G. M. Latta, San Jose 5,944
 C. G. Giancone, San Jose 10,150
 H. S. Waltz, San Jose 10,500
Painting
 J. B. Scott, San Jose 4476.76
 C. W. Lynn, San Jose 631.00
 Geo. Smith, San Jose 744.00
 Geo. Cahill, San Jose 750.00
 F. Kuntz, San Jose 946.00
 Bids held under advisement.

Plans To Be Revised.
NEWSPAPER BLDG. Cost, \$15,000
SOUTH SAN FRANCISCO, San Mateo
 Co., Calif. Grand Ave. near Maple
 Street.
 One-story reinforced concrete news-
 paper building (25x140-feet; com-
 position roof).
 Owner—Peninsular Newspapers, Inc.,
 Palo Alto.
 Architect—John McCool, 381 Bush St.,
 San Francisco.
 Will be known as "The Enterprise."
 Segregated bids will be taken at a
 later date.

Sub-Pids Wanted.
BANK Cost, \$60,000
LOS GATOS, Santa Clara Co., Calif.
 Main St. and Santa Cruz Avenue
 (52x100-ft.)
 One-story reinforced concrete bank
 with tile roof (ornamental stone
 and acoustical plaster).
 Owner—Bank of Italy.
 Architect—H. A. Minton, Bank of Italy
 Bldg., Eddy and Powell Sts., San
 Francisco.

J. C. Monk, general contractor, 45
 Tait Ave., Los Gatos, desires sub-fig-
 ures on all parts of the work in con-
 nection with this project for which
 general contract bids will be opened
 by the architect on Feb. 16. A list of
 the prospective bidders on this job
 were reported in the issue of Feb. 3.

Contract Awarded.
STORE Cost, \$250,000
LOS ANGELES, Cal. No. 537-541 S
 Broadway.
 Six-story and basement Class A rein-
 forced concrete, brick and steel
 store (59x155 feet).
 Owner—F. & W. Grand Silver Stores,
 Inc.
 Architect—Walker & Eisen, Western
 Pacific Bldg., Los Angeles.
 Contractor—Bavin & Burch, 173 E.
 Jefferson St., Los Angeles.

Contract Awarded.
ALTERATIONS Cost, \$5000
OAKLAND, Alameda Co., Cal. East
 Telegraph Ave. 129 N 19th St.
 Alterations and additions to building.
 Owner—20th and Broadway Realty Co.,
 Oakland.
 Architect—A. J. Evers, 525 Market
 St., San Francisco.
 Contractor—G. P. W. Jensen, 320 Mar-
 ket St., San Francisco.

THEATRES

Preliminary Plans Being Prepared.
ALTERATIONS Cost, \$35,000
BERKELEY, Alameda Co., Cal. 3332
 Adeline Street.
 Alterations to theatre.
 Owner—Lorin Theatre, premises.
 Architect—A. A. Cantin, 544 Market
 St., San Francisco.
 More definite information will be
 given in one week.

Contract Awarded.
THEATRE Cost, \$35,000
SOUTH SAN FRANCISCO, San Mateo
 Co., Cal.
 Two-story steel frame and concrete
 theatre.
 Owner—A. J. Eschelbach, 303 Orange
 Ave., South San Francisco
 Architect—Reid Bros., 105 Montgomery
 St., San Francisco.
 Contractor—G. E. Pasqualetti, 2330

Larkin St., San Francisco.
 Sub-bids will be taken in about one
 week.

Contract Awarded—Sub-Bids Belin-
 Taken.
THEATRE Cost, \$200,000
MERCED, Merced Co., Cal. Seventh
 and J Streets (150x150 feet).
 Two-story Class C steel frame and
 reinforced concrete theatre, store
 and office building (theatre to sea-
 son 1700).
 Owner—Golden State Theatres, Inc.
 988 Market St., San Francisco.
 Architect—Reid Bros., 105 Montgom-
 ery St., San Francisco.
 Contractor—G. B. Pasqualetti, 2330
 Larkin St., San Francisco.
 Previously reported as being award-
 ed to Sull Eros.

As previously reported, excavator
 awarded to J. W. Hoffman, Merced.
 17, 11 A. M.
THEATRE Cost, \$500,000
ALAMEDA, Alameda Co., Cal. North
 Central Ave. W Park St.
 Structural steel frame and reinforced
 concrete theatre (to seat 2200; 126x
 210-ft.).
 Owner—Alameda Amusement Co.
 Architect—Miller & Pfueger, 550 Mar-
 ket St., San Francisco.
 Separate bids will be taken on the
 structural steel, heating, ventilating
 and electric work.

WHARVES AND DOCKS

Steel Bids Wanted.
TERMINAL Cost, \$—
OAKLAND, Alameda Co., Calif. Foot
 of Webster Street.
 Structural steel frame for Inland Waters
 Terminal; 152 ft. on harbor
 side, 285 ft. on slip side; also con-
 crete viaduct 260 ft. by 33 ft.
 Owner—City of Oakland (Port Com-
 mission, G. E. Heardt, secretary)
 Oakland Bank Bldg., Oakland.
 Plans by Eng. Dept. of City Port Com-
 mission, Oakland Bank Bldg., Oak-
 land.

Contract for the sub-structure has
 already been awarded to M. B. Mc-
 Gowan, Call Bldg., San Francisco, at
 \$121,344.
 Bids now being received are to be
 opened February 16, 4:30 P. M., for
 the structural steel frame for the su-
 per-structure. Plans are obtainable
 from the City Port Commission, Oak-
 land Bank Bldg.

REDWOOD CITY, San Mateo Co.,
 Cal.—Application of Etkerentkott &
 Johnson to construct a skidway at the
 yacht harbor and to least two 20-ft.
 berths and a 20-ft. strip of land 73-
 ft. long on the municipal harbor has
 been referred to City Engineer C. L.
 Dimmitt for report.

**MISCELLANEOUS
 CONSTRUCTION**

BELMONT, San Mateo Co., Cal.—
 Belmont City Planning Commission
 has recommended the construction of
 a pedestrian underpass at O'Neill Ave.
 under the tracks of the Southern Pa-
 cific Railroad. George Kneese, city
 engineer, has been instructed to pre-
 pare estimates of cost for an under-
 pass 60-ft. long.

Plans Being Figured—Bids Close Feb.
 11.
MORTUARY Cost, Approx. \$14,000
MOUNTAIN VIEW, Santa Clara Co.,
 Cal. NE Yosemite and Castle Sts.
 Two-story and basement frame and
 stucco mortuary (50x90 feet).
 Owner—George Heardsdale.
 Plans by E. Reichel, 303 University
 Ave., Palo Alto.
 Part tile and composition roofing,
 steel sash, hot air heating system,

lended glass and some plate glass.

Bids are being taken for a general contract.

SALINAS, Monterey Co., Cal.—American Legion Posts throughout the county will petition the county supervisors to levy a direct tax to finance improvements. Under the proposal to be advanced by the Legion supervisory districts of the county would be grouped according to the most convenient centers for veterans' activity, giving Salinas districts 1 and 2, the southern end of the county districts 3 and 4 and Monterey peninsula district 5. Assessed valuation of the combined districts would be about 38 per cent to district 5; 34 per cent to districts 1 and 2, and 27 per cent to districts 3 and 4. The supervisors will be requested to assess the three mill tax rate provided by state statute for financing veterans' memorial buildings, at the rate of one mill per year for three years and yielding about \$55,000 per year. Under the plan if division described, district 5 would receive approximately \$62,000; districts 1 and 2 \$56,000 and districts 3 and 4 \$47,000. Salinas, being anxious to apply its share to the state armory now under construction, would be given the first year's proceeds; Monterey peninsula the second year's and the third year's. The county has its halls erected and desires the fund for a memorial park, the third year's fund.

RENO, Nevada.—Until March 2, 7:30 P. M., bids will be received by H. W. Miles, secretary, Washoe County Library Board of Trustees, for removal of brick library building at NE corner of Mill and Virginia Sts., in city of Reno. Further information obtainable from secretary.

POMONA, Los Angeles Co., Cal.—County Architect Karl Muck, 10th floor, Hall of Records, has been authorized by the Los Angeles County Supervisors to prepare plans for a grandstand to be built at the County Fair grounds at Pomona. The proposed grandstand will be of steel and concrete construction and will be designed to seat 10,000. The estimated cost is \$225,000. The structure will probably be built in sections.

OAKLAND, Cal.—Until February 11, 3 P. M., bids will be received by East Bay Municipal Utility District, 512 16th St., to furnish and deliver one typewriting machine. Specifications obtainable from above office.

WESTWOOD, Los Angeles Co., Cal.—The University Religious Conference is conducting a campaign to raise \$360,000 for the construction of a building at Le Conte and Divisadero Aves., Westwood. It will provide quarters for various religious clubs of the University of California. Gordon B. Kaufmann, 610 Union Bank Bldg., will be the architect.

MISCELLANEOUS SUPPLIES AND MATERIALS

OAKLAND, Cal.—Cockran & Celli, Oakland, submitted low bid to F. C. Merritt, city clerk, at \$1,942.50 each for three motor trucks for the construction department. Only other bidder was T. H. Daily, Oakland, at \$1057. All bids held under advisement.

SAN FRANCISCO—Following have been awarded contracts by City Purchasing Agent Leonard S. Leavy to

furnish paints, painters' supplies and glass, as may be required by the city during the annual term commencing Jan. 1 and ending Dec. 31, 1931, under Proposal No. 641: Tyre Bros. Glass Co., Excelsior Chemical Co., Glidden Co., California, National Lead Company of California, Cobblehead-Kibbe Glass Co., W. P. Fuller & Co., Doldge-Koren Paint Co., Dan P. Mahler Paint Co.

LOS ANGELES, Cal.—Until Feb. 6, 11 A. M., bids will be received by Thos. Oughton, city purchasing agent, under Adv. No. 2324, to furnish and deliver to Department of Water and Power, 604 S. Saugus, approximately 443,000 ft. (approx. 19,813 pounds) No. 8 AWG telephone wire. Certified check or bond for 10 per cent. Specifications obtainable from above.

OAKLAND, Cal.—Until February 11, 12 noon, bids will be received by Frank C. Merritt, city clerk, to furnish and install inter-departmental telephone sets for use of fire alarm system. Specifications on file in office of clerk.

SAN FRANCISCO.—J. A. Nelson, 10th and Howard Sts., at \$5.30 submitted low bid to Leonard S. Leavy, city purchasing agent, under Proposal No. 679, to furnish 300 galvanized iron garbage cans for the School Department. The following is complete list of bids received, and stated time of delivery:

- J. A. Nelson, \$5.30; (30).
- Harper Mfg. Co., \$6; (12).
- Gulloyf Corncut Works, \$6.66; (30).
- Levenson Co., \$6.66; (30).
- Baker, Hamilton & Pacific Co., \$6.64; (30).
- J. H. Blakeway, \$6.72; (30).
- Seller Bros., \$6.72; (16).
- Ferry Sheet Metal Works, \$7.25;

BUSINESS OPPORTUNITIES

Names and addresses of persons or firms concerned in the following opportunities will be furnished on request to Business Opportunity Department, Daily Pacific Bulder, 547 Mission St., San Francisco or Phone GARfield 8741.

20812—Representatin. Oakland, Cal. Party who has represented a number of American manufacturers in Europe for many years is desirous of contacting San Francisco manufacturers or producers wishing representation in Switzerland.

20812—Representation. Oakland, Cal. Cal. Party leaving soon for China is anxious to represent local manufacturers there. References upon request.

20918—Hemp. San Francisco. Party is interested in contacting importers Sample of hemp from Guatemala on of hemp and manufacturers of bags. file.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

 Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 718, 87 Post Street, San Francisco. (Phone SUtter 1064).

R-3476-S MECHANICAL ENGINEER thoroughly experienced in the production of farm machinery, for a combination job of designer and production engineer. Company also makes trailers. Prefer a man over 35 years old on account of experience required. Salary open, but not over \$250 per month to start. Location, San Francisco.

R-3466-S MECHANICAL ENGINEER graduate, not over 23, with practical knowledge of machine design, for plant equipment development. Experience on metal stamping and welding desirable. Good opportunity for man with initiative and constructive ideas. Salary about \$200 per month. Location, San Francisco.

R-3469-S JUNIOR ENGINEER, not necessarily college graduate, with sufficient skill as a typist to handle a certain amount of clerical work in sales department of company manufacturing hydraulic equipment, pipe, etc. Salary \$100-150 per month. Apply by letter. Location, East Bay.

R-3429-S ENGINEER, formerly mechanical, 35-45 years old, with forceful personality and ability to handle men, for production manager of company operating several scattered plants in California. Must have good record as executive. Salary \$6000 a year. Apply by letter with brief of experience and photo. Headquarters San Francisco.

W-1576-C-S CONSULTING ENGINEER knowing garage operation, garage equipment, car repair, car utilization and manufacture of parts for repairs, to advise on equipment for service stations and repair shops, on schedule of operation of trucks, busses and passenger cars and to organize maintenance and repair of trucks, busses and passenger cars of various makes. Experience in responsible charge of fleet operation and maintenance of trucks and busses desirable. Contract for one year, renewable. Salary open. One-third to one-half in paper rubbles for living expenses, balance in United States money to American bank. Applications only by letter which will be forwarded to Moscow for decision. Location, Russia.

K-340-W-2251-S REFRIGERATION Engineer who has had at least five years' experience in the preparation of specifications and designs, installation and servicing of refrigerating and ice making plants up to 100-ton capacity. Single man about 30 preferred. Four months' contract with option of renewal if services satisfactory. Salary about \$300 a mo., and traveling expenses to and from China. Apply by letter. Headquarters, New York.

CONSTRUCTION BODY TO STUDY PROBLEMS

Problems of the construction industries will be studied by the National Conference on Construction, which is a part of the National Business Survey Conference.

At a meeting of the executive committee of the former held at Washington, D. C., it was decided to select a limited number of problems which will lend themselves, step by step, to constructive inter-group action, for factual studies by committees to be appointed by the Secretary of Commerce Robert P. Lamont, and Julius Barnes, chairman of the executive committee.

Five subjects were chosen for study as follows: (1) Business reports for the construction industry, including methods for improving the statistical and trade information in this field; (2) elimination of wastes and undesirable practices in the construction field; (3) on improved financing of industry; (4) on organizations in the construction business, and (5) on the present organization of the building and construction business and the economic forces involved therein.

The carpenters of Chicago have secured the five-day week for an indefinite period with no increase.

Engineering News Section

BRIDGES

SACRAMENTO, Calif.—State Railroad Commission has authorized the city of Sacramento to proceed with construction of the proposed H Street subway; estimated cost, \$90,000, of which the Southern Pacific R. R. will pay one-half. Fred J. Klaus is city engineer.

OAKLAND, Cal.—Plans for the proposed new \$100,000 bridge over the estuary at Park Street were approved by officials of Oakland and Alameda at a recent meeting and have been forwarded to the War Department for final approval. According to plans prepared by George A. Posey, county surveyor, the bridge will be of the bascule type with a 250-foot channel span having a 15 foot clearance at mean high tide. The approaches to the bridge will not be more than 3 per cent.

SAN FRANCISCO.—U. S. Navy Department has officially notified Congress that it has no objection to the construction of the San Francisco-Alameda county bay bridge on the Rincon Hill-Yerba Buena-Key Route mole route. This sanction is a victory for the Kahn bill authorizing the permit for the building of structure as recommended by the Hoover-Young San Francisco Bay Bridge Commission.

The Kahn bill, in addition to granting permission to the California Toll Bridge Authority to construct the San Francisco bay bridge, also carries the permission of the Federal government to cross Yerba Buena island in the erection of the huge project.

The War Department will hold public hearings at the San Francisco City Hall on February 17 on the application of the California Toll Bridge Authority for a permit to build the bridge. This will in no way affect the legislation now pending in the House. Permits both from Congress and from the War Department are being sought by the toll bridge since the permit of the latter is revocable. This double application adds to the security in the financing of the huge project.

SACRAMENTO, Cal.—City Engineer Fred J. Klaus has completed plans for the proposed H street subway and bids will be asked by the city council after April 1. The project will cost \$90,000 of which one-half will be borne by the city. The project involves:

- (1) 179 30-foot untreated wooden piles;
- (2) 7,250 cu. yds. excavation;
- (3) 700 cu. yds. backfill;
- (4) 9,000 cu. yds. bow levee fill;
- (5) 35,000 lbs. reinforcing steel and mesh;
- (6) 950 cu. yds. Class "A" concrete;
- (7) 550 cu. yds. Class "B" concrete;
- (8) 66.25 tons 33-inch steel girder beams;
- (9) 6 tons structural steel flood gates;
- (10) 16,800 sq. ft. concrete pavement;
- (11) 3,960 sq. ft. 3 and 4-inch sidewalk;
- (12) 300 lin. ft. 2-inch, 2-rail pipe railing.

Project consists of an underpass, bow levee and flood gates.

Main structure, for underpass, to have gravity-type abutments built on

filling. Deck to provide for three tracks, and consisting of 16, 33-inch 202 lb. Bethlehem steel beams, with a clear span of 38 feet, topped with a 10-inch concrete slab with one-inch of bituminous waterproofing. Five foot concrete walkways outside of and paralleling tracks.

Vehicle portion to consist of 30-foot California State Highway Commission standard concrete pavement, with 14 feet of vertical clearance, and one 7-foot pedestrian walk. Drainage to be disposed of by means of a sump and an automatically controlled electric pump.

Bow levee to enclose the vehicular lane between the main structure and the flood gate structure—a distance of about 200 feet. Top of bow levee to be about 13 feet above natural ground, with crown width of 13 feet and 2:1 side slopes.

Flood gate structure to have counterforted retaining walls and to be equipped with two steel gates 10 feet high, hinged at the walls and meeting at the roadway center line when closed.

RICHMOND, Contra Costa Co., Cal.—Andrew Mahoney and Oliver Olson of the Richmond-San Rafael Ferry Co. have taken over the franchise held by Oscar Klatt for the construction of a bridge from Richmond to San Rafael and plan to commence construction in the immediate future. The bridge, according to tentative estimates, will cost \$15,000,000.

SAN FRANCISCO.—Until Feb. 25, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to construct bascule bridge over the Islals Creek Channel in 3rd St. Estimated cost, \$400,000. The structure will be a single leaf bascule bridge, 140 ft. span, 80 ft. overall width; 103 ft. between fenders with 6 ft. sidewalks. Provision will be made for two street railway tracks and the Belt Line Railroad in addition to vehicular traffic. Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from the Bureau of Engineering, 3rd floor, City Hall.

DREDGING, HARBOR WORKS & EXCAVATIONS

RICHMOND, Contra Costa Co., Cal.—Healy-Thibault Const. Co., 64 Pine St., San Francisco, at approximately \$190,000 awarded contract by U. S. Engineer Office, San Francisco, to furnish 51,900 tons of core rock at \$3.875 and 18,000 tons facing rock and building extension to training wall in Richmond Harbor at \$2.25. Complete list of unit bids published in issue of January 9.

STOCKTON, San Joaquin Co., Cal.—Until February 12, 3 P. M., under proposal No. 31-253, Specifications No. 2699, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, for dredging approximately 4,320,000 cubic yards of material in the Stockton 26-foot channel prism from the mouth of Mormon Channel in the City of Stockton to the mouth of Burnst Cut-off, in the

San Joaquin River. Specifications obtainable from above.

LOS ANGELES, Cal.—E. C. Eaton, chief engineer of the Los Angeles County Flood Control District, completing plans for Alamitos Bay outlet project and will probably present same to county supervisors shortly. The project involves channel, levees, jetties, bridges and dredging. The bridge will consist of one reinforced concrete structure and two pile trestle bridges. Approximately 500,000 cu. yds. dredging will be required. The total estimated cost is \$750,000.

SAN RAFAEL, Marin Co., Calif.—Franks Contracting Co., 260 California St., San Francisco, at \$31c cu. yd., awarded contract by U. S. Engineer Office, San Francisco, for dredging San Rafael Creek. Other bids: Pacific Coast Dredging Co., 32½; Dul-ton Dredging Co., 34c cu. yd.

SUISUN, Solano Co., Cal.—Hydraulic Dredging Co., Central Bank Bldg., Oakland, at 12c cu. yd. submitted low bid to U. S. Engineer Office, San Francisco, for 416,150 cu. yds. dredging in Suisun Bay. Complete list of bids, follow:

Hydraulic Dredging Co.	12c
S. F. Bridge Co.	125c
Engineer's estimate	98c

Taken under advisement.

SACRAMENTO, Cal.—L. K. Isham, Rio Vista, at \$8.20 each submitted low bid to U. S. Engineer Office, Sacramento, to drive and cap 100 redwood piles near Rio Vista, Solano County. Complete list of bids, all taken under advisement, follow:

L. K. Isham, Rio Vista	\$ 9.20
M. A. Jenkins, Sacramento	11.35
M. B. McGowan, S. F.	11.97
Ben C. Gerwick, S. F.	13.60

OAKLAND, Cal.—U. S. Engineer Office, Customhouse, San Francisco, announces a re-hearing of the Federal development program in the Brooklyn Basin, Oakland Harbor, in the San Francisco Customhouse, on February 26. It was indicated that discussion would center on the routing of the channel through the area and on the elimination of the "marine graveyard" on the southern side of the estuary. Original plans called for extensive dredging in the area.

OAKLAND, Cal.—American Dredge Co., 255 California St., San Francisco, at (a) \$32 cu. yd. for dredging and disposing of material and (b) at \$4 each to remove pile studs from water, submitted low bid to the City Port Commission for dredging slips fronting the Inland Waterways Pier at the foot of Webster and Franklin Sts.

Pacific Coast Dredging Co., San Francisco at (a) \$.625 and (b) \$.50, only other bidder.

Taken under advisement.

STREET LIGHTING SYSTEMS

CULVER CITY, Los Angeles Co., Cal.—Until 5 P. M., Feb. 16, bids will be received by city council to construct ornamental lighting system in

portions of Sepulveda Blvd. and Washington Blvd., about one mile, involving 91 No. 250 Marquette standards; A. & I. No. 15. Geo. E. Lee, city engineer.

MACHINERY AND EQUIPMENT

SAN FRANCISCO. Board of Supervisors has approved plans for a new \$25,000 boat for the Police Department and bids will be asked shortly.

LOS ANGELES, Calif.—Until 11 A. M., Feb. 11, bids will be received by the city purchasing agent, Thomas Oughton, for services of dump truck under Spec. No. 2330, as follows:
 (1) 1½-yard water level capacity;
 (2) 2-yard do;
 (3) 5-yard do;
 (4) 8-yard or larger level capacity;
 (5) flat bed trucks of not less than 22,000 lbs. gross capacity, stake body. 1

NEVADA CITY, Nevada Co., Cal.—City council plans immediate purchase of a new 2-ton fire truck chassis and the transfer of the body and equipment of the present truck.

OAKLAND, Calif.—Following bids taken under advisement by East Bay Municipal Utility District to furnish and deliver one compressor, Rix or equal:

R. C. Porter, 356 Adeline St., Oakland, \$1465 and \$1,655.

F. E. Hackley, 623 Market St., San Francisco, \$1,490.

Taylor and George, 58 Spear St., San Francisco, \$1,502.40.

Following firms submitted identical bids at \$1,555:

Contractors' Machinery Exchange, 115 5th Ave., Oakland;
 Harron, Rickard & McConne, San Francisco;
 Rix Co., San Francisco.
 Edw. R. Bacon Co., San Francisco;
 Gardner, Denver Co., San Francisco;
 Ingersoll-Rand Co., San Francisco.

ANAHEIM, Orange Co., Cal.—Until 8 P. M., Feb. 24, bids will be received by the Anaheim city council for furnishing one road grader. Specifications may be obtained from the office of the city manager. Certified or cashier's check, 10%. Edw. E. Merritt, city clerk.

SIMI, Ventura Co., Cal.—Until 8 P. M., Feb. 16, bids will be received by the Simi Valley Union Grammar School for furnishing one Ford 1½-ton truck chassis, equipped with a P. & C. school bus body of 36-passenger capacity. F. E. Bangnall, clerk.

SACRAMENTO, Cal.—Until February 5, 8:15 P. M., bids will be received by H. J. Denton, city clerk, to furnish two 4- or 6-cylinder standard engine type automobiles. Certified check 5% payable to City Controller required with bid. Further information obtainable from clerk.

LOS GATOS, Santa Clara Co., Cal.—City trustees order bids received, to be opened probably March 2, 8:30 P. M., to furnish a 4-cylinder motor truck. Specifications on file in office of city clerk.

SAN JOSE, Santa Clara Co., Cal.—County supervisors sell to San Jose Tractor & Equipment Co. for \$500, one Best 60-Tractor no longer required for county use.

OAKLAND, Cal.—Cochran & Celli, 413 8th St., at \$1045 each, awarded contract by city council to furnish three motor trucks for use of City Street Department.

SAN FRANCISCO—Wooldrich Mack Co., 219 North Los Angeles St., Los Angeles, at \$392 each (\$39,832) submitted low bid to the U. S. Forest Service, Fresno office, for the manufacture of 21 trail builders and installing same on government owned Cietrac tractors.

Davis Mfg. Co., Davis, Calif., at \$1016 each (\$21,210) only other bidder. Taken under advisement

WANTED

TO PURCHASE used Linn Tractor Truck, Lidalral-Wiley, Inc., 208 Columbia St., Seattle Washington.

RAILROADS

LAS VEGAS, Nevada—Lewis Const. Co., 300 S. Juanita St., Los Angeles, at \$455,509 awarded contract by U. S. Reclamation Service to construct Boulder Dam Railway, 10.5 miles in length with heavy construction in solid rock formation, including five tunnels within a mile. The project will extend from the summit, the end of the L. A. & Salt Lake Ry. section, down to the dam site. The principal items and quantities follow:

115,000 cu. yds. of common excav.;
 354,000 cu. yds. of rock excav.;
 163,000 cu. yds. of unclass. borrow;
 803,000 sta. yds. of overhaul;
 287,000 cu. yds. of long haul unclass. borrow "loaded into hauling equipment";
 705,000 yd. mi. of hauling and spreading "long haul unclass. borrow";

29,000 cu. yds. of tunnel excav.;
 200,000 ft. b.m. permanent tunnel timbering;

800 cu. yds. struc. excav., common
 1,200 cu. yds. of struc. excav., rock;
 6,000 cu. yds. of rock fill;
 220 cu. yds. of concrete;
 15,000 lbs. of reinforcement steel;

2,100 cu. yds. of rock riprap;
 2,600 cu. yds. of concrete crib wall;
 1,600 lin. ft. 24-in. corr. pipe;
 120 lin. ft. of 30-in. do;
 180 lin. ft. of 36-in. do;
 250 lin. ft. 42-in. do;
 200 lin. ft. of 48-in. do;
 600 lin. ft. of 60-in. do;
 30,000 ft. b.m. of bridges or trestle timbering;

500 lbs. of rail stringers in rail top trestle;
 2,000 lin. ft. of piling;
 80 pile point shoes;

22,800 cu. yds. of ballasting;
 7 miles of laying tracks (tie plated);
 10 miles of laying track (not tie plated);

J. C. Page is office engineer at Las Vegas. S. O. Harper is chief engineer at Denver.

BOULDER CITY, Nevada—Contract for furnishing the U. S. Bureau of Reclamation with railroad ties for use in the construction of the Hoover Dam railway has been awarded to Coast Fir and Cedar Products Co., Denver, Colo., at \$12,088.

FIRE ALARM SYSTEMS

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—Until February 16, 7:30 P. M., bids will be received by Daniel McSweeney, city clerk, to furnish and install traffic signals at intersection of Grand Ave. and Linden Ave., and at intersection of Grand Avenue and San Bruno Road. Certified check 10% payable to city of South San Francisco required with bid. Plans on file in office of clerk.

OAKLAND, Cal.—Until February 11, 12 noon, bids will be received by

Frank C. Merritt, city clerk, to furnish and install inter-departmental telephone sets for use of fire alarm system. Specifications on file in office of clerk.

FIRE EQUIPMENT

OAKLAND, Calif.—Hids opened by City Clerk F. C. Merritt for fire hose. Following is a complete list of the unit prices of the bids opened:

(A) 4,000 ft. 1½-in. fire hose;
 (B) 10,000 ft. 1½-in. fire hose;
 Fabric Fire Hose Co., (A) \$90 wax and gum treated; (B) \$130 wax and gum treated; (A) \$90 white jacket; (B) \$120 white jacket.
 Hewitt Gutta Percha Rubber Co., (A) \$44; (B) \$31.
 American Rubber Mfg. Co., (A) \$90 (B) \$130.
 Pioneer Rubber Mill, (A) \$23%; (B) \$46%.

SACRAMENTO, Cal.—Until February 14, 10 A. M., bids will be received by E. D. Adams, city controller, for the purchase of two 80-gallon copper chemical engine tanks, no longer required by the city. Same may be inspected at City Corporation Yard, 33rd and S Streets.

LODI, San Joaquin Co., Cal.—City Clerk J. F. Blakely has been instructed by the city council to secure prices on 800 feet of fire hose. Fire Chief George Polenske reports that 1400 ft. of hose is needed.

RESERVOIRS AND DAMS

DENVER, Col.—Until 2 P. M., Feb. 11, bids will be received by the U. S. Bureau of Reclamation, Denver, for furnishing 60x12-ft. ring gate control apparatus complete in accordance with Specifications No. 502-D. Delivery to be within 90 calendar days, and time in excess of that period will be evaluated at the rate of \$10 per day, and bids will be compared on this basis. Proposal guaranty, 10%.

HAYWARD, Alameda Co., Calif.—City Engineer Jesse E. Holly completes plans for the construction of a reinforced concrete reservoir of 1,000,000-gals. capacity to be constructed in Upper D St. The project involves:

(1) 39,40 M. M. lumber;
 (2) 12,670 sq. ft. 4-ply tar and gravel roofing;
 (3) 4,860 cu. yds. excavation;
 (4) 103.7 cu. yds. concrete in walls;
 (5) 283 cu. yds. concrete in floor, footings and columns;
 (6) 48,400 lbs. reinf. steel;
 (7) 1,270 lbs. asph. sealing compound
 (8) 201 lin. ft. 8-in. vit. clay E & S pipe;
 (9) 590 sq. ft. ¼-in. wire screening;
 (10) 920 lin. ft. 12-in. C. I. supply main (to be laid only);
 (11) 2 concrete valve boxes;
 (12) 1 12-in. C. I. inlet pipe installed;
 (13) 1 8-in. C. I. overflow pipe, " ;
 (14) 1 8-in. washout C. I. pipe;
 (15) 1 wooden indicator.
 NOTE: All C. I. pipe, specials and valves, furnished by the city.

PHOENIX, Arizona—Worthington Company, New York City, with general offices at Harrison, New Jersey, is reported to have been awarded the contract for the construction of the 200-mile pipe line by which natural gas is to be brought to the smelter of the Phelps Dodge Corp. in Douglas, from the fields in New Mexico. The Worthington Company, a Virginia corporation, is a subsidiary of The Worthington Pump and Machinery Co. The amount of the contract, it is reported, is between \$6,000,000 and \$7,500,000. It is understood that work will begin at once on the construction of the line, which under the contract between the Western Gas Company &

El Paso, Texas, and the Phelps Dodge Corporation, must be completed in time to begin delivery of gas June 1. The route of the 12-in. 900-lb. pressure line will be through Deming, New Mexico, and it is reported that it will be extended from Douglas to Sonora, Mexico, serving Phelps Dodge, Calumet and Arizona, Caananea Consolidated Copper Company and Arizona Edison Company.

PIPE LINES, WELLS, ETC.

KETTLEMAN CITY, Cal.—Associated Oil Co., Associated Oil Bldg., San Francisco, announced preliminary work on the reconditioning of its Coalinga - Monterey pipeline to fit it for gasoline transportation has been started, and that an extension through Kettleman, Lost Hills and Belridge fields will be constructed at a cost of \$750,000. The pipe has been ordered from the Youngstown Sheet & Tube Company and actual laying will start about February 15.

COALINGA, Fresno Co., Cal.—Lang Transportation Co., 5501 Santa Fe Ave. Los Angeles, awarded contract by Associated Oil Co. to construct 60 miles of new pipe line from the new Belridge oil fields into Coalinga.

Hutchinson Co., 1450 Harrison St., Oakland, awarded contract to recondition the Coalinga - Monterey Line, this work to include replacing damaged portions of re-welding and paint coating. This line is 106 mi. in length.

Contracts also call for the installation of electrically operated pump stations, one at Belridge to boost the oil this way, and the second one either at Station No. 1 or No. 2 to boost it over the mountains to the coast. The line is to be used for the transportation of Belridge and Kettleman high gravity crude oil to tide water at Monterey and will be removed from the tanker there by tanker to the company refineries. The entire construction work will be under the supervision of H. W. Wickstrom, who will maintain his headquarters in Coalinga.

SANTA CLARA, Santa Clara Co., Cal.—Bids will be asked at once by A. J. Cronin, city clerk, to drill well in connection with municipal water system. Bids will be received for both 14 inch and 16 inch. Specifications on file in office of clerk.

OAKLAND, Cal.—Pacific Coast Engineering Co., Foot of 14th St., Oakland, awarded contract by City Port Commission to furnish 4000 feet of 20 inch steel dredge pipe of two weights (a) \$2.33; (b) \$2.25.

WALNUT CREEK, Contra Costa Co., Cal.—Construction will be started at once by the Pacific Gas & Electric Co. on a natural gas pipe line from the Stanpac line which now terminates at Walnut Creek into the San Ramon Valley. Estimated cost \$43,000.

SEWERS AND SEWAGE DISPOSAL PLANTS

BERKELEY, Alameda Co., Cal.—Until February 10, 10 A. M., bids will be received by Florence E. Turner, city clerk, to construct storm sewer from Contra Costa avenue to Yosemite road, through Lots 8 and 26 Block 2, Thousand Oaks Court. Certified check 10% payable to city required with bid. Plans obtainable from City Engineer Harry Goodridge on deposit of \$10, returnable.

SAN FRANCISCO—Until February 15, 2:30 P. M., bids will be received by Board of Public Works to improve

Quint St., bet. Evans and Newcomb Aves., involving:

- (a) 258 lin. ft. 12-in. V.C.P. sewer;
- (b) 2,386 lin. ft. 15-in. do do;
- (c) 96 lin. ft. 18-in. do do
- (d) 96 lin. ft. 21-in. do do
- (e) 96 lin. ft. 18-in. do do
- (f) 10 brick manholes, complete;
- (g) 2 12x3-inch Y or T branches;
- (h) 34 15x3-inch Y or T branches

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor City Hall.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, is completing plans and supervisors will adopt an ordinance shortly authorizing a call for bids to construct sewer across Sunset Blvd. at Lincoln Way, involving:

- (a) 884 ft. 7-ft. 3-in. by 9-ft. reinf. concrete sewer.
- (b) 380 ft. 5-ft. 6-in. circular reinf. concrete sewer.

S. J. Hester is secretary of the Board of Public Works.

SOQUEL, Santa Cruz Co., Cal.—Proceedings have been started for formation of a sanitary district to finance construction of a sewer system in the Soquel and Capitola districts; estimated cost \$56,000. Lloyd Bowman, county surveyor, has completed preliminary surveys for the project.

LAS VEGAS, Nevada—The Benham Engineering Co. of Kansas City and Oklahoma City has been retained by the Las Vegas city commission to furnish the city engineering services in connection with a proposed bond issue to provide sewers and a sewage disposal plant for a population of 15,000. Koebig & Koebig, Los Angeles engineers, who have done some work for the city, are reported to have disposed of their interest in a three-year contract which the city signed in September, 1929, to the Benham Co., which will be represented in Las Vegas by Ray Murray.

MODESTO, Stanislaus Co., Calif.—Until February 4, bids will be received by H. E. Gragg, city clerk, to furnish sewer pipe to be used in sewer extensions in the industrial section of the city, the work to be carried on by day labor under the supervision of Frank J. Rossi, city engineer, to relieve unemployment. Total estimated cost \$16,000. The approximate quantities of pipe on which bids are now being received follow:

- (1) 1650 ft. 18-in. sewer pipe, concrete or vitrified;
- (2) 160 ft. 15-in. do;
- (3) 1070 ft. 12-in. do.

Further information obtainable from the city engineer.

OAKLAND, Cal.—Until February 5, 12 noon, bids will be received by Frank C. Merritt, city clerk, to sewer Grove St., bet. 36th and 38th Sts., involving:

- (1) 848 lin. ft. 24-in. vitrified pipe;
- (2) 48 lin. ft. 10-in. do do conduit;
- (3) 116 lin. ft. 12-in. do do do;
- (4) 2 brick manholes;
- (5) 1 brick and concrete manhole;
- (6) 1 catchbasin (21-in. opening);
- (7) 2 catchbasins (24-in. opening);
- (8) 2 existing catchbasins (to be reconstructed).

Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

REDWOOD CITY, San Mateo Co., Cal.—Engineer R. A. Klassen, 154 Arch St., Redwood City, completes plans and bids will be asked by the

county supervisors about March 2 or March 9, to construct sewer system in the Lomita Park Sanitary District, involving:

- Vitrified Clay Sewer**
- (1) 2700 lin. ft. 4-in.;
 - (2) 100 lin. ft. 6-in.;
 - (3) 5300 lin. ft. 8-in.;
 - (4) 6900 lin. ft. 10-in.;
 - (5) 9300 lin. ft. 12-in.;
 - (6) 1400 lin. ft. 15-in.;
 - (7) 8400 lin. ft. 18-in.;
 - (8) 3150 lin. ft. 21-in.;

- Cast Iron Sewer**
- (9) 96 lin. ft. 8-in.;
 - (10) 3420 lin. ft. 10-in.;
 - (11) 144 lin. ft. 12-in.;
 - (12) 4272 lin. ft. 14-in.;
 - (13) 120 lin. ft. 18-in.

Vit. Clay Wyes

- (14) 60 4x 8-in. wyes;
- (15) 120 4x10-in. do;
- (16) 140 4x12-in. do;
- (17) 60 4x15-in. do;
- (18) 130 manholes;
- (19) 23 M. bd. ft. trestles;
- (20) 2 pumps;
- (21) 2 pump houses;
- (22) 4 air and vacuum valves;
- (23) 4 pressure air valves;
- (24) 2 400 GPM pumps;
- (25) 2 1200 GPM pumps.

Further mention will be made of this project when bids are desired.

MISCELLANEOUS CONSTRUCTION

OAKLAND, Cal.—Alameda County Supervisors approve \$27,000 appropriation for preliminary surveys in connection with proposed Broadway low-level tunnel through the Contra Costa Hills. Supervisor Redmond C. Staats, chairman of the joint highway district which is to construct the bore, and County Surveyor George A. Posey, notified the board that the district is prepared to expend \$30,000 for surveys, maps and other preliminary work on the project. In accordance with the agreement with Contra Costa County, Alameda County is to appropriate 90 per cent of this sum or \$27,000, while Contra Costa County provides the balance. Preliminary work on the tunnel project has been under way for several months and includes the surveying of tentative routes for the Oakland approach to the proposed bore. A double tunnel is planned some 3000 feet in length and piercing the hills at a lower level than the present bore.

WATER WORKS

SAN FRANCISCO—Twenty-two identical bids were received by Leonard S. Leavy, city purchasing agent, under Proposal No. 682, to furnish San Francisco Water Department, standard weight galvanized steel pipe, made in U. S. A., in random lengths and coupled for mill shipment f.o.b. 629 Bryant St., San Francisco: (a) \$5,000 ft. 3/4-in., \$603.

(b) 3,000 ft. 1-in., \$859. Bidders and the time of delivery specified follow:

Petroleum Equip. Co., (35); Walworth Calif. Co., (35-40); Marshall-Nevell, (35-40); Dunham, Carrigan & Hayden, (35-40); E. E. Newhall Co., (45); Steam & Plumbing Service, (35-40); Crane Co., (35-40); Pacific Pipe Co., (35-40); Pacific Plumbing & Heating Co., (35-40); P. E. O'Hair, (35-40); Tay-Holbrook, (35-40); Pacific Plumbing & Supply Co., (35-40); Woodin and Little (35-40); Dalziel-Moller Co., (35-40); Richmond Sanitary Co., (35); Federal Pipe & Supply Co., (35-40); Olsen and Heffer-

man (40); The Turner Co. (35); C. G. Claussen, (35); Baker, Hamilton and Co., (30-40); Giddings Supply Co., (30-40); General Machinery and Supply Co. (25).

All bids taken under advisement.

TRIDLEY, Butte Co., Calif.—City trustees order bids called to furnish and deliver one carload of pipe to be used in replacements in connection with water system.

DENVER, Col.—Until 2 P. M., Feb. 25, bids will be received by the U. S. Bureau of Reclamation, Denver, for furnishing the following equipment:

(1) One clarifier unit suitable for a tank 55 feet square, top and bottom, with a net solution capacity of 32,175 cu. ft., complete;

(2) Alt. of Item (1), one clarifier unit suitable for use in a tank having square top and round bottom and having an average top and bottom area of 2925 sq. ft. with a net solution capacity of 32,175 cu. ft., complete;

(3) Alt. of Item 1—One clarifier unit suitable for use in a round tank of such diameter that the area of an inscribed square shall be 2925 sq. ft. and a net solution volume inside the inscribed square of 32,175 cu. ft., complete.

(2) Two clarifier units each suitable for use in a tank 45 feet square, top and bottom, and having a net solution capacity of 19,550 cu. ft., complete;

(2a) Alt. of Item 2—Two clarifier units each suitable for use in a tank with a square top and bottom whose average area is 1955 square feet and having a net solution capacity of 19,550 cu. ft., complete;

(3) One clarifier unit suitable for use in a tank 20 feet square, top and bottom, and having a net solution capacity of 688 cu. ft., complete;

(3a) Alt. of Item 3—One clarifier unit suitable for use in a tank with a square top and round bottom, whose average area is 861 sq. ft. and having a net solution capacity of 688 cu. ft., complete;

(4) One digester mechanism, complete;

(5) Four agitator units of the impeller type, complete;

(6) Two dry chemical feeders, complete;

(7) One recarbonization plant using coke for fuel, complete;

(7a) Alt. of Item 7—One recarbonization plant using fuel oil, complete;

(8) One duplex suction sludge pump, with motor, complete;

(9) Three pressure sludge pumps, with motors;

(10) One 12-in. basin level regulator, complete;

(11) Four rate of flow controllers of the Venturi type;

(12) Four operating tables, complete

(13) Four 4-in. hydraulically-operated valves, complete;

(14) Four 6-in. do.;

(15) Four 8-in. do.;

(16) Eight 1-in. do.;

(17) Seven 16-in. iron body bronze mounted, double disc, flanged, gate valves, complete;

(18) Three 12-in. iron body, bronze mounted double disc, flanged, gate valve, complete;

(19) Four 4-in. adjustable wedge type sluice gates, complete;

(20) Two chlorinators of the solution type, complete;

(21) One gravity type aerator, complete, with capacity to remove H2S from 450 G. P. M.;

(22) One gravity type aerator, complete with capacity to remove H2S from 900 G. P. M.

Combination bids may be submitted on any two or more items. Spec. No. 505-D.

DENVER, Colo.—As previously reported, L. a. y. Manufacturing Co., Washington Bldg., Los Angeles, at \$21,450 awarded contract by U. S. Reclamation Service for the fabrication and erection of two arc-welded or riveted plate steel tanks for water supply, Boulder City, Nev., Boulder City project. One tank will be 100 ft. in diameter and 34 ft. high, with No. 10 gauge sheet steel roof of 2,000,000 gallons capacity, to be erected in Boulder City. The other tank will be 10 ft. in diameter and 25 ft. high, without roof, of 235,000 gallons capacity, to be erected at the site of the filter plant about 4 miles east of Boulder City. Complete list of bids follows:

Pittsburgh - Des Moines Steel Co., Pittsburgh, \$20,511.

Chicago Bridge and Iron Co., Chicago, \$20,710.

Pittsburgh - Des Moines Steel Co., Des Moines, \$20,753.

Lacey Mfg. Co., Los Angeles, \$21,050; accepted.

Western Pipe and Steel Co., Los Angeles, \$22,064.

Kirk - Morrow Iron Wrks Co., Iola, Kan., \$22,083.

Petroleum Iron Works Co. of Texas, Beaumont, \$23,969.

Graver Tank and Mfg. Corp., East Chicago, Ind., \$24,500.

McClintic - Marshall Co., Leetsdale, Pa., \$24,790.

Consolidated Steel Corp., Los Angeles, \$24,935.

Lakeside Bridge and Steel Co., Milwaukee, \$28,644.

Stacy Mfg. Co., Cincinnati, \$29,580.

Standard Boiler and Steel Works, Los Angeles, \$30,491.

Stacy Pros. Const. Co., Cincinnati, \$32,600.

Freeman Tool Co., Los Angeles, \$34,350.

Freeman Mfg. Co., Racine, Wis., \$64,847.

SAN JOSE, Santa Clara Co., Cal.—Wallace & Tiernan, 7 Front St., San Francisco, at \$570 awarded contract by city council to furnish and install chlorinator for Alum Rock natatorium.

SAN FRANCISCO—Installation of facilities for pumping Hetch Hetchy water over Altamont pass, pending completion of the Coast Range tunnels of the Hetch Hetchy system, would cost the city \$1,000,000, with \$100,000 for the annual operating cost, City Engineer O'Shaughnessy has reported to the Board of Supervisors.

This is in addition to the cost of laying the pipeline across the San Joaquin valley, which is part of the entire Hetch Hetchy aqueduct system. O'Shaughnessy recently submitted an estimate of \$7,700,000 to lay the San Joaquin line, allowing eighteen months for the job, with an added 10 per cent if the work speeded up.

In his setup of cost of the line, the City Engineer gave the following figures:

Relaying Newark-San Lorenzo pipe and buying new pipe for added mileage, \$875,000; pumping station, \$75,000; transmission line eight miles to substitution, \$40,000; bridges, culverts, flow-gates, rights, fences, etc., \$100,000; right-of-way for pipeline and transmission line, \$40,000; administration, engineering and emergencies, \$66,444; total, \$896,994.

The figures do not include payments to be made to the East Bay Water Company for annulment of contract or for possible damage to lands.

SEATTLE, Wash.—A. Del Guzzo, Seattle, at \$41,122, bidding on dipped steel pipe with Dresser couplers, submitted low bid to Miller Engineering Co., Burke Bldg., Seattle, to construct

water supply system in Water District No. 38; pipe 1-inch to 6-inches in diameter. Taken under advisement.

SEATTLE, Wash.—Ulen & Co., New York, N. Y., granted a 35-year franchise by the King County Commissioners for a water system to be constructed in the territory from the north limits of Seattle to the Snohomish county line. The New York firm, represented by John D. Bird, a Snohomish county engineer, will construct a system costing \$1,600,000. Water for the system will be drawn from the Tolt river and it is planned to construct a reservoir at the highest point between Seattle and Everett so that not only the territory between these two cities may be served, but in order that if necessary in case of emergency the supply of Seattle and Everett may be augmented by the system. The state department of hydraulics has granted Ulen a permit to use water from the Tolt river. The system will be capable of serving the industrial and domestic needs of 1,000,000 people in the district specified by the franchise.

DENVER, Colo.—Until 2 P. M., Feb. 13, bids will be received by the U. S. Bureau of Reclamation, 1441 Welton St., Denver, to furnish three motor-driven, centrifugal pumps, each having a discharge capacity of 100,000 G. P. M., when operating under a total effective head of 115 ft. Period of time for delivery is not to exceed 20 calendar days after receipt of notice of award. Each day in excess of that time will be evaluated at the rate of \$50, and bids will be compared on this basis. Specifications No. 504-D. S. O. Harper, chief acting engineer. Proposal guaranty, 10%.

EXETER, Tulare Co., Cal.—Election will be held February 26 to vote bonds of \$24,000 to finance improvements to municipal water system involving 200,000-gal. storage tank, well drilling, installation of a deep well and booster pumps and extensions to mains. Irving H. Althouse, engineer, Porterville.

SAN BERNARDINO, Cal.—American Cast Iron Pipe Co., Los Angeles, awarded contract by city water commission at \$4,40 per ft. for 2100 ft. 20-in. class 250, cast iron pipe, bell and spigot, in 16-ft. lengths, of .38-in. thickness, f o. b. trenchside. Other bids were:

National Cast Iron Pipe Co., \$4.36 ft., 12-ft. lengths, .36-in. thickness.

U. S. Pipe & Foundry Co., \$4.39 ft., Delavan, 0.86-in. thickness, in 12-ft. lengths.

SAN FRANCISCO—Until February 11, 10 A. M., under Schedule No. 928-11-197, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver:

3216 lin. ft. Pipe, water, bell and spigot, centrifugally cast iron, in lengths to lay 16 ft. as follows:

2016 lin. ft. 4-in. diameter;

1200 lin. ft. 6-in. diameter;

33 Fittings, pipe, water, cast iron, class "D", for above pipe, bells must fit pipe in above items.

Six one-fourth (90 deg.), 4-in., bell and spigot;

Six one-fourth (90 deg.), 6-in. do.;

Four one-eighth (45 deg.), 4-in. do.;

Four one-eighth (45 deg.), 6-in. do.;

Two one-sixth (22½-deg.) 4-in. bell and spigot.

One cross, size 6x6x4¼-in., bells all around;

Six tees, size 4x4x4-inch, bells all around.

One tee, size 6x6x4-inch, do.;

Two 4-in. and one 6-in. Gate Valves (water gates) hub - ends, iron body, with brass trimmings, wedge gate non rising or stationary stem, for 175

lb. water working pressure. Hubs to be rough cast. To be equal and similar to Crane Co.'s at \$2.

Nine valves, angle, size 2½-in. for five hydrants, heavy pattern cast brass, for 250 lbs. working pressure, union bonnet, iron hand wheel, bronze seat, lather valve disc. Complete with cast brass cap and brass chain. To be equal and similar to Fig. No. 118 as manufactured by M. Greenberg's Sons.

SAN FRANCISCO—Until Feb. 11, 10 A. M., under Schedule No. 928-21-197, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver:

One Pump, centrifugal, motor driven, direct connected, single stage, double suction, vertically split, with bronze impeller of enclosed type, ball bearing equipment with renewable casing wearing rings, water sealed stuffing box, stationary steel shaft. Pumps so arranged that it may be dissembled without disturbing pipe connections. Motor to be 5 horse power capacity, 3500 R.P.M., 60 cycle, 2 phase, 220 volt. To be equal and similar to motor manufactured by Ideal Electric and Mfg. Co., Mansfield, O. To be complete with a float switch operated by a magnetic switch, similar and equal to figures No. 10 and No. C. R. 7006 D-30 General Electric Co.'s respectively. It is contemplated to install pump at a well 200 feet deep, lined with 4½-in. dia. casing. Capacity 60 gals. per minute, drawn down 10 feet and friction head around 75 feet. Conservative friction head 20 feet. Pump to be equal and similar to Class W.H.D. as manufactured by the Pennsylvania Pump and Compressor Co., Easton, Pa.

One Pump: turbine, motor driven. Pump to be standard water or lubricated, but bids will be entertained for oil lubricated pump. A guarantee must be furnished that the pump supplied will have no leakage of grease or oil below the water surface. Motor to be 5 horse power capacity, 1750 R.P.M. (which must not be exceeded), 60 cycle, 2 phase, 220 volt. Pump to include 1 control box, or magnetic starter with push button control; also 1 safety switch, 3 pole, fused type, for 20 volt, A.C. current. It is contemplated to install pump at a well 300 feet deep, and to be fitted inside of 6-in. casing. Capacity 40 gals. per minute, static water level 6 ft., drawn down, driving dry weather, and for lift above ground 75 feet, friction head 10 feet. Pump to be equal and similar to Pomona pump as manufactured by Pomona Pump Co., Pomona, Calif. 5

GLENDALE, Los Angeles Co., Cal.—Pacific Pipe & Supply Co., 1002 Santa Fe Ave., awarded contract by city council January 29 for hub end gate valves, as follows:

- (1) six 30-in. at \$279.39 each;
 - (2) one 24-in. at \$173.95;
 - (3) four 30-in. flange at \$297.39 ea.
 - (4) two 20-in. flange, at \$147 ea.
- All bids on item (5) were rejected.

SACRAMENTO, Cal.—Until Feb. 13, bids will be received by H. G. Denton, city clerk, to furnish and deliver gate valves for municipal water department; estimated cost \$1,800. Specifications on file in office of clerk. Fred J. Klaus, city engineer.

COLUSA, Colusa Co., Calif.—City council plans to extend municipal water system to new county hospital site, involving 6-inch pipe; estimated cost, \$4500. The county supervisors will share the cost.

GRIDLEY, Eutte Co., Calif.—Because of "engineering technicalities" bids to furnish and install one Diesel engine generating station with auxiliary pumps, motors, equipment and materials, in connection with the Munic-

ipal Light and Water Plant, have been rejected and new bids will be asked at once. Bidders under the previous call were: Worthington Co., San Francisco, \$10,648 for 100-hp., and \$11-898 for 125-hp.; Fairbanks, Morse Co., San Francisco, \$15,893; U. S. Machinery Co., San Francisco, \$17,519.

STREETS AND HIGHWAYS

SAN FRANCISCO—Until February 18, 2:30 P. M., bids will be received by Board of Public Works to improve crossing of Bancroft, Quint and Thornton Aves., involving:

- (a) 106 lin. ft. armored concrete curbs;
- (b) 70 lin. ft. 10-inch V.C.P. culvert
- (c) 775 sq. ft. 1-course concrete sidewalks;
- (d) 3 brick catchbasins;
- (e) 5,340 sq. ft. asphalt conc. pavement, 2-in. asph. conc. surface on 6-in. class "F" concrete base.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall.

SAN FRANCISCO—Until February 18, 2:30 P. M., bids will be received by Board of Public Works to improve crossing of Jennings and Underwood Aves., involving:

- (a) 95 lin. ft. armored concrete curb;
- (b) 660 sq. ft. 1-course concrete side walks;
- (c) 62 lin. ft. 10-in. V.C.P. culvert;
- (d) 2 brick catchbasins;
- (e) 4,413 sq. ft. asphalt conc. pavement, 2-in. asph. conc. surface on 6-in. Class "F" conc. base.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall.

SAN FRANCISCO—Until February 18, 2:30 P. M., bids will be received by Board of Public Works to improve University Ave. bet. Silver and Silliman Aves., involving:

- (a) 96 lin. ft. armored concrete curb;
- (b) 1,926 sq. ft. asphalt conc. pavement, 2-in. asph. conc. surface on 6-in. Class "F" conc. base.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall.

OAKLAND, Cal.—Hutchinson Co., 1450 Harrison St., Oakland, at \$1633 awarded contract by City Port Commission for 11,000 sq. ft. bituminous surface paving on extension of Fourteenth Street Wharf.

SONOMA-NAPA COUNTIES, Cal.—Directors of Joint Highway District No. 7, for the construction of the Callstoga-Hendelsburg road, meeting in Napa, voted to ask the State Highway Commission for \$50,000 and Sonoma County for \$150,000 to finance completion of the 10½ miles of paved highway through Knights and Alexander Valleys to Sonol Creek in Sonoma County, involving grading and asphaltic concrete surfacing. E. A. Feugh, Courthouse, Santa Rosa, is engineer for the district.

SAN FRANCISCO—E. J. Treacy, Call Bldg., at \$1,129.50 submitted only bid to Board of Public Works to improve Madison St. bet. Burrows and Felton Sts. (where not), involving:

- (a) 125 lin. ft. armored conc. curb, \$1.25;
- (b) 100 lin. ft. 6-in. V.C.P. side sewer, \$1;
- (c) 2,495 sq. ft. asphalt conc. pavement, 1½-in. asph. conc. surface on 6-in. class F conc. base, \$35.

SAN RAFAEL, Marin Co., Cal.—Property owners in the Forbes Avenue District adjacent to I and J Streets seek authorization of city council to pave with 3-inch asphaltic concrete under private contract. Referred to City Manager Herbert K. Brainerd for report.

SALINAS, Monterey Co., Cal.—Until February 19, 10 A. M., bids will be received by C. F. Joy, county clerk, for grading a portion of the Monterey-Castroville Road, 1 mile north of Seaside in Supervisor District No. 5, involving 14,600 cu. yds. Plans obtainable from county surveyor Howard Cozzens on deposit of \$10, returnable.

SALINAS, Monterey Co., Cal.—Until February 19, 10 A. M., bids will be received by C. F. Joy, county clerk, for grading a portion of the Soledad-King City Road from a point 5 miles south of Soledad to a point 2 miles north of Coburn, in Supervisor District No. 3, involving 85,000 cu. yds. Plans obtainable from County Surveyor Howard Cozzens on deposit of \$10, returnable.

SAN FRANCISCO—E. J. Treacy, Call Bldg., at \$1,257.14 submitted low bid to Board of Public Works to improve crossing of Oxford and Silliman Sts., involving:

- (a) 63 lin. ft. armored concrete curb;
 - (b) 2 brick catchbasins;
 - (c) 90 lin. ft. 10-in. V.C.P. culvert;
 - (d) 284 sq. ft. 1-course conc. sidewalks;
 - (e) 3286 sq. ft. asphalt concrete pavement, 2-in. asph. conc. surface on 6-in. class F concrete base.
- Complete list of bids follows:

- E. J. Treacy (a) \$1; (b) \$80; (c) \$1; (d) \$15; (e) \$25; total \$1,257.14.
- W. J. Tabin (a) \$1; (b) \$100; (c) \$1; (d) \$18; (e) \$25; total \$1,325.62.

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipment;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.

Phone GARfield 4374

San Francisco

C. L. Harney (a) \$1; (b) \$100; (c) \$1; (d) \$20; (e) \$25; total \$1,331.30.
 C. C. Paxton (a) \$1; (b) \$90; (c) \$1-50; (d) \$15; (e) \$25; total \$1,332.10.
 Municipal Const. Co. (a) \$1; (b) \$90; (c) \$2; (d) \$15; (e) \$24; total \$1,-344.24.

SAN FRANCISCO.—Fay Improvement Co., Phelan Bldg., at \$2,423.96, awarded contract by Board of Public Works to improve Duncan Street bet. Douglass St. and Hoffman Ave., involving:

204 lin. ft. concrete curb, \$148;
 80 lin. ft. V.C.P. side sewers, \$159;
 4,072 sq. ft. asphalt conc. pave., \$0.484.

SAN FRANCISCO.—Until February 18, 2:30 P. M., bids will be received by Board of Public Works to improve Quesada Ave., bet. Hawes and Griffith Aves., involving:

- (a) 125 lin. ft. armored concrete curbs;
- (b) 125 lin. ft. 6-in. V.C.P. side sewer;
- (c) 3,125 sq. ft. asphalt concrete pavement, 2-in. asphalt conc. surface and 6-inch Class "M" concrete base.

Certified check 10% payable to Clerk of the Board of Supervisors required with bids. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall.

PLUMAS COUNTY, Cal.—Until February 25, 2 P. M., bids will be received by State Highway Commission to grade 0.7 mile between Paxton and Keddie.

See call for bids under official proposal section in this issue.

OAKLAND, Cal.—Until Feb. 12, 12 noon, bids will be received by Frank C. Merk, city clerk, to improve Patterson Ave. adjacent to Harbor View Ave. Project involves:

- (1) 608 cu. yds. excavation;
- (2) 305 lin. ft. concrete curb;
- (3) 616 sq. ft. concrete gutter;
- (4) 4,474 sq. ft. of penetration macadam pavement;
- (5) 1,413 sq. ft. cement sidewalk;
- (6) 136 lin. ft. 6-in. pipe sewer;
- (7) 1 manhole;
- (8) 1 lamp pole;
- (9) 6 Y branches.

Certified check 10% payable to city required with bid. Plans in office of clerk. Walter N. Frickstad, city engineer.

MENLO PARK, San Mateo Co., Cal.—City Engineer Bert J. Mehl ordered to prepare plans to improve four streets in district lying mainly east of the Southern Pacific tracks; estimated cost \$27,500.

CALIFORNIA.—Bids will be asked in the immediate future by the State Highway Commission, C. H. Purcell, state highway engineer, for the following projects for which plans have already been completed:

Grading and paving 18 miles between Los Alamos and Santa Maria, Santa Barbara County, including construction of Los Alamos Creek bridge on the Coast Route, \$321,600.

Flacing oil surface for 19.1 miles between the Abbott Mine and five miles west of Williams, Lake and Colusa Counties, on the Tahoe-Ukiah highway, \$292,000.

Grading and paving five miles between Claydel station and the west end of Bostonia line change, Las Caches line change, and Flynn Springs line change on the San Diego-El Centro Highway, San Diego County, \$240,000.

Grading and paving 8.3 miles between a point six miles north of the southerly county line of Riverside

County and Avenue 62 of the San Bernardino-El Centro highway, \$481,400.

Grading and widening pavement to 20 feet between Highline Canal and Sand Hills, a distance of 20.9 miles in Imperial County, on the El Centro-Yuma highway, \$150,000.

Grading and surfacing shoulders for 19.4 miles between Yuba City and Biggs, Sutter and Butte Counties, on the Pacific Highway, east side, \$87,300.

Grading and paving the west entrance to San Bernardino, including provisions for payment of State's share of viaduct on San Fernando-San Bernardino Highway, San Bernardino County, \$15,000.

Grading and paving 7.5 miles between Tipton crossing and Tulare, and construction of bridges across Elk Bayon River, Tule River and canal, Tulare County, on the Golden State Highway (Valley route), \$635,000.

Construction of the boundary creek bridge and approaches and the Jacumba grade separation in San Diego County, San Diego-El Centro Highway, \$106,000.

Grading and paving 3.7 miles between Newport Beach, Corcoran and Delmar and bridge across the north channel of Newport Bay in Orange County, Coast Highway, \$231,300.

SAN FRANCISCO.—Until Feb. 13, 11 A. M., bids will be received by Constructing Quartermaster, Ft. Mason, for resurfacing roads and constructing cement sidewalks and curbs at Letterman General Hospital. Spec. obtainable from above. (4588)

ALAMEDA, Alameda Co., Cal.—City Engineer Barnett Hamilton is completing plans for proposed new highway through eastern Alameda to the Bay Farm Island Bridge; will be 60 ft. wide extending from the gore at Washington and High Streets in a direct line to the bridge. Estimated cost \$45,000.

IMPERIAL COUNTY, Cal.—Griffith Co., Los Angeles Railway Building, Los Angeles, at \$142,323 awarded contract by State Highway Commission to grade and pave with asphalt concrete, 6.3 miles between Trifolium Canal and Kane Springs. Complete list of unit bids appear on page five of this issue and were previously published in issue of Jan. 27.

SAN JOSE, Santa Clara Co., Cal.—City council declares intention (5288) to improve Emory St. bet. Dana Ave. and Park Ave., and a portion of Park Ave., involving grading, 1½-in. asphalt concrete surface pavement on 2½-in. asphalt concrete base with 3-in. gravel cushion, cement concrete curbs and walks, 4-in. vitrified sewer laterals, cement concrete storm water in-

lets, etc. 1911 Act. Hearing Feb. 16. John J. Lynch, city clerk. Wm. Popp, city engineer.

STOCKTON, San Joaquin Co., Cal.—Until 10 A. M., Feb. 16, bids will be received by E. Graham, county clerk, to improve 4.7 miles of Farmington-Hollock Road from Upper Copperopolis Road to the Linden Road, involving:

- (1) 18,500 cu. yds. grading;
- (2) 11,500 tons base course;
- (3) 1060 tons crushed rock;
- (4) 470 tons rock chips;
- (5) 385 tons pea gravel;
- (6) 252 bbis. fuel oil;
- (7) 112 tons asphaltic oil;
- (8) 19 installing pipes.

Cash contract.
 Estimated cost \$34,000. Plans obtainable from county surveyor, Julius B. Manthey.

FRESNO, Fresno Co., Cal.—California Road and Street Improvement Co., Bank of Italy Bldg., Fresno, at \$8,965.19 awarded contract by city council (108-D) to improve Terrace Ave. bet. Palm and Wilson Aves. Thompson Bros., Fresno, only other bidder at \$9,577.71. Project involves:

- 45,783 sq. ft. grading;
- 22,511 sq. ft. asphalt paving;
- 9,789 sq. ft. sidewalk;
- 1,968 lin. ft. concrete curb;
- 2,311 sq. ft. concrete gutter;
- 48 lin. ft. 12-in. culvert;
- 114 lin. ft. 18-in. culvert.

4 culvert manholes.

PLUMAS COUNTY, Calif.—As previously reported, bids will be received February 25 to grade 0.7 mile between Paxton and Keddie. Project involves:

- (1) 41 sta. clear and grub right of way;
- (2) 76,350 cu. yds. rdwy. excav. unclassified;
- (3) 72,300 sta. yds. overhaul;
- (4) 1735 cu. yds. struc. exc.;
- (5) 10 cu. yds. class A concrete in structures;
- (6) 1100 lbs. bar reinf. steel (struc.);
- (7) 828 ft. 18-in. corr. metal pipe;
- (8) 1350 cu. yds. rubble masonry retaining wall;
- (9) 41 sta. finish roadway;
- (10) 24 monuments in place.

State will furnish corrugated metal pipe.

SAN JOSE, Santa Clara Co., Cal.—City council has started proceedings for installation of sewers in Willow St., Prevost St., and Delmas Ave. John J. Lynch, city clerk. Wm. Popp, city engineer.

OAKLAND, Cal.—Until February 13, 12 noon, bids will be received by Frank C. Merritt, city clerk, to construct cement sidewalks in portions of 92nd Ave. 1911 Act. Certified check 10% payable to city required with bid. Specifications on file in office of clerk. Walter N. Frickstad, city engineer.

DO NOT RISK AN EXPERIMENT

SPECIFY -- USE

Timpie Hydrated Lime

STRONG—PURE—PLASTIC

Ten Years of Uniformly Satisfactory Experience in High

Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

Sold by Representative Dealers Everywhere

OAKLAND, Cal.—Hutchinson Co., 1450 Harrison St., Oakland, at \$1692 submitted low bid to City Port Commission for 11,000 sq. ft. bituminous surface paving on extension of Fourteenth Street Wharf, Heafey-Moore Co., Oakland, only other bidder at \$2460. Taken under advisement.

SAN JOSE, Santa Clara Co., Cal.—Streets and Sewers Committee of the city council contemplates an extensive street improvement program, including 3 miles of road grader and shoulder cutting work; 19 miles of filling chuck holes with gravel and the full-width paving of various streets, involving in excess of 800,000 sq. ft. in all. John J. Lynch is city clerk. Wm. Fopp, city engineer.

SAN JOSE, Santa Clara Co., Cal.—County supervisors petitioned to re-gravel Rosa St., bet. First and Fifth Sts. and Second, Third, Fourth and Fifth Sts., from Rosa St. westerly. Taken under advisement. Robert Chandler, county surveyor.

OAKLAND, Cal.—Central-California Roads Co., 28th and Poplar Sts., Oakland, at \$74,591 awarded contract by city council to improve portions of E 8th St., E 10th St., 3rd Ave., 5th Ave., 6th Ave. and 7th Ave., involving:

- (1) 351,339 sq. ft. grading, \$4025;
- (2) 7,947 lin. ft. concrete with steel curb guard, \$48;
- (3) 293,920 sq. ft. concrete pavement, \$19;
- (4) 22,663 sq. ft. cem. sidewalk, \$154;
- (5) 3,576 sq. ft. cem. driveways, \$216
- (6) 261 lin. ft. of 3x29-in. corr. iron and conc. culvert, \$432;
- (7) 4 cast iron hardholes, \$680;
- (8) 66 lin. ft. 10-in. vit. pipe conduit, \$147;
- (9) 38 lin. ft. 12-in. do, \$159;
- (10) 1 catchbasin (24-in. opening), \$77;
- (11) 1 catchbasin (21-in. opening), \$68
- (12) 280 lin. ft. 8-in. vit. pipe sewer, \$147;
- (13) 1 lamphole, \$17.

City will pay 29% of cost from the Treasury. Complete list of unit bids received published in issue of Feb. 2.

OAKLAND, Cal.—Until February 19, 12 noon, (date advanced from Feb. 12) bids will be received by Frank C. Merritt, city clerk, to improve Patterson Ave. adjacent to Harbor View Ave. Project involves:

- (1) 608 cu. yds. excavation;
- (2) 305 lin. ft. concrete curb;
- (3) 616 sq. ft. concrete gutter;
- (4) 4474 sq. ft. penetration macadam pavement;
- (5) 1413 sq. ft. cement sidewalk;
- (6) 136 lin. ft. 6-in. pipe sewer;
- (7) 1 manhole;
- (8) 1 lamphole;
- (9) 3 branches.

Certified check 10% payable to city required with bid. Plans on file in the office of the clerk. Waltern N. Frickstad, city engineer.

FRESNO, Fresno Co., Cal.—As previously reported, California Road and Street Improvement Co., Bank of Italy Bldg., Fresno, at \$8,965.19 awarded contract by city council to improve Terrace Ave. bet. Palm and Wilson Aves. Unit bid follows:

- 45,783 sq. ft. grading, \$302;
- 22,511 sq. ft. asphalt paving, \$19;
- 9,789 sq. ft. sidewalk, \$18;
- 1,968 lin. ft. concrete curb, \$50;
- 2,311 sq. ft. concrete gutter, \$22;
- 48 lin. ft. 12-in. culvert, \$2;
- 114 lin. ft. 18-in. culvert, \$3;
- 4 culvert manholes, \$20.

SAN FRANCISCO—Until February 18, 2:30 P. M., bids will be received by Board of Public Works to improve Folsom St., bet. Crescent and Ogden Aves., involving:

- (a) 142 lin. ft. concrete curbs to be reset;
- (b) 15 lin. ft. 6-in. V.C.P. side sewer
- (c) 2,995 sq. ft. 6-in. Class "E" concrete pavement.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor City Hall.

SAN FRANCISCO—Until February 18, 2:30 P. M., bids will be received by Board of Public Works to improve Victoria Ave., bet. Randolph and Stanley Sts., involving:

- (a) 150 lin. ft. armored concrete curb;
- (b) 75 lin. ft. 6-in. V.C.P. side sewer
- (c) 2,100 sq. ft. 6-in. Class "E" concrete pavement.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall.

SAN FRANCISCO—Until February 18, 2:30 P. M., bids will be received by Board of Public Works to improve Barneveld St., bet. Gavin and Sweeney Sts., involving:

- (a) 75 lin. ft. armored concrete curb;
- (b) 60 lin. ft. 6-in. V.C.P. side sewers;
- (c) 2,250 sq. ft. asphalt conc. pavement, 2-in. asphalt conc. surface on 6-in. Class "F" concrete base.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall.

SACRAMENTO, Calif.—City council declares intention (2206) to improve alley between Y St. and Burnett Way, from 24th St. to point 279-ft. westerly, involving c. i. drains with vitrified sewer connections, construct vitrified sewer, 1-inch water main connections, grading, hydraulic concrete pavement, 1911 Act. Bond Act 1915. Hearing Feb. 19. H. G. Denton, city clerk. Fred J. Klaus, city engineer.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, completes plans to improve Quint St. bet. Oakland and Palou Aves.; estimated cost \$3,740. Project involves:

- (a) 400 lin. ft. armored concrete curb;
- (b) 8,230 sq. ft. asphalt conc. pavement, 2-in. asphalt conc. surface, 6-inch class F base;
- (c) 66 lin. ft. 6-in. V.C.P. side sewer;
- (d) 32 lin. ft. 8-in. do;
- (e) 1 brick manhole;
- (f) 47 lin. ft. granite curb (to be reset)
- (g) 47 lin. ft. conc. curb (to be reset)
- (h) 3 brick catchbasins (to be reset)
- (i) 10 lin. ft. 10-in. V.C.P. culvert;
- (j) 250 sq. ft. asphalt concrete conform pavement;
- (k) 150 sq. ft. 1-course concrete sidewalks.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, completes plans to improve Dewey Blvd., Laguna Honda and Taraval Sts.; estimated cost \$25,000. Project involves:

- (a) 400 cu. yds. excavation;
- (b) 3,297 lin. ft. unarmored concrete curbs, including reconstruction of adjacent conc. sidewalks;
- (c) 4 brick catchbasins;
- (d) 240 lin. ft. 10-in. V.C.P. culvert;
- (e) 350 lin. ft. 6-in. V.C.P. sewers;
- (f) 85,923 sq. ft. asphalt conc. pavement, 2-in. asphalt conc. surface, 6-in. class F concrete base.

DALY CITY, San Mateo Co., Cal.—City council, officials of the State Highway Commission and the City

and County of San Francisco, will hold a joint meeting in the immediate future to consider plans for widening Mission Street through a section of San Francisco and in Daly City, the main artery in the state highway system in and out of San Francisco.

SAN FRANCISCO—Until February 18, 2:30 P. M., bids will be received by Board of Public Works to improve De Long St., bet. Head and San Diego Aves., involving:

- (a) 298 lin. ft. armored concrete curb;
- (b) 43 lin. ft. 6-inch V.C.P. side sewer;
- (c) 3,921 sq. ft. asphalt conc. pavement, 2-in. asphalt conc. surface on 6-inch Class "F" concrete base.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall.

SAN FRANCISCO—Until February 18, 2:30 P. M., bids will be received by Board of Public Works to improve Victoria Ave., bet. Shields and Sargent Aves., involving:

- (a) 75 lin. ft. armored concrete curb;
- (b) 15 lin. ft. 6-inch V.C.P. side sewer;
- (c) 1,125 sq. ft. 6-inch Class "E" concrete pavement.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall.

CLARK COUNTY, Nev.—Until Feb. 18, 2 P. M., bids will be received by State Highway Commission, Carson City, Nevada, for grading, structures and gravel surfacing on 10.18 miles from Las Vegas to 10 miles southeast, involving:

- (1) 53,400 cu. yds. excav. unclass.;
- (2) 41,681 yds. sta. overhaul;
- (3) 10.5 mi. prepare subgrade and shoulders;
- (4) 755 lin. ft. remove fence;
- (5) 5063 lin. ft. constructing fence, Type 1;
- (6) 1677 lin. ft. do. Type 2;
- (7) 35,200 cu. yds. crushed rock or crushed gravel surf. in place;
- (8) 2860 cu. yds. coarse screenings in stockpile;
- (9) 1180 cu. yds. fine screenings in stockpile;
- (10) 60 cu. yds. class A concrete;
- (11) 83 cu. yds. class B concrete;
- (12) 1320 lin. ft. 18-in. corr. metal pipe in place—asphalt coated;
- (13) 444 lin. ft. 24-in. do.;
- (14) 112 lin. ft. 30-in. do.;
- (15) 144 lin. ft. 36-in. do.;
- (16) 22 mountings;
- (17) lump sum, furnish water equip.;
- (18) 1750 M. gal. applying water;
- (19) 2 furnish and install posts for Federal survey markers.

Certified check 5%. Plans may be obtained upon deposit of \$15, of which \$10 will be returned. S. C. Durkee, state highway engineer.

The largest single compartment aluminum truck tank ever built in America was completed last week by the Industrial Steel Products, Ltd., 1301 59th St., Oakland. Weighing only 2150 pounds, the great truck has capacity of more than 3200 gallons and was made for Harm & Frasher, commercial haulers of Fresno. The tank is 18 feet long and is supported by six bolsters, two of which are steel. Two other similar tanks, arching constructed by the Oakland concern, of which Howard Spreckles is president, J. J. Hurley is vice-president and general manager, R. C. Callaway is vice-president and A. C. Mohr, secretary,

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
95	Corby	Owner	3000
96	Cuthbert	Owner	3000
97	Eddy	Owner	1800
98	Graf	Erickson	4800
99	Moffat	Owner	1952
100	Ready	Monson	2000
101	Stoneson	Owner	4000
102	Stoneson	Owner	12000
103	Peterson	Owner	16000
104	Meyer	Owner	10000
105	Meyer	Owner	5000
106	Meyer	Owner	5000
107	Petersen	Owner	6000
108	Meyer	Owner	20000
109	Meyer	Owner	4000
110	Levitt	Jorgensen	10000
112	McNabola	Owner	1000
113	Perasso	Owner	4050
114	Simon	Wagner	2200
115	Bjorkman	Owner	7600
116	Pell	De Velbiss	1000
117	Bank of America	Owner	3000
118	Brodie	Schaadt	3500
119	Christensen	Owner	4000
120	Altwater	Owner	20000
121	Costantino	Owner	2500
122	Gilbert	Owner	2000
123	Johnson	Owner	3500
124	Koch	1 Owner	1400
125	Ready	Owner	2500
126	Stoneson	Owner	7000
127	Shell Oil	Owner	2400
128	Ruegg	Owner	8000
129	Boe	Owner	4000
130	Manseau	Owner	4000
131	Mirsky	Standard	3500
132	Fireman's	MacDonald	7000
133	Leregen	Owner	3500

DWELLING
(95) S JUDAH ST. 150 E 14th Ave.; one-story and basement frame dwelling.
Owner & Builder—H. C. Corby, Fairfax, Marin County.
Plans by Owner. \$3000

DWELLING
(96) N KEY 125 E Lane; one-story and basement frame dwelling.
Owner—A. H. Cuthbert, 34 Keystone Way.
Architect—Not Given. \$3000

DWELLING
(97) S LINDEN 137 W Buchanan St.; one-story and basement frame dwelling.
Owner—L. E. Eddy, 436 Lyon St.
Architect—Not Given. \$1800

DWELLING
(98) W 20th AVE. 225 S Lawton; 2-story and basement frame dwelling.
Owner—Mr. and Mrs. O. W. Graf, 324 Connecticut St.
Architect—C. F. Strothoff, 2274 15th Street.
Contractor—H. Erickson, 972 Chenery St. \$4800

REPAIRS
(99) 1505 BRODERICK ST.; repair fire damage.
Owner—G. L. Moffat, 2635 Green St.
Architect—Not Given. \$1953

SHED
(100) SE 18th and Carolina; one-story frame shed.
Owner—Ready Mix Concrete Co., 575 Berry St.
Architect—Not Given.
Contractor—Monson Bros., 475 6th St. \$2060

DWELLING
(101) W CASITAS 316 N Hazelwood; one-story and basement frame dwelling.
Owner and Builder—Stoneson Bros. & Thorinson, 279 Yerba Buena.
Architect—Chas. Strothoff, 2274 15th Street. \$4000

DWELLINGS
(102) S HAZELWOOD 267 E Yerba Buena; three 1-story and basement frame dwellings.
Owner and Builder—Stoneson Bros. & Thorinson, 279 Yerba Buena.
Architect—Chas. Strothoff, 2274 15th Street. \$4000 each

FLATS
(103) S LINCOLN WAY 107 W 2nd Ave.; two 2-story and basement frame (2) flats.
Owner—A. Peterson, 1620 8th Ave.
Plans by Owner. each \$8950

DWELLINGS
(104) S JAUNITA 31 W Lansdale; two 1-story and basement frame dwellings.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Burks, 727 Portola Dr. each \$5000

DWELLING
(105) SE ROCKDALE and Reposa; one-story and basement frame dwelling.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Burks, 727 Portola Dr. \$5000

DWELLING
(106) N MIRALOMA Lot 70 Blk 3011; one-story and basement frame dwelling.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Burks, 727 Portola Dr. \$5000

DWELLING
(107) NE CRESTLAKE DRIVE 580 S Wawona; two-story and basement frame dwelling.
Owner and Builder—H. W. Petersen, 912 Geneva Ave.
Architect—Not Given. \$6000

DWELLINGS
(108) E ROCKDALE 32 S Reposa; five 1-story and basement frame dwellings.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Burks, 727 Portola Dr. each \$4000

DWELLING
(109) S JAUNITA 107 W Lansdale; one-story and basement frame dwelling.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by D. T. Burks, 727 Portola Dr. \$4000

FLATS
(110) W DIVISADERO 75 S Francisco; three 1-story and basement frame flats (2 families).
Owner—L. Levitt, 1235 Francisco St.
Architect—Irvine & Ebbets, Call Bldg.
Contractor—M. J. Jorgensen, 2225 N. Point St. \$10,000

111 Lang Owner 12000
AUTO SALES BLDG.
(111) W WEST PORTAL 350 S Vicente; one-story class C auto sales building.
Owner and Builder—Lang Realty Co., 810 Ulloa St.
Plans by D. S. Adams, 810 Ulloa St. \$12,000

ALTERATIONS
(112) 79 CLIPPER ST.; alterations to raise dwelling and extend front.
Owner—M. McNabola, 79 Clipper St.
Architect—Not Given. \$1000

DWELLING
(113) N AMAZON 75 E Vienna; one-story and basement frame dwelling.
Owner and Builder—J. Perasso, 811 Athens Street.
Architect—Noe Given. \$4000

BUILDING
(114) S YOSEMITE 88 E Mendel; 1-story frame industrial building.
Owner—Simon Mattress Mfg. Co., Yosemite and Mendel Sts.
Plans by W. W. Hanscom, 848 Clayton Street.
Contractor—Geo. Wagner, 181 South Park. \$2200

DWELLINGS
(115) E TARA 178 S Niagara; two two-story and basement frame dwellings.
Owner and Builder—J. Bjorkman, 912 Geneva Avenue.
Architect—Not Given. \$3800 each

REPAIRS
(116) 246 PRAGUE ST.; repair fire damage.
Owner—M. J. Bell, 246 Prague St.
Architect—Not Given.
Contractor—C. D. De Velbiss, 369 Pine Street. \$1000

ALTERATIONS
(117) SE HAIGHT and Clayton Sts.; alterations to bank.
Owner—Bank of America, 550 Montgomery Street.
Architect—H. A. Minton, Bank of America Bldg. \$3000

DWELLING
(118) W 19th AVE. 100 N Quintara; one-story and basement frame dwelling.
Owner—H. S. Brodie, 233 Cortland Avenue.
Architect—Not Given.
Contractor—L. M. Schaadt, 31 Howth Street. \$3500

DWELLINGS
(119) W 25th AVE. 150 S Rivera; three 1-story and basement frame dwellings.

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

Owner—H. Christensen, 1422 27th Ave.
Plans by Owner. \$4000

DWELLINGS
(120) E 38th AVE. 100 S Judah St.;
five 1-story and basement frame
dwellings.

Owner and Builder—W. F. Altvater,
2742 Mission St.
Architect—C. F. Strothoff, 2274 15th
Street. each \$1400

DWELLING
(121) N CHESTNUT 72 W Franklin;
one - story and basement frame
dwelling.

Owner—D. Costantino, 3241 Scott St.
Architect—L. Dallorso, 323 Jansen St.
\$2500

ALTERATIONS
(122) 1656 15th ST.; alterations to
cleaning works.

Owner—R. M. Gilbert, 1660 15th St.
Architect—Not Given. \$2000

DWELLING
(123) W 44th AVE. and Irving St.;
one - story and basement frame
dwelling.

Owner—P. P. Johnson, 2 25 Lincoln
Way.
Architect—Not Given. \$3500

DWELLINGS
(124) W DELANO 529 N Ocean Ave.;
three 1-story and basement frame
dwellings.

Owner and Builder—W. R. Koch, 599
Chenery St. each \$3800

OFFICE
(125) S CAROLINA 250 E 18th Ave.;
one-story frame office.

Owner—Ready-Mix Concrete Co.
Architect—Not Given. \$2500

DWELLINGS
(126) E GENESEE 75 S Mangels; 2
1-story and basement frame dwell-
ings.

Owner and Builder—Stoneson Bros. &
Thorinson, 279 Yerba Buena Ave.
Architect—Not Given. each \$3500

SERVICE STATION
(127) NE EIGHTH and Fulton; one-
story concrete service station and
one-story frame comfort station.

Owner—Shell Oil Co., 100 Bush St.
Plans by Owner. \$2400

DWELLINGS
(128) N VISITACION AVE. 100 W
Desamona; two 1-story and base-
ment frame dwellings.

Owner and Builder—The Ruegg Co.,
369 Pine St. each \$4000

DWELLING
(129) E MIRAMAR 120 N Hallaway;
one - story and basement frame
dwelling.

Owner and Builder—A. M. Boe, 700
Joost Avenue. \$4000

DWELLING
(130) E 28th AVE. 300 N Kirkham;
one-story frame dwelling.

Owner and Builder—E. E. Manseau,
1429 28th Ave. \$4000

DWELLING
(131) SW 27th AVE. and Rivera; one-
story and basement frame dwell-
ing.

Owner—E. Mirsky & Son, 218 Casten-
ada St.
Plans by Builder.
Contractor—Standard Bldg. Co., 2 18
Castenada St. \$3500

ADDITION
(132) E MONTGOMERY N Broad-
way; addition of 1 story to pres-
ent building.

Owner—Fireman's Fund Insurance Co.
Sansome St.

Engineer—Ellison & Russell, 712 Pa-
cific Bldg.

Contractor—MacDonald & Kahn, Fi-
nancial Center Bldg. \$7000

DWELLING
(133) W 40th AVE. 300 S Lincoln
Way; 1-story and basement frame
dwelling.

Owner—J. Leregen, 176 4th St.
Architect—Not Given. \$3500

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
25	Dodge	Lindgren	4371
26	Guillermo	Meinberger	8025
27	War Memorial	Cohn	236200

SERVICE STATION

(25) SW PACIFIC AVE. and Larkin
St. S 27-8 1/2 x W 112; all work on
gasoline service station, rest rooms
and supply room.

Owner—Katherine M. Dodge.
Architect—Not Given.
Contractor—Albin C. Lindgren, 64 Ra-
mona.

Filed Jan. 29, '31. Dated Jan. 26, '31.
Roof sheeting on.....\$1092.75
Brown coat.....1092.75
Completed.....1092.75
Usual 35 days.....1092.75

TOTAL COST, \$4371
Bond, \$2100. Sureties, Chas. Elmer
and Chas. Anderson, Forfeit, \$10.
Limit, 60 days. Plans and Spec. filed.

RESIDENCE

(26) W 27th AVE. 287 1/2 N Lake St.
N 37 1/2 x W 120; sub - contract
work on one-story and basement
frame residence.

Owner—R. Guillermo.
Architect—Not Given.
Contractor—H. S. Meinberger, 343 4th
Street.

Filed Jan. 29, '31. Dated Jan. 22, '31.
1st coat of plaster.....\$2006.25
Completed.....2006.25
Usual 35 days.....2006.25

TOTAL COST, \$3025
Limit, 100 days.

EXCAVATION, ETC.

(27) TWO BLOCKS bounded by Van
Ness Ave., Franklin, McAllister
and Grove Sts.; excavation, con-
crete and cement work for founda-
tions and basement of War Mem-
orial.

Owner—The Board of Trustees of the
War Memorial of San Francisco.
Architect—Y. R. Brown, 251 Kearny
St., and G. A. Lansburgh, 149
Montgomery St.

Contractor—L. J. Cohn, 1 De Haro St.
Filed Feb. 4, '31. Dated Jan. 23, '31.
Tenth of each month.....75%
Usual 35 days.....25%

TOTAL COST, \$236,200
Bond, \$118,100. Sureties, American
Bonding Co. of Baltimore. Limit, 150
days. Plans and Spec. filed.

AGREEMENTS

Agreements to install refrigerating
systems have been filed with the of-
fice of the San Francisco County Re-
corder between the following named
owners and the Norge Cyclics Co.:

H. O. Linderman, 401 Hyde St., 3520;
S California 106 E Parker; SE Par-
ade and California; W 19th 120 N Califor-
nia, total \$3120.

Argonaut Inv. Co., Kearny and
Chestnut Sts., \$510.
L. Daniels, 1929 Divisadero, \$610.
A. P. Levi and C. Bresse, 425 15th
Ave., \$694.

D. Schefski, 1610 Lombard St., \$765.
P. Warden, 700 Parkmass Avenue,
\$1680.

A. J. Arata, 3010 Fulton St., \$1212.

M. J. Jacobs, 1820 Fulton St., \$675.
G. Pouchan, 1920 Pine St., \$900.

B. Goldstein, 1445 Eddy St., \$1140.
S. Herz, 3021 Fulton St., \$1250.
F. G. Darlington, 2855 Polk St., \$11-
095.

P. D. McPartland, 1617 Lombard St.,
\$820.
A. Rosenberg, 250 Page St., \$1350.
J. Levin, NW Lake and 27th Ave.,
\$970.

J. Alpe, 1467 Lombard St., \$650.
H. O. Linderman, E Parker 64 S
California St., \$3120.
E. Barron, 835 Fulton St., \$944.

A. A. Rodgers, 40 Shrader St., \$580.
J. Kingwell, 1945 Washington St.,
\$1000.

E. Franklin, 1126 Bush St., \$100.
C. Schnee, 970 Bay St., \$840.
P. J. Boonstra, 150 Haight St., \$940.
S. Myerson, 2440 Filmore St., \$550.
S. J. Myers, 1750 Pacific, \$992.

L. Daniels, 1929 Divisadero, \$610.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
Feb 2, 1931—LOT 7 BLOCK 1 map Fairs Sub, Holly Park Tract, Edw H Reed to whom it may concern.	February 2, 1931
Feb 2, 1931—S VICENTE 107-6 E 17th Ave E 25 x S 100; S Vicente 82-6 E 17th Ave E 25 x S 100. W P Coles to Self.	February 2, 1931

Feb 2, 1931—NW ELLIS and Taylor
Sts. The Glide Foundation to
Monson Bros. January 31, 1931

Feb 2, 1931—S LINCOLN WAY 92-6
W 42nd Ave W 90 x S 100, N E
Johnson to whom it may concern.

Feb 2, 1931—NW BURROWS 81 SW
Brussels 26x100. H C and E L
Goldstone to whom it may concern.

Jan 29, 1931—SE HOWARD ST and
NE RUSSELL 100 x SE 280, Eng-
Skell Co to Mission Concrete Co.
January 31, 1931

LIENS FILED

San Francisco County

Feb. 3, 1931—S EINE 112-6 W Gough
W 25xS 170. J S and S I Maurer,
\$12; A. Thorsen, \$25.85 vs W C
Boswall and H D Hopper.

Feb. 3, 1931—ALL LOTS 10, 11 AND
12 Ptn Lots 12, 14 and 15, all Lots
17, 18 and 19 Blk 1 P. A. McDon-
ald's Sub., Lots 19 to 23 Blk 13,
West End Map No. 1. A Argenti
and A Tiscornia vs F Murphy, G
and E and G Lagomarsino. \$210

Feb. 2, 1931—LOT 14 BLK 25, R. E.
Homestead Assn. J Johnson vs
Feb. 2, 1931—S FULTON 112-6 East
Oxtavia E 25 x S 120. Antonio Fi-
lippi as W H Gnecco & Co vs R
Paratore, Giaccosa and Pasqualina
Vicenzo \$71.50

Feb. 2, 1931—SE WOOLSEY 90 SW
Somerset SW 60 x SE 100 blk 2,
Paul Tract. Antonio Filippi as W
H Gnecco & Co vs Serge Maharen
\$30

Feb. 2, 1931—E DELANO 50 South
Mada S 20 x E 100. W H Gucco
& Co vs Bianchine. \$95

RELEASE OF LIENS

San Francisco County

Recorded	Amount
Jan 2, 1931—1685 PALOU AVE bet 3rd and Newhall S Palou 100 New- hall 25x100. F. Quairthl vs A and & F Finn and S Rosen. \$3000	
Jan 28, 1931—E THIRD AVE 300 S Cornwall S 25 x E 120. Incandes-	

cont Supply Co vs L H and A M Branch\$118

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
95	Fleming	Owner	3950
96	Johanson	Owner	3500
97	Nelson	Nelson	5000
98	Landon	Fleming	4009
99	U S Govt	Petersen	38490
100	Russell	Owner	5150
101	Hufschmidt	Owner	2740
102	Compton's	Owner	1000
103	Swartout	Owner	5400
104	Berg	Owner	3000
105	Dawson	Owner	2500
106	Pedersen	Owner	3000
107	Parker	Fessenden	3150
108	Stokes	Owner	4500
109	Gould	Owner	3500
110	Chernow	Van Gelder	2000
111	Swoboda	Schneck	2775
112	F P Airdrome	Lindgren	37500
113	Same	Same	37500
114	Rogers	Anderson	4750
115	Daley	Owner	1500
116	Nanscum	Justice	5000
117	Barbagelata	Larmer	3000
118	Griffith	Owner	4250
119	Griffith	Owner	4000
120	Janco	Owner	1500
121	Lagorio	Sullivan	1000
122	Leekins	Owner	4000
123	K of C	Button	1225
124	20th & Broadway	Jensen	4000
125	Fleming	Owner	3950
126	Stiles	Nylander	3000
127	20th & Broadway	Jensen	45000
128	Hell	Owner	2700
129	Goldman	Beckett	4500
130	Meads	Owner	2000

DWELLING
(95) W FOREST HILL AVE. 322 S Tiffin Road, OAKLAND; 1-story 6-room dwelling.
Owner and Builder—John Fleming, 4261 Suter St., Oakland. \$3950
Architect—Not Given.

DWELLING
(96) 3722 ATLAS AVE., OAKLAND; one-story 6-room dwelling.
Owner and Builder—O. W. Johnson, 3917 Atlas Ave., Oakland. \$3800
Architect—Not Given.

APARTMENTS
(97) W BELLEVUE AVE. 375 North Grand Ave., OAKLAND; six-story 77-room concrete apartments.
Owner—A. C. Nelson, 488 35th Street, Oakland.
Architect—C. N. Burrell, Perkins St., Oakland.
Contractor—H. Nelson, 3730 Atlas Avenue, Oakland. \$80,000

DWELLING
(98) W FOREST HILL AVE., 357 S Tiffin Road, OAKLAND; one-story 6-room dwelling.
Owner—Edgar E. Landon, 2921 73rd Ave., Oakland.
Architect—Not Given.
Contractor—John Fleming, 4261 Suter St., Oakland. \$3900

FOUNDATION
(99) 12th, 13th, ALICE and Jackson Sts., OAKLAND; concrete foundation.
Owner—U. S. Government.
Architect—J. A. Wetmore, Treasury Dept., Washington, D. C.
Contractor—Geo. Petersen, 1841 Bancroft Ave., San Leandro. \$38,400

DWELLING
(100) 1079 UNDERHILLS RD., OAKLAND; one-story 6-rm dwelling and 1-story garage.
Owner and Builder—C. A. Russell, 2103 69th Ave., Oakland.
Architect—Not Given. \$5150

RESIDENCE
(101) N. NO. 436 WARD ST., BERKELEY. One-story 5-room 1-family frame residence.
Owner—W. Hufschmidt, 89 Nova Dr., Piedmont.
Architect—E. M. Williamson, 3761 Allendale Ave., Oakland. \$2740

ALTERATIONS
(102) 435 12th ST., OAKLAND; alterations.
Owner and Builder—Gene Compton's, Inc., 1124 Broadway, Oakland.
Architect—Not Given. \$1000

DWELLING
(103) W PROCTOR AVE. 200 S Modoc, OAKLAND; two-story 6-room dwelling.
Owner and Builder—R. J. Swartout, 6038 Monroe Ave., Oakland.
Architect—Not Given. \$5400

DWELLING
(104) E MAGEE AVE. 70 S Wisconsin, OAKLAND; one-story five-room dwelling.
Owner and Builder—A. M. Berg, 3854 Midvale Ave., Oakland.
Architect—Not Given. \$3000

RESIDENCE
(105) NO. 314 PANORAMIC WAY, BERKELEY. One-story 3-room 1-family frame residence.
Owner—J. R. Dawson.
Architect—J. A. Finkinton, 1931 Berryman St., Berkeley. \$2500

DWELLING
(106) NO. 510 CURTIS ST., ALBANY Five-room dwelling.
Owner—T. Pedersen, 2145 Grant St., Berkeley.
Architect—Not Given. \$3000

DWELLING
(107) NO. 938 JACKSON ST., ALBANY. Five-room dwelling.
Owner—B. H. Parker, Adams St., Albany.
Architect—Not Given. 1500
Contractor—C. L. Fessenden, 1500 Oak View Ave., Oakland. \$3450

DWELLING
(108) NO. 1441 PORTLAND AVE., ALBANY. Six-room dwelling.
Owner—F. A. Stokes, 325 Berkeley Park Blvd., Berkeley.
Architect—Not Given. \$4500

DWELLING
(109) NO. 614 CURTIS ST., ALBANY Seven-room dwelling.
Owner—A. E. Gould, 1046 Ramona Ave., Albany.
Architect—None. \$3800

STORE
(110) NO. 1224 SOLANO AVE., ALBANY. Store.
Owner—M. Chernow, 1220 Solano Ave., Albany.
Architect—Not Given.
Contractor—F. Van Gelder, 1716 Delaware St., Berkeley. \$2000

DWELLING
(111) 337 E EIGHTH ST., OAKLAND one-story 4-room dwelling.
Owner—Carrie Swoboda, 736 5th Ave., Oakland.
Architect—Not Given.
Contractor—A. W. Schneck, 3561 Redwood Road, Oakland. \$2775

HANGAR
(112) NO. 2155 WEBSTER ST., ALAMEDA. Steel and galvanized iron airplane hangar.
Owner—S. F. Bay Airdrome, 2155 Webster St., Alameda.
Architect—Owner.

Contractor — Lindgren & Swinerton, 625 Standard Oil Bldg., San Francisco. \$37,500

HANGAR
(113) NO. 2155 WEBSTER ST., ALAMEDA. Steel and galvanized iron airplane hangar.
Owner—S. F. Bay Airdrome, 2155 Webster St., Alameda
Architect—Owner.
Contractor — Lindgren & Swinerton, 625 Standard Oil Bldg., San Francisco. \$37,500

DWELLING
(114) NO. 3219 THOMPSON AVE., ALAMEDA. One-story five-room frame and stucco dwelling.
Owner—Ralph B. Rogers, 3219 Thompson Ave., Alameda.
Architect—Owner.
Contractor—Walter H. Anderson, 1014 Doris Court, Alameda. \$4750

ALTERATIONS
(115) NO. 1207 REGENT ST., ALAMEDA. Alter frame dwelling.
Owner—W. E. Daley, 1251 St. Charles St., Alameda.
Architect—Not Given. \$1500

DWELLING
(116) NO. 1621 HIGH ST., ALAMEDA. One-story 6-room frame and stucco dwelling.
Owner—W. L. Hanscum, Oakland.
Architect—Not Given.
Contractor—N. F. Justice, 973 Pearl St., Alameda. \$5000

GARAGE
(117) S 20th Street 450 W Telegraph Ave., OAKLAND; one-story brick garage.
Owner—F. Barbagelata, 604 42nd St., Oakland.
Architect—Not Given.
Contractor—Edward Larmer, 90 Fairview Ave., Oakland. \$3000

DWELLING
(118) 1914 105th AVE., OAKLAND; one-story 6-room dwelling and 1-story garage.
Owner and Builder—C. W. Griffith, 1427 87th Ave., Oakland.
Architect—Not Given. \$4250

DWELLING
(119) N BEVERLY 41 E 105th AVE., OAKLAND; one-story six-room dwelling.
Owner and Builder—C. W. Griffith, 1427 87th Ave., Oakland.
Architect—Not Given. \$4000

DWELLING & STORE
(120) NE 14th STREET 50 E 101st AVE., OAKLAND; 2-story dwelling and store.
Owner and Builder—V. Janco, 9236 Peach St., Oakland.
Architect—Not Given. \$1500

ALTERATIONS
(121) 5390 SAN PABLO AVE., OAKLAND; alter cleaning works.
Owner—G. Lagorio, 5 9 30 San Pablo Ave., Oakland.
Architect—Not Given.
Contractor—Sullivan & Sullivan, 2653 East Ave., Oakland. \$1000

DWELLING
(122) 2927 SHEFFIELD AVE., OAKLAND; one-story 6-room dwelling.
Owner and Builder—C. W. Leekins, 1650 Hopkins St., Oakland.
Architect—Not Given. \$4000

ALTERATIONS
(123) NO. 1995 UNIVERSITY AVE., BERKELEY. Alter garage.
Owner—Knight of Columbus, 2108 Shattuck Ave., Berkeley.
Architect—Not Given

Contractor—I. W. Button, 247 63rd St., Oakland. \$1625

ALTERATIONS
(124) E TELEGRAPH AVE. 129 N 19th St., OAKLAND; alterations and addition.
Owner—20th and Broadway Realty Co. Oakland.
Architect—A. J. Evers, 525 Market St., San Francisco.
Contractor—G. P. W. Jensen, 320 Market St., San Francisco. \$5000

DWELLING
(125) W ATLAS AVE. 200 S Redwood Road, OAKLAND; one-story 6-room dwelling.
Owner and Builder—Andrew Fleming, 3906 Vale Ave., Oakland.
Architect—Not Given. \$3250

DWELLING
(126) S 108th AVE. 200 W Beverley Ave., OAKLAND; one-story six-room dwelling.
Owner—W. P. Stiles.
Architect—Not Given.
Contractor—Nylander Bros., 633 Montclair Ave., Oakland. \$3000

STORE
(127) NE COR. 19th and Telegraph Ave., OAKLAND; one-story concrete store building.
Owner—20th and Broadway Realty Co. Oakland.
Architect—A. J. Evers, 525 Market St., San Francisco.
Contractor—G. P. W. Jensen, 320 Market St., San Francisco. \$45,000

RESIDENCE
(128) NO. 1780 FRANKLIN ST., BERKELEY, One-story 5-room 1 family frame residence.
Owner—Mrs. Mary Hell, 1734 Delaware St., Berkeley.
Architect—Not Given. \$2700

REPAIRS
(129) 1820 PARK BLVD., OAKLAND fire repairs.
Owner—W. Goldman, San Francisco.
Architect—Not Given.
Contractor—Beckett & Wight, 621 Scenic Ave., Piedmont. \$4500

ALTERATIONS
(130) 920 BROADWAY, OAKLAND; alterations.
Owner and Builder—Meads Co., Inc., 1419 Western States Life Bldg., San Francisco.
Architect—Not Given. \$2000

BUILDING CONTRACTS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
18	Dawson	Pinkerton	2500
19	Health	Whited	9600
20	S P Co	Knapp	
21	De Vorin's	Rich	750
22	Regents	Cork	7175

DWELLING
(18) 314 PANARAMIC WAY, Berkeley; general construction on 3-room and garage stucco dwelling.
Owner—John R. Dawson, 2026 Dohr, Berkeley.
Architect—Not Given.
Contractor—J. A. Pinkerton, 1931 Berryman, Berkeley.
Filed Jan. 30, '31. Dated Jan. 28, '31.
When frame is up.....\$625
When brown coated.....625
When completed.....625
Usual 35 days.....625
TOTAL COST, \$2500
Limit, 90 days. Plans and Spec. filed.

BUILDING

(19) LOT 18, Wicks Addn., San Leandro; general construction on one-story frame and stucco building.
Owner—Trustees of the San Leandro High Center.
Architect—Jay I. Narbett, 474 31st St., Richmond.
Contractor—W. H. Whited, 125 Sunny-side, Oakland.
Filed Jan. 30, '31. Dated Jan. 27, '31.
When frame is up.....\$2400
1st coat of plaster.....2400
When completed.....2400
Usual 35 days.....2400
TOTAL COST, \$9600
Bond, \$9600. Sureties, R. W. Shannon and Louis Hecker. Limit, three months. Plans and Spec. filed.

SUBWAY
(20) FOOT OF SEVENTH STREET, Oakland; construction of subway.
Owner—Southern Pacific Company.
Architect—S. P. Engineering Dept.
Contractor—John F. Knapp, Financial Center Bldg., Oakland.
Filed Feb. 2, '31. Dated Jan. 30, '31.
Close of each month.....75%
Usual 35 days.....25%
Prices as per list attached to contract.
Bond, \$123,462. Sureties, U. S. Guarantee Co. Limit, 175 days. Plans and Spec. filed.

ALTERATIONS & ADDITIONS
(21) E WASHINGTON ST. 75 ft S of 10th St., Oakland; alterations and additions to store building.
Owner—De Vorin's Inc., Oakland.
Architect—Not Given.
Contractor—Jas. L. Rich, 1075 Standard St., Oakland.
Filed Feb. 4, '31. Dated Feb. 2, '31.
When brick work and roof is done.....\$380
When completed.....500
Usual 35 days.....200
TOTAL COST, \$780
Bond, \$400. Sureties, Pacific Indemnity Co. Limit, Feb. 16, 1931. Plans filed.

HEAT INSULATION, ETC.
(22) CAMPUS of the University of California, Berkeley; installing of heat insulation and accessories for refrigerating and air conditioning rooms in laboratory building.
Owner—The Regents of the University of California, Berkeley.
Architect—George W. Kelham, 315 Montgomery St., San Francisco.
Contractor—Cork Insulation Co., 354 Pine St., San Francisco.
Filed Feb. 3, '31. Dated Jan. 27, '31.
1st of each month.....75%
Usual 35 days.....25%
TOTAL COST, \$1775
Bond: Labor and Materials, \$4,000; Performance, \$4000. Sureties, Hartford Accident and Indemnity Co. Forfeit, \$15 per day. Limit, 90 days. Plans and Spec. filed.

COMPLETION NOTES

ALAMEDA COUNTY

Recorded Accepted
Jan 30, 1931—E 25th 190 W Diamond, M. S. Wm & M H Shaughnessy to Clancy Bros.....Jan 28, 1931
Jan 30, 1931—PELL and Baker Sts. Southern Pacific Co to Spencer Elevator Co.....January 29, 1931
Jan 30, 1931—2965 MISSION Street, Wm H Grahn to whom it may concern.....January 29, 1931
Jan 29 1931—330-334-338 FIFTH Ave. J C Connor to I W Coburn.....January 29, 1931
Jan 29, 1931—N 28th 75 E Florida 25x100. J D Sabatelli to F Amatore.....January 27, 1931
Jan 29, 1931—SW CARROLL and Newhall W 201-8 x S 298-1. Truscon Steel Co to MacDonald and

Kahn.....January 10, 1931
Jan 28, 1931—LOT 19 BLK L map addis to Castro St Addn and Glen Park Terrace. Marith I Boe to whom it may concern.....Jan 26, '31
Jan 28, 1931—W CHESTER 14 S from point formed by inter West Chester and 14th line 8 Ocean View Park W 100-35 m or I E 100-34 S 29. R Emark to whom it may concern.....January 27, 1931
Jan 28, 1931—W 12th Ave 100 N Taraval St 31-3x120. J Mager to whom it may concern.....January 27, 1931
Jan 28, 1931—E 22nd Ave 75 South Quintara S 75 x E 120. L and A Costello to whom it may concern.....January 28, 1931
Feb 3, 1931—S ALLSTON WAY 90 ft W of Fulton St, Berkeley. Alice H Roberts to Beckett & Wight.....January 27, 1931
Feb 2, 1931—721 POSION AVE. Albany. Paul C Groce to whom it may concern.....January 31, 1931
Feb 2, 1931—861 CONTRA COSTA Ave, Berkeley. Charles H Kinney to whom it may concern.....February 2, 1931
Feb 2, 1931—1006 EUCLID AVENUE Berkeley. Edward Brewer to Self.....January 30, 1931
Feb 2, 1931—2112 57th AVE. Oakland. Eleonora Olson to Martin Benson.....January 29, 1931
Feb 2, 1931—5631 COLLEGE AVE, Oakland. Katsuki Haruharu Theatre Co to Doyle Sheet Metal Works.....January 20, 1931
Jan 30, 1931—5558 GLENPROCK Dr, Oakland. Sam Steindel to Self.....January 30, 1931
Jan 27, 1931—SW SEVENTH and Washington Sts, Oakland. P J Nicholas, Agnes A Moffitt, Marie B Kammerer and Florence M Miller to F C Stolte.....Jan 29, 1931
Jan 30, 1931—LOTS 7 and 8, Claremont Heights Subdiv No 1, Oakland. Marion C Smith to J H Linfoot.....January 29, 1931
Jan 30, 1931—LOT 7 BLK I, Cherry City Tract, San Leandro. Stanislaw Roznowski.....January 29, 1931
Jan 28, 1931—PINE ST, Ball & White, Berkeley. W J Hotchkiss to Emil Person.....Jan 16, 1931
Jan 27, 1931—LOT 26, A Lane in Spain, Oakland. Fred T Dooley to whom it may concern.....January 26, 1931

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
Jan 31, 1931—W 18th Ave 25 South Kirkham St S 25 x W 95; S Kirkham St W 18th Ave S 25 x W 95. F J Shannon vs M D and M A Hardiman.....\$450	
Jan 30, 1931—S UNION ST, and E Van Ness Ave S 35 x E 125. I W Coburn vs L Greenwald, A Klein, A and C A Silverstone also known as A and C A Silverstone.....\$100.67	
Jan 30, 1931—E NINTH AVE 125 S Kirkham S 25 x E 120. Star Concrete Co vs F T Hicks and C Andersen.....\$136	
Jan 30, 1931—E HAMILTON ST 200 S Felton St S 25 x E 120. Christenson Lumber Co vs Wm F Bernell.....\$179.02	
Jan 30, 1931—LOT 8 map Sub 6 and 7 Hardy Tract, Berkeley. Tilden Lumber and Mill Co vs Berkeley Indoor Golf Course, Ltd. C E Radson, H T Fox, S Straus, C H and George Fox.....\$66.92	
Jan 28, 1931—LOT 22 BLK C, Claremont Pines, Oakland. Maxwell Hdve Co vs J M Walker.....\$329.64	
Jan 28, 1931—NE TAYLOR AVE and Caroline St, Alameda. M. M. M. bank vs Aileen Marie Roberts.....\$2545	

RELEASE OF LIENS

Alameda County

Recorded Amount

Jan 30, 1931—647 SAN LOUIS RID, Berkeley, A H Hassler to David and Rania Kestl.....\$211
 Jan 30, 1931—INTER NW BRUCE ST and NE East 32nd St, Oakland, M C Henry, \$155; Marcus & Merckel, Ltd, \$65.95; E W Angelman, \$30; Markis Hardware Co, \$31.35, to G W Steffen.....

BUILDING PERMITS

(San Anselmo, Marin County)

SAN ANSELMO, Marin Co., Cal.—Building permits involving an expenditure of \$12,500 were issued during the month of January by Charles H. Cartwright, building inspector, as follows:

H. Squire. Dwelling. Portion Lot 1 Blk. 6, Sub. 1, Hawthorne Hills, Hawthorne Ave. Est. cost, \$700.
 E. Lakeann. Dwelling. Rutherford Ave., Hawthorne Hills. Est. cost, \$3000.
 B. L. White. Stores. Portion of Lot 45 Bush Tract, on San Anselmo Short Ranch Tract, Sub. 1, No. 242 Butterfield Road. Est. cost, \$2000.
 H. M. Hansen. Addition. Aheha Vista Tract. Est. cost, \$300.

BUILDING CONTRACTS

SAN MATEO COUNTY

STEEL GIRDER
COLMA. All work for placing steel girders, etc.
 Owner—Southern Pacific Company.
 Architect—Not Given.
 Contractor—Steel Erector Consolidated, Ltd.
 Filed Jan. 21, '31. Dated Jan. 22, '31.
 As work progresses..... 75%
 Usual 35 days..... 25%
TOTAL COST, \$4850
Bond, \$4850. Sureties, Maryland Casualty Co. Limit, 20 calendar days.
 Forfeit, none. Plans and specifications filed.

DWELLING
SOUTH LINE WHEPPLE ROAD, San Mateo. All work for 5-room and basement dwelling.
 Owner—Bertrand Minat, Box 42, Route 2, Redwood City.
 Architect—Moncrieff Bros.
 Contractor—George Moncrieff, 1217 Lexington St., Redwood City.
 Filed Jan. 27, '31. Dated Jan. 21, '31.
 Work Started.....\$1125.00
 Roof on..... 1093.75
 Plastered..... 1093.75
 Completed..... 1093.75
 Usual 35 days.....406.25
TOTAL COST, \$5500.00
Bond, none. Limit, 90 working days.
 Forfeit, plans and specifications, none.

RESIDENCE
LOT 73 BLK 48, Lyon & Hoag Sub., San Mateo. All work for one-story and basement frame residence and separate garage.
 Owner—Norman James Robertson, 117 Park St., Burlingame.
 Architect—Not Given.
 Contractor—Ruben A. White, 771 Edgewood Road, Redwood City.
 Filed Jan. 26, '31. Dated Jan. 26, '31.
 Roof on.....\$1315
 Plastered..... 1315
 Completed..... 1315
 Usual 35 days..... 1315
TOTAL COST, \$5260

Bond, none. Limit, 90 working days. Forfeit, plans and specifications, none.

BUILDING PERMITS

SAN MATEO

SCHOOL, \$3200; Lot 7 Blk P, B St., San Mateo; owner and contractor, Lengfield & Glund, 145 El Camino Real, San Mateo.
RESIDENCE, \$10,000; Lot 1 Blk 6, No. 365 Virginia St., San Mateo; owner and contractor, J. C. Wells, Hawson Ave., San Mateo.
BUNGALOW, \$6000; Lot 15 Blk 1, No. 159 16th Ave., San Mateo; owner, John L. Leachnor, 117 Anita Rd., Burlingame; contractor, Wallace Waterhouse, 1235 Shafter St., San Mateo.
BUNGALOW, \$4500; Lot 5, No. 2659 Garfield Ave., San Mateo; owner and contractor, Albert Wolf

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
 Jan. 26, 1931—LOT 5 BLK 14, Baywood. D Hauke to whom it may concern.....Jan. 22, 1931
 Jan. 26, 1931—LOTS 11, 12, 13, 17, and 18, Portola Terrace. Louis Gambetta to R. Wolf.....Jan. 23, 1931
 Jan. 27, 1931—LOTS 9 AND 10 BLK 1, Oakwood Tract, San Mateo. Helen Wycoff to whom it may concern.....Jan. 26, 1931
 Jan. 27, 1931—PART LOT 12, Freemont Acres. Gonzalo Silvestre to whom it may concern.....Jan. 19, 1931
 Jan. 27, 1931—N HILLSIDE DRIVE, Burlingame. Thomas N Gesso to whom it may concern.....Jan. 24, 1931
 Jan. 28, 1931—PART LOTS 16 AND 19 Blk 1, Lomita Park. Lotoseca Binet to whom it may concern.....Jan. 26, 1931
 Jan. 28, 1931—LOT 9A, Hillsborough Oaks. Eugene M Juda et al to Charles Hammer.....Jan. 28, 1931
 Jan. 28, 1931—THROUGH SOUTH San Francisco. State of California to Basch Bros.....Jan. 22, 1931
 Jan. 28, 1931—LOTS 31 AND 32 BLK 12, Sequoia Tract. Freda Hirsch to whom it may concern.....Jan. 27, 1931
 Jan. 29, 1931—LOT 1 BLK 19, San Carlos California Mutual Bldg & Loan Assn to Thomas Cuthbertson.....Jan. 26, 1931
 Feb 3, 1931—PART LOT 28 BLK 31 White Oaks. Carl Pries to whom it may concern..... February 2, 1931
 Feb 3, 1931—PART LOT 9, Corbett Sub. D F Valentine to whom it may concern..... February 3, 1931
 Feb 3, 1931—LOT 6 BLK D, Mission St Tract. Harry Shapiro to Self..... February 2, 1931
 Feb 3, 1931—LOT 284, San Mateo Park. Allan E Scroell et al to Self..... January 29, 1931

LIENS FILED

SAN FRANCISCO COUNTY

Recorded Amount
 Jan. 26, 1931—ABOUT PALOMET Park. H F Coykendall vs Amada Thial.....\$4619.54
 Jan. 26, 1931—LOT 21-A BLK 26, Lyon & Hoag Sub., Burlingame, San Mateo Feed & Fuel Co vs James W Blythe et al.....\$37.75
 Jan. 27, 1931—LOTS 27 AND 28 BLK 12, Central Park. Redwood City Hardware Co vs Arthur Newman et al.....\$46.30
 Jan. 27, 1931—LOTS 1 AND 2 BLK 20, Huntington Park. John Pellegrini alias vs Charles Chappa.....\$263
 Jan. 28, 1931—LOT 19 BLK 60, Belmonte. A Haseltine vs Clara R Roach et al.....\$28
 Jan. 29, 1931—LOT 13 BLK 60, Belmonte. Merner Lumber Co vs Clara R Roach et al.....\$74.83
 Jan. 29, 1931—LOT 2 BLK 15, Bayview Heights. United States Metal Products Co vs Martin Peterson.....\$225
 Jan. 29, 1931—LOT 2 BLK 15, Bayview Heights. Soule Steel Co vs Martin Peterson.....\$234

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded Amount
 Jan. 26, 1931—LOT 5 BLK 18, Lomita Park. Albert Granger and Colma Mill & Lumbr Co alias to whom it may concern.....
 Jan. 29, 1931—LOCATION NOT Given. San Mateo Planning Mill Co to Joseph Gerardo et al.....

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$4250; No. 246 Dana St., Palo Alto; owner, Eric J. Huerchlin.
GREENHOUSE, \$1500; No. 1710 Bryant St., Palo Alto; owner, E. J. McCutcheon, Premises; contractor, F. W. Fox, 1101 Waverly St., Palo Alto.

BUILDING PERMITS

SAN JOSE

RESIDENCE, 5-room frame, \$5000; Riverside St. near Bird, San Jose; owner, J. Sabatte, 172 Santa Teresi; architect and contractor, Gibson Wheeler Co, 217 Beans Bldg., San Jose.
RESIDENCE, 4-room, frame, \$1250; Twentieth St. near Washington, San Jose; owner, Lenna Derrick, 165 Washington St., San Jose.
SERVICE station, brick, \$1250; Santa Clara and Ninth Sts., San Jose; owner, T. Sullivan, 356 N-Second St., San Jose; contractor, Kelly

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
 490 GEARY STREET

Phone FRanklin 9400 San Francisco

Bros., 648 Almaden St., San Jose.
 ADD to frame business building, \$1600
 No. 852 E-Santa Clara St., San
 Jose; owner, Marshall Bryant, 852
 E-Santa Clara St., San Jose.
 RESIDENCE, 5-room frame, \$3000;
 Fourth St. near Mission, San Jose
 owner, T. McKay, 176 Mission St.,
 San Jose.
 SUBWAY, concrete, \$140,000; Park
 Ave and S. P. R. R., San Jose;
 owner, Southern Pacific Co.; archi-
 tect, Company draftsman; con-
 tractor, San Jose Paving Co., Du-
 pont and San Carlos Sts., San
 Jose.

BUILDING PERMITS

BURLINGAME

RESIDENCE, \$6400; Lot 7 Blk 11,
 B. H. Castillo, Burlingame; owner
 and contractor, Newell F Stearns
 1568 Cortez Ave., Burlingame.
 STORES and offices, Class C, \$18,000;
 Lot 1 Blk 17, B. G. Broadway,
 Burlingame; owner, Leo A. Es-
 closes, 5486 Mission St., San Fran-
 cisco.
 RESIDENCE, \$10,000; Lot 1 Blk 4, No.
 4 Willow Road, Burlingame; own-
 er, Erna and Wade Macomber,
 1300 Castillo Ave., Burlingame;
 contractor, H. T. Coykendall.
 RESIDENCE, \$7000; Lot 33 Blk 5-E,
 No. 4, Vancouver St., Burlingame;
 owner and contractor, P. J. Mora-
 han, 2905 Adeline Drive, Burling-
 ame.
 BUNGALOW, \$5000; Lot 13 Blk 48, L.
 H. Peninsula, Burlingame; owner,
 U. P. Robertson; contractor, A.
 A. White, 771 Edgewood Rd, San
 Mateo.
 BUNGALOWS (2) \$4000 each; Lots 22,
 23 and 24, L. H. Peninsula; owner,
 D. Houle, 162 Grand St., Redwood
 City; contractor, W. Kopplen.

BUILDING CONTRACTS

MARIN COUNTY

RESIDENCE
 SAN ANSELMO. Carpenter work,
 lathing and plastering, plumbing,
 painting, electrical work, etc., for
 residence.
 Owner—Patrick Tierney, San Fran-
 cisco.
 Architect—C. M. Baker, 550 Mont-
 gomery St., San Francisco.
 Contractor—Patrick Phelan, 646 20th
 Ave., San Francisco.
 Filed Jan. 23, '31. Dated Jan. 24, '31.
 Frame up \$2375
 Brown coated 2375
 When completed 2375
 Usual 35 days 2375
 TOTAL COST, \$9500
 Bond, none. Limit, 90 days. Forfeit,
 none. Plans and specifications filed.

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
 Jan. 30, 1931—WINSHIP PARK,
 Ross. Alexander E Richards to
 Alex E Richards.....Jan. 30, 1931
 Feb. 3, 1931—SAUSALITO. Andrew
 Andersen to whom it may con-
 cern Feb. 3, 1931
 Jan. 22, 1931—FAIRFAX. Roman
 Catholic Archbishop of San Fran-
 cisco to H Glynn.....Jan. 18, 1931

LIENS FILED

MARIN COUNTY

Recorded Accepted
 Jan. 26, 1931—BELVEDERE. D A

McLean vs Elizabeth M Cook.....
 \$2377.11
 Jan. 28, 1931 — SAN ANSELMO.
 George Wolfe vs C A Service and
 Harold Sullivan.....\$54
 Jan. 28, 1931—SAN ANSELMO. Ge-
 Wolfe vs C A Service and Harold
 Squire\$27

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 Jan. 24, 1931—NEVADA DOCK.
 Southern Pacific Co to Hutchinson
 Co. (pave road crossing) Jan. 15, '31
 Jan. 24, 1931—PTN LOT 13 BLK 2.
 Map of Amended Map of Block 3,
 Malthys' High School Tract Addi-
 tion to Concord. A G Quince to
 whom it may concern. Jan. 22, 1931
 Jan. 24, 1931 — PTN LOT 9, Enes
 Ambrose Sub. First Unit. William
 M Williams to George Z Smith.....
 Jan. 24, 1931
 Jan. 29, 1931—LOT 33 and N ½ Lot
 32 Blk 35, North Berkeley Ter-
 race, Richmond. Henry Fred Block
 to Henry Fred Block.....Jan. 24, 1931
 Jan. 29, 1931—LOT 21 and S ½ Lot
 32 Blk 35, North Berkeley Ter-
 race, Richmond. Henry Fred Block
 to Henry Fred Block Jan. 24, 1931
 Jan. 31, 1931—RANCHO MONTE DEL
 Diablo (two tracts of land). Tillie
 Piastro to whom it may concern.....
 Jan. 30, 1931
 Jan. 31, 1931—LOT 24 BLK 104, West
 Side Addition No. 1, Pittsburg.
 Tom Di Maglio to Vincent G
 Sliino Jan. 29, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 Jan. 24, 1931—LOTS 4 AND 5 BLK
 152, Castro St. Extension Tract,
 Martinez. H E Douglas vs Valine
 and Lawrence and Julio Bartol-
 mel\$216
 Jan. 25, 1931—LOTS 4 AND 5 BLK
 152, Town of Martinez. A Pisto-
 chini Bros vs Valine, Lawrence &
 Julio Bartolmel\$121
 Jan. 31, 1931—W ½ LOT 1 BLK 33,
 Boulevard Gardens Tract No. 1.
 Tilden Lumber Co vs E E and
 Bessie C Rose\$41.04
 Jan. 31, 1931—LOTS 12 AND 13 BLK
 5, Grand View Terrace. Tilden
 Lumber Co vs E E and Bessie C
 Rose\$267.78

RELEASE OF LIENS

CONTRA COSTA COUNTY

Recorded Amount
 Jan. 26, 1931—LOT 4 BLK 323, Of-
 ficial City of Martinez. Martinez
 Sheet Metal Works to Wallace
 Snelgrove and E E Chneys\$120
 Jan. 26, 1931—PTN LOT 8 BLK 2,
 Pittsburg Home Acres. H A Fisch
 to C M Brown and Charles Rich-
 ner\$204
 Jan. 31, 1931—LOT 10 BLK 5, Greene
 Sub. of Ptn of Wills Addition, Antioch.
 H C Tassell to A Erickson\$57
 Jan. 31, 1931—LOT 10 BLK 5, Greene
 Sub. of Ptn of Wills Addition, Antioch.
 Antioch Lumber Co to A Erick-
 son\$1106.19

BUILDING PERMITS

STOCKTON

RESIDENCE and garage, \$5000; No.

136 Euclid Ave., Stockton; owner,
 Clarence G. Dow, 621 Bedford Rd.,
 Stockton; contractor, S. C. Giles,
 121 Knowles Way, Stockton.
 RESIDENCE and garage, \$4800; No.
 423 Regent St., Stockton; owner,
 S. C. Giles, 121 Knowles Way,
 Stockton.
 RESIDENCE and garage, \$5000; No.
 120 Stadium Drive, Stockton; own-
 er, L. A. Randolph, 100 Knowles
 Way, Stockton; contractor, Ran-
 dolph & West, 100 Knowles Way,
 Stockton.
 ADDITION to bakery, \$18,000; No.
 318 E-Fremont St., Stockton;
 owner, Otto Kern, Premises; con-
 tractor, L. S. Peletz, 1660 W-
 Acacia Ave., Stockton.
 REMODEL store building, \$2700; No.
 148 E-Miner Ave., Stockton; own-
 er, Associated Oil Co., Premises;
 contractor, J. A. Allen, 625 E-
 Market St., Stockton.
 REMODEL dwelling, \$1000; No. 542 E.
 Cleveland St., Stockton; owner, J.
 F. Johnson, Premises; contractor,
 Ecker & Stelgmer.

BUILDING CONTRACTS

MONTEREY COUNTY

COTTAGE
 CARMEL HIGHLANDS. Carmel. All
 work for stucco cottage.
 Owner—Mr. and Mrs. Paul Dougherty,
 Carmel Highlands, Carmel.
 Architect—Guy Koopp, Carmel.
 Contractor—Dowsett-Ruhl Co., Carmel
 Filed Jan. 27, '31. Dated Jan. 22, '31.
 Roof on 25%
 Plaster and stucco completed 25%
 Completed and accepted 25%
 Usual 35 days 25%
 TOTAL COST, \$14,266
 Bond, none. Limit, 90 working days.
 Forfeit, none. Plans and specifica-
 tions filed.
 ADDITION
 MARKET ST., Salinas. All work for
 addition and alterations to shoe
 store.
 Owner—Asa Iwashige, Salinas.
 Architect—A. W. Story, Pajaro Valley
 Bank Bldg., Watsonville.
 Contractor—Fred McCravy, Monterey
 Filed Jan 26, '31. Dated Jan. 24, '31
 As work progresses 25%
 Usual 35 days Balance
 TOTAL COST, \$9000
 Bond, \$9000. Surety, Columbia Casu-
 alty Co. Limit, 90 working days
 Forfeit, none. Plans and specification
 filed.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
 Jan. 26, 1931—LOT 6 BLK 67 Block
 Eock City of Monterey. John
 Gardis to E P Newman and G E
 Halsted.....Jan. 24, 1931
 Jan. 25, 1931—LOTS K AND L BLK
 D, Sherwood & Hellman's Map of
 Salinas City. A E & Annie Worth
 to E F Reese.....Jan. 26, 1931
 Jan. 28, 1931—LOT 15 BLK 9, Map
 No. 2, Del Monte Heights, Mon-
 terey. E Battersby to Carl Trip-
 pellJan. 27, 1931
 Jan. 29, 1931—LOTS 10 AND 12 BLK
 27, Map of East Monterey. J and
 Agnes Gonzales to Ben Felz.....
 Jan. 24, 1931
 Jan. 29, 1931—LOTS 5 AND 7 BLK
 24 Map of Carmel City, Monterey
 County. A and Marguerite Mas to
 Geo M Whitcomb.....Jan. 28, 1931
 Jan. 29, 1931—LOT 4 BLK 23, Monte

Regio No 1, Monterey. James Grahame Durling to W C Mann
 Jan. 29, 1931—LOT 128 AND 129
 Jan. 29, 1931—LOT 128 AND 129, Map of Spring's Second Addition to Salinas City. Tom W Bissett to whom it may concern Jan. 29, 1931
 Jan. 29, 1931—LOT 128 AND 129, Lot 126, Map of Grey Eagle Terrace and Abbie S Pedersen to James W Youngman Jan. 29, 1931

LIENS FILED

MONTEREY COUNTY

Recorded Amount
 Jan. 28, 1931—LOTS 7 AND 8 BLK 4, Little's Survey of New Monterey. Roy M Wright vs Edith Guerin and International Business Corporation \$172.90
 Jan. 28, 1931—LOTS 7 AND 8 BLK 4, Little's Survey of New Monterey. M J Murphy Inc vs Edith Guerin and International Business Corporation \$218.85

BUILDING CONTRACTS

SACRAMENTO COUNTY

LOFT
 N 60 FEET LOT 10, I, J, 12TH AND 13th Sts., Sacramento. Second story left.
 Owner—V. S. Co., 809 J St., Sacramento.
 Architect—Not Given.
 Contractor—Campbell Constr. Co., 800 R St., Sacramento.
 Filed Jan. 29, '31. Dated Jan. 27, '31.
 TOTAL COST, \$7512

INSTALL PANEL AND GLASS PARTITIONS, tile floor in vestibule at entrance on above.

Owner—California National Corp.
 Architect—Not Given.
 Contractor—Campbell Constr. Co., 800 R St., Sacramento.
 Filed Jan. 29, '31. Dated Jan. 27, '31.
 TOTAL COST, \$3500

BUILDING PERMITS

SACRAMENTO

RESIDENCE, 5-room and garage, \$4850; No. 2727 Land Park Drive, Sacramento; owner, and contractor, Geo W Lawrence, 4948 10th Ave., Sacramento.
 RESIDENCE, 5-room & garage, \$4000; No. 532 29th St., Sacramento; owner, Chas. Miller, 2331 11th St., Sacramento; contractor, Chas. Vanina, 2022 M St., Sacramento.
 GENERAL repairs, \$1975; No. 1603 O St., Sacramento; owner, Mary Jones, 1605 O St., Sacramento; contractor, C. J. Hopkinson, 1810 28th St., Sacramento.
 SHOP, tile, \$7512; No. 917 12th St., Sacramento; owner, V. S. Co., 6 McClatchy Realty Co.; contractor, Campbell Constr. Co., 800 R St., Sacramento.
 RESIDENCE and garage, \$5000; No. 1916 Bedwell Way, Sacramento; owner, Jos. Edehoffer, 3030 17th St., Sacramento.
 ICE house, \$46,000; Ninth Ave., bet. 21st and 24th Sts., Sacramento; owner, Consumers Ice Co., 94th and C Sts., Sacramento
 GENERAL repairs, \$3500; No. 926 J St., Sacramento; owner and contractor, California State Life Bldg. Premises.

LIENS FILED

SACRAMENTO COUNTY

Recorded Amount
 Jan. 28, 1931—W 1/2 LOT 3, H, I, 17th and 18th Sts. known as 1716 H St., Sacramento. H C Busby vs Alva Archer and Noma K Browning \$293+costs
 Jan. 30, 1931—LOT 122, McKinley Blvd. Tract No. 2, Sacramento. Gear Flooring Co, Inc vs Wm T Martin and Lou S Korus \$61
 Jan. 30, 1931—DEL PASO BLVD & Country Club. General Supply Co vs R W Bird; J P Yost and North Sacramento Land Co. \$538.34

BUILDING PERMITS

FRESNO

DWELLING and garage, \$4450; No. 1376 Safford St., Fresno; owner, Taylor & Wheeler, Inc, Power Co. Bldg., Fresno.
 DWELLING and garage, \$3000; No. 1368 Safford St., Fresno; owner, A. R. Eklund, 1322 Andrews St., Fresno.
 ALTERATIONS and additions, \$1000; No. 310 Broadway, Fresno; owner, I. O. O. F. Hall, Premises; contractor, E. J. Heffner, 252 N-Broadway, Fresno
 DWELLING and garage, \$5500; No. 1026 Poplar Ave., Fresno; owner, R. E. Dunkle, 87 Olive St., Fresno contractor, F. J. Hunt, 1033 Elizabeth St., Fresno.
 DWELLING, \$1800; No. 2122 N-Van Ness Ave., Fresno; owner, A. Wellheimer; contractor, A. F. Lambert, 1576 Poplar St., Fresno
 MARKET, \$5436; No. 1946 G St., Fresno; owner, Produce & Growers of Central Calif.; contractor, C. J. McIntyre, 774 Elizabeth St., Fresno.
 MARKET, \$2000; No. 1606 Eldorado St., Fresno; owner, Produce & Growers of Central Calif.; contractor, C. J. McIntyre, 774 Elizabeth St., Fresno.
 SERVICE station, \$2950; NE Mariposa and Divisadero Sts., Fresno; owner, R. Done, 317 Glenn St., Fresno; contractor, J. T. Cowan, 750 Elizabeth St., Fresno.
 RESIDENCE and garage, \$4000; No. 650 Vassar Ave., Fresno; owner and Carl Gustafson, 1602 Poplar Ave., Fresno.
 DWELLING and garage, \$4750; No. 1286 Harrison Ave., Fresno; owner and contractor, Taylor-Wheeler Inc., Power Co. Bldg., Fresno.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 Jan. 26, 1931—LOT 26 Blackstone Villa, Fresno Ned M Hartman to whom it may concern Jan. 21, 1931
 Jan. 30, 1931—LOTS 3 TO 6 BLK 4, Esmeralda Heights, Fresno. D D Simms to whom it may concern Jan. 27, 1931
 Jan. 30, 1931—LOT 70, F, G, F, G, Sub No 1, Fresno. Ray Barnard to whom it may concern Jan. 28, 1931
 Jan. 30, 1931—LOTS 25 AND 26, Fairland Addition, Taylor-Wheeler Inc to whom it may concern Jan. 29, 1931
 Jan. 31, 1931—LOTS 9 TO 16 BLK 155, Fresno. United Grocers Inc to Fisher and H W McNulty Jan. 24, 1931

Jan. 31, 1931—LOTS 5 AND 6 BLK 25, Sierra Vista Addition David Scheidt to whom it may concern Jan. 30, 1931
 Jan. 31, 1931—LOT 5 BLK 60, Sierra Vista Addition No. 3. Ilay G Andersen to whom it may concern Jan. 30, 1931
 Jan. 27, 1931—LOTS 16 TO 19 BLK 9, Lisenley Terrace, Fresno. Dwight W Doss to whom it may concern January 22, 1931

LIENS FILED

FRESNO COUNTY

Recorded Amount
 Jan. 30, 1931—PART LOT 9, Sallinger Terrace. Guilbert Wholesale Electric Co vs Guido Giometti et al \$1446

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on February 25, 1931, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highways as follows: Plumas County, between Paxton and Keddie (II-Flu-21-B), about seven-tenths (0.7 mile in length to be graded.

Proposal forms will be issued to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc. The Department of Public Works reserves the right to reject any or all

bids or to accept the bid deemed for the best interests of the State.
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS.
C. H. PURCELL,
 State Highway Engineer.
 Dated January 28, 1931.

February 5, 1931
NOTICE TO CONTRACTORS

General, Electric, Plumbing and Heating Work
Pacific Colony

SEALED BIDS will be received by Geo. B. McDougall, State Architect, Public Works Building, 11th and P Streets, Sacramento, California, up to 2 o'clock P. M., Tuesday, March 3, 1931 said bids thereafter on said day to be publicly opened and read for the erection and completion of two buildings, namely, Employees' Quarters and Garages, Pacific Colony, Spadra, California, in accordance with plans and specifications therefor.

The Employees' Quarters building is two stories with concrete walls and wood frame interior construction and tile roof. The total floor area is approximately 8600 square feet.

The Garage is a building of 30 single-car compartments with concrete walls and floor and composition roof. The area is approximately 6000 square feet.

Separate bids will be entertained for the following segregate parts of the work and combinations thereof:

1. General Work, embracing all branches of the construction other than Plumbing, Heating and Electrical.
2. Electrical Work.
3. Plumbing and Heating Work.
4. Complete Mechanical, including Plumbing, Heating and Electrical Work.

Contractors must state clearly in their application the particular segregation of work that they desire plans for.

Plans and specifications are on file for examination in the office of the Division of Architecture, Public Works Bldg., Sacramento and also at Rm. 1025 Associated Realty Building, Los Angeles, and at the principal California Cities Builders' Exchange Offices.

Plans, specifications, and proposal forms may be secured by licensed Contractors who have qualified or who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

Bids will not be accepted from a Contractor to whom a proposal form has not been issued and all bids must be on proposal forms supplied by the State.

Requests for plans shall be accompanied by a deposit of twenty-five (\$25.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition, at Sacramento Office of the Division, within 30 days after opening bids, otherwise it will be forfeited to the State.

All bids must be filed at the office of the State Architect on or before the time heretofore stated and in accordance with the "Rules for Bidding" accompanying the proposal form.

No bid will be considered unless cash, a bidder's bond made payable to the State of California, or a certified check made payable to the "State Engineer, Department of Public Works," in the sum of at least ten per centum (10%) of the amount of the bid is enclosed with the bid.

The Division of Architecture, Department of Public Works, reserves

the right to reject any or all bids and to waive any informality in any bid received.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
GEO. B. McDOUGALL,
 State Architect.
W. E. GARRISON,
 Director of Public Works.

February 5, 1931
NOTICE TO CONTRACTORS

General, Electric and Plumbing Work
State Agricultural Park

SEALED BIDS will be received by Geo. B. McDougall, State Architect, Public Works Building, 11th and P Streets, Sacramento, California, up to 2 o'clock P. M., Tuesday, March 3, 1931 said bids thereafter on said day to be publicly opened and read for the erection and completion of Additional Livestock Building No. 2, State Agricultural Park, Sacramento, California, in accordance with plans and specifications therefor.

The Building is one-story with concrete foundations and floors, brick walls, steel roof construction with tile and composition roofs. The total floor area is approximately 63,000 square feet.

Separate bids will be entertained for the following segregate parts of the work and combinations thereof:

1. General Work, embracing all branches of the construction other than Plumbing and Electrical.
2. Electrical Work.
3. Plumbing Work.
4. Complete Mechanical, including Plumbing and Electrical Work.

Contractors shall state clearly in their application the particular segregation of work that they desire plans for.

Plans and specifications are on file for examination in the office of the Division of Architecture, Public Works Building, Sacramento, and also at Room 1025 Associated Realty Building,

Los Angeles, and at the principal California Cities Builders' Exchange office.

Plans, specifications, and proposal forms may be secured by licensed Contractors who have qualified or who will qualify by furnishing a verified statement of experience and financial condition as required by the provisions of Chapter 644, Statutes 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Questionnaire forms may be secured from the Division of Architecture.

Bids will not be accepted from a Contractor to whom a proposal form has not been issued and all bids must be on proposal forms supplied by the State.

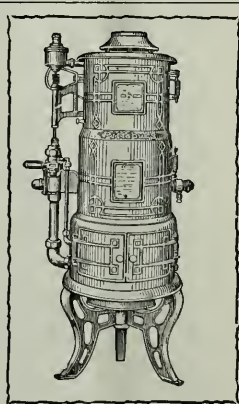
Requests for plans shall be accompanied by a deposit of twenty-five (\$25.00) dollars. Check shall be made payable to the Department of Public Works, Division of Architecture. Deposit will be returned upon receipt of the set in good condition, at Sacramento Office of the Division within 30 days after opening bids, otherwise it will be forfeited to the State.

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The Division of Architecture, Department of Public Works, reserves the right to reject any or all bids and to waive any informality in any bid received.

DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
GEO. B. McDOUGALL,
 State Architect
W. E. GARRISON,
 Director of Public Works



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BUILDING *and* ENGINEERING NEWS

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Thirty-first Year, No. 7



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stopped and all orders to discontinue
must be sent in writing to this office.

BETHLEHEM ACQUIRES McCLINTIC-MARSHALL

Bethlehem Steel Corporation, thru
resident Eugene C. Grace, in New
York, announces that it had agreed
to acquire all fabricating properties
and business of McClintic-Marshall
Corporation of Pittsburgh, Pa.

Bethlehem will make the acquisition
it was stated, for 240,000 shares of
Bethlehem Steel common stock and
8,200,000 of 4½ per cent serial notes
maturing in ten equal series annual-
ly, commencing January 1, 1932.
Bethlehem also will assume all li-
abilities of McClintic-Marshall, in-
cluding \$12,000,000 of bonds now out-
standing. The 240,000 shares of Beth-
lehem common are in the treasury
and may not represent any increase
in capitalization.

Melton interests of Pittsburgh,
which have owned controlling inter-
est in McClintic-Marshall, will as a
result of this purchase become large
stockholders in Bethlehem Steel.
The newly-acquired plants will be
operated as subsidiaries of Bethlehem
Steel.

McClintic-Marshall Corporation was
incorporated in Pennsylvania March
1900. It is engaged in fabrication
and erection of all types of steel
ridges and buildings. It has large
interests on the Steel Frame House
and its plants are located at An-
kink, Leetsdale, Pottsdam and
Aerie, Pa., Buffalo, N. Y., Chicago,
Los Angeles and San Francisco. Its
normal capacity, according to latest
reports, is 400,000 tons.

HAYWARD PLUMBERS FORM ORGANIZATION

The Hayward Master Plumbers' As-
sociation of Hayward, Alameda Coun-
ty, was organized at a meeting held
at that city last Tuesday evening.
A. Kruse Jr., was elected president,
Ames Simmons, vice-president and
Wallace P. Haskell, secretary-treas-
urer.

The organization meeting was held
at the shop of the Hayward Plumbing
company, 1601 A St., Hayward.

The first action of the new organi-
zation was to notify Manuel C. Riggs,
Hayward city plumbing inspector, of
the association's support of the pro-
posed ordinance now before the city
council seeking regulation of plum-
bing and the installation of gas fixtures
and appliances.

The proposed plumbing ordinance,
drafted after the Berkeley law, pro-
vides for conveniences and sanitation
of all plumbing installed as well as
for the licensing of plumbers. It also
provides that plumbing must be in-
stalled in such a way as to be reached
easily for cleaning.

The gas ordinance provides standard
methods for installing gas appliances,
and provides that all gas stove vents
must be vented in the outside air.

UNFILLED STEEL TONNAGE IS HIGH

U. S. Steel unfilled tonnage on Jan.
21 showed an increase of 183,755 tons
to a total of 4,132,351 tons, as against
3,943,596 on December 31, 3,639,636 on
November 30, 3,481,763 on October 31
and 4,468,710 tons on January 31, 1930.
The total volume of unfilled busi-
ness on the books at the end of Janu-
ary was the largest since April of
1930, and a little better than the aver-
age for the past twelve months, which
was about 4,000,000 tons.

Although the steel industry has ac-
celerated activity but slightly in the
past fortnight, the volume of busi-
ness booked by the leading producers
was regarded in steel circles as lend-
ing substance to reports that a fur-
ther increase in steel prices was plan-
ned.

SEVERE TEST FOR DOUGLAS FIR

Douglas fir timbers which recently
supported a crushing live load of 11,-
000 tons came through the experience
undamaged and every piece was sal-
vaged for further construction uses,
according to information received by
the West Coast Lumbermen's Asso-
ciation.

The timbers were used as a carpet
between a concrete base and steel
rails used in moving an 8-story office
building, said to be the heaviest struc-
ture ever moved, 51 feet and pivoting
it a quarter turn to place it in a new
location. The building was the cen-
tral plant and office of the Indiana
Bell Telephone Co., Indianapolis, Ind.
Douglas fir was chosen for the job
because of its great strength, resi-
liency and lightness.

In preparing for moving, an 8-inch
solid concrete slab, reinforced every
12 inches in each direction, was laid
over the entire area to be crossed
by the building. On top of this slab
was laid 125,000 feet of 6x8-inch Dou-
glas fir timbers. The timbers were
spaced eight inches apart. Over these
were laid cross ties to support the
steel rails. Three-inch rollers were
placed on the rails.

FEDERAL BUREAU ASKS ROAD BIDS

Bids will be considered by the U.
S. Bureau of Public Roads in San
Francisco on February 26 for grading
Section A of Route 11, Lava Beds
National Forest Highway in the Mo-
doc National Forest, for a distance of
10,322 miles.

The project will involve 78 acres of
clearing; 95,200 cubic yards of un-
classified excavation; 365 cubic yards
of excavation for structures; 17,200
station yards of overhaul; 10,93 miles
of finishing earth graded road; 93 cu.
yds. of Class B concrete; 914 pounds
of reinforcing steel and the placing
of 33 right of way monuments, accord-
ing to estimates compiled by C.
H. Sweetser, district engineer for the
bureau.

FRESNO ELECTRICAL ORDINANCE INVALID

Holding that the Fresno City ordi-
nance which forced the employment by
contractors on city jobs of licensed
electrical foremen is illegal because
it is in contravention to the state 1911
street improvement act, the fourth
district court of appeals returned an
opinion ordering C. C. Van Valken-
burgh, city commissioner, to approve
assessment rolls for the installation
of electroliers on Fresno Avenue, thus
approving the work. The writ was
granted to Walker & Martin, con-
tractors who installed the lights.

The opinion was prepared by Asso-
ciated Justice Emerson J. Marks
who held that the city could not pass
any ordinance which affects the in-
stallation of street work.

The city ordinance, which became
effective March 1, 1929, provided for
the hiring of licensed electrical fore-
men on city jobs. Walker & Martin,
who were the successful bidders on the
Fresno Avenue electrolier installa-
tion, refused to obtain a license for
their foreman, holding that he did
not have to undergo the city exami-
nation.

Van Valkenburgh, in order to de-
termine the legality of the law, re-
fused to approve the assessment rolls,
with the result that the lights were
not turned on. The construction men
went to the appeals court for the writ
of mandate.

ARCHITECTS OF SACRAMENTO FAVOR FILTER REBUILDING

The Society of Sacramento Archi-
tects is on record by unanimous vote
as favoring the proposed \$480,000 bond
issue for additions and repairs at the
municipal water filtration plant.

In a letter filed with the city coun-
cil the architects say they realize the
work at the plant is absolutely neces-
sary to safeguard Sacramento against
financial loss in case of a shut-down
or other possible calamity.

The society compliments the coun-
cil for the method employed to obtain
professional advice before preparing
the bond issue.

"We concur with the city manager
that there is no better time to under-
take a construction program than at
the present," the letter said.

"We also realize and agree with the
consulting engineers that the present
plant, with the proposed additions,
will still be a necessary stand-by unit
even though the Silver Creek project
should become a reality within the
next few years."

William Clark Marshall, Oakland
contractor, has filed a voluntary peti-
tion in bankruptcy in the Federal
Court setting his debts at \$148,524.
His assets are approximately \$11,000,
the petition says.

CONTRACTOR'S LIABILITY FOR DAMAGE TO ADJOINING PROPERTY

By HERMAN J. GALLOWAY

Question: Where the owner of a lot procures a contractor to erect a building on such lot including the excavation and building of a foundation and the contractor sublets the excavation and foundation work, is there any legal liability upon any of such persons or firms because of cracks subsequently appearing in the walls of a building on an adjoining lot?—R. R., Florida.

The Facts. "A," the owner of a city lot, desired to erect an apartment house thereon and engaged "B" as the general contractor. "B" in turn sublet the piling to "C." "C" jettied and drove the piling foundation, the entire operation taking place on A's lot and in accordance with building regulations. There were large apartment houses on the lots on either side of A's lot. Some time after the piling had been driven, and when A's house was almost completed, the owner of one of the adjoining houses claimed damages stating that the operation had caused settlement cracks in the walls and ceilings of his building. It is desired to know whether any liability exists in this situation and, if so, upon whom does it fall.

It is a general rule of law that one has a right to use and enjoy his property in any reasonable manner he may desire, but this rule is subject to certain qualifications, among them being that, if the owner of the property in doing a lawful act upon his own land fails to use ordinary and reasonable care, he will be held liable for damages resulting to other property because of such failure. He will also be held liable for damages resulting to adjoining property because of doing an unlawful act upon his own property.

If the owner of property engages an independent contractor to do a lawful thing upon such owner's land, the owner will not be held liable for damages because of the negligent doing of such act unless the owner directed the doing of the thing in a negligent manner or was himself negligent in engaging an incompetent contractor. The contractor will be held liable in the doing of such work only where he has performed it in a negligent manner.

The following discussion of decided cases fully illustrates these principles: In *Larson v. Metropolitan Street Railway Co.*, 116 Mo. 234, 245, in a case involving damages resulting from excavation, the court said:

"For present purposes it will suffice to say, it is settled law that the unquestionable right of a landowner to remove the earth from his own premises, adjacent to another's building, is subject to the qualification that he shall use ordinary care to cause no unnecessary damage to his neighbor's property in so doing."

In *Radloff's Executors v. Mayor, Etc., Brookly*, 4 N. Y. 135, 200, a claim for damages caused by excavation, the court said:

"But a man may do things under a lawful authority, or in his own land, which may result in an injury to the property of others, without being answerable for the consequences. Indeed, an act done under lawful authority, if done in a proper manner, can never subject the party to an action, whatever consequences may follow. Nor will a man be answerable for the consequences of enjoying his own property in the way such property is usually enjoyed; unless an in-

Mr. Galloway is the legal editor for "The Contractor," the official publication of the Associated General Contractors of America. The article published herewith is reproduced with the special permission of the editors of The Contractor.

jury has resulted to another from the want of proper care or skill on his part."

In *Thompson v. Railroad*, 137 Mo. 42, 68, the court said:

"The mere fact that an improvement erected by an owner on his premises may inflict an injury to the adjoining property, of itself, does not create a liability on the part of the owner to recompense his injured neighbor. To create a liability there must exist some abuse of the lawful right of an owner to use his property as he would. If the injury results alone from the exercise of a right of ownership, it is damnum absque injuria. But if the right be exercised in a wanton, reckless or negligent manner and such perversion causes the injury, then the actor becomes a wrongdoer, since he violates the maxim 'utere tuo ut alienum non laedas.'"

To the same effect are *Niagara Oil Co. v. Jackson*, 91 N. E. 825; *St. Joseph Ice Co. v. Berich*, 53 Ind. A. 131; *Swisher v. Sipps*, 13 Pa. Super. 43; *Walker v. Stroeder*, 67 Pa. 36.

It is also equally well settled that if the owner has retained no control over the work and has not interfered therewith, and the work is lawful and necessary for the enjoyment of his property, he is not liable for resulting injuries in the absence of a statute binding him to perform the work efficiently.

In *Berg v. Parsons*, 156 N. Y. 109, 110, an action brought for damages to adjoining property resulting from the blasting of a cellar, the court said:

"There are certain exceptional cases where a person employing a contractor is liable, which, briefly stated, are: Where the employer personally interferes with the work, and the acts performed by him occasion the injury; where the thing contracted to be done is unlawful; where the acts performed create a public nuisance; and where an employer soundly instructed to do a thing efficiently and an injury results from its inefficiency. Manifestly, this case falls within none of the exceptions to which we have referred. There was no interference by the defendant. The thing contracted to be done was lawful. The work did not constitute a public nuisance, and there was no statute binding the defendant to perform it efficiently. In none of those exceptional cases does the question of negligence arise. There the action is based upon the wrongful act of the party, and may be maintained against the author or the person performing or continuing it. In the case at bar the work contracted for was lawful and necessary for the improvement and use of the defendant's property. Consequently no liability can be based upon the illegality of the transaction, but it must stand upon the negligence of a subcontractor or his employee alone."

To the same effect are *Roemer v. Striker*, 142 N. Y. 134; *Gourdiere v. Kansas, California, Colorado, Florida,*

Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, New Hampshire, New Jersey, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Vermont, Virginia, Washington, West Virginia, Wisconsin and Wyoming.

The rule above stated has been carried further so as to exempt the owner from liability for the negligent acts of a subcontractor or his servants.

In *Hayes v. Chicago Etc. Co.*, 203 Ill. A. 472, 481, involving blasting of stumps by a subcontractor, the court exempted the contractor and the owner, saying:

"It is clear, therefore, that the men Cormanck, E. D. Smith (N. Y.) 254; *Edmondson v. Pittsburgh, Etc. Co.*, 111 Pa. 316.

In *French v. Vix*, 143 N. Y. 90 (Aff. 210 N. Y. S. 1016), the foregoing principle was applied in a case involving blasting where the contractor sublet the blasting work.

If the negligent or unskilful act is done by a contractor, the ordinary rules of master and servant apply. The contractor is merely a servant of the owner, carrying out his instructions, the weight of authority is that a joint action against the owner and contractor may be maintained for injuries resulting from the negligence of a wrongful act of the contractor for which the owner is liable under the doctrine of *respondent superior*. *Central of Georgia v. Carlock*, 196 Ala. 659; *Stinson Etc. Co. v. Prevatt*, 84 Fla. 416; *Weaver v. Hale*, 52 Fla. 85; *Wright v. Compton*, 53 Ind. 337, and many other cases.)

If, however, the work is undertaken by an independent contractor, the rule is different. An independent contractor is one who in rendering services exercises an independent employment or occupation and represents his employer only as to the results of his work and not as to the means whereby it is done.

In *Casement v. Brown*, 148 U. S. 615, 622, 623, a case involving the erection of piers for a bridge, the Supreme Court said:

"With reference to the first contention: Obviously, the defendants were independent contractors. The plan and specifications were prepared and set forth by the railroad companies; the size, form and place of the piers were determined by them, and the defendants contracted to build piers of the prescribed form and size at the place fixed. They selected their own servants and employees. Their contract was to produce a specified result. They were to furnish all the material and do the work, and by the use of that material and the means of that work were to produce the completed structures. The will of the companies was represented only in the result of the work, and not in the means by which it was accomplished. This gave to the defendants the status of independent contractors, and that status was not affected by the fact that, instead of waiting until the close of the work for acceptance by the engineers of the companies, the contract provided for their daily supervision and approval of both material and work."

"It is enough for this case that these defendants contracted to do the work, and to produce a finished structure according to certain plans and

efficiencies, and having made such contract, and engaged in such work accordance therewith, they are responsible for all injuries resulting in their own negligence."

Generally, the circumstances which entitle one to be an independent contractor are the independent nature of his business, the existence of a tract for the performance of a definite piece of work, the agreeing to pay a fixed price, the employment of assistants the contractor, who are under his control, the furnishing by him of the necessary materials, and his right to stop the work while it is in progress, except as to results. *Thomas v. Twiss*, 90 Conn. 44; *Whart v. United Fuel Gas Co.*, 86 Va. 73.

Although the rule is stated in many different ways, the general rule applicable from the decisions and then universally recognized is that the facts are sufficient to establish the relation of an independent contractor, and the right to be exercised in selecting a competent contractor, and the thing contracted to be done is not in itself a nuisance, nor will necessarily result in a nuisance if proper precautionary measures are used, and an injury to property of a third person results, from the fact that the work is done, but from the wrongful and negligent manner of doing it by a contractor, his servants, the owner is liable therefor.

Hunt v. McNamee, 141 Fed. 233, speaking of the competency of a contractor, the court said:

"The plaintiff sought to show the reputation of an incompetent contractor. The general reputation of incompetency cannot be given in evidence until the fact of incompetency has been established, and this with reference to showing that it was of a character as would imply no liability to the employer. *Monahan v. Lester*, 150 Mass. 439, 23 N. E. 15 Am. St. Rep. 226. It is insufficient upon the part of a contractor to show it by proper evidence. This may be done by showing specific acts of incompetency, and bringing them home to the knowledge of the master or by showing to be of such a nature and frequency that the master in the exercise of due care must have had them brought to his notice."

McGrath v. St. Louis, 215 Mo. 210, speaking of the competency of a contractor, the court said:

"The general rule is that one who contracts for a competent and person, exercising an independent discretion to do a piece of work, is himself unlawful or attended with error to others, according to the contractor's own methods and without being subject to control, except the results of his work, will not be responsible for the wrong of such contractor, his subcontractor or his servants, committed in the prosecution of such work."

Sullivan v. King Ering Co., 122 Ill. 239, involving the construction of a bridge, the court, holding that the construction work must not be a nuisance, said:

"A general contractor is not liable for the persons for the negligent acts of an independent subcontractor unless the thing contracted to be done necessarily a public nuisance, or an injury is a direct result from the thing which the independent contractor is required to do. *15 Am. & Ency. Law*, 132, 196; *Quarman v. Pitt*, 6 M. & W. 439; *Laugher v. Foster*, 5 B. & C. 560; *Blake v. Ferguson*, 48, 55 Am. Dec. 204; *Robinson v. Chicago*, 4 Wyo. 627, 18 Wyo. 127; *Casement v. Brown*, 148 U. S. 13 Sup. Ct. 672, 37 L. Ed. 582. The principle of nonliability for the negligence of an independent contractor applies to and exempts the

general contractor. *Powell v. Virginia Const. Co.*, 88 Tenn. 652, 13 S. W. 601, 17 Am. St. Rep. 925; *Rapson v. Cubitt*, 9 M. & W. 710; *Slater v. Merseu*, 64 N. Y. 138."

The rule applies in Alabama. Arranged in the blasting were the employees of the subcontractor and under his sole control, and that the means employed by them in the grubbing were under the sole control of the subcontractor. *Neither Ward & Orr* nor the railway company had any control over the kind of men to be employed or the conduct of the men employed in the work of blasting. They were employed by McMillan for that purpose, and his employees only. McMillan under his contract was bound to furnish his own labor and such labor was under his sole control; he must, therefore, be regarded as an independent contractor."

Scarborough v. Alabama, Etc. R. Co., 94 Ala. 497; *St. Louis Etc. R. Co. v. Knott*, 54 Ark. 424; *Callahan v. Burlington Etc. R. Co.*, 23 Iowa, 662; *Adritt v. Gillette-Herzog Mfg. Co.*, 55 Minn. 296; *McGrath v. St. Louis*, 215 Mo. 191; *Cuff vs. Newark R. Co.*, 35 N. J. L. 17.

Turning now to a consideration of the rights of adjoining property owners, independent of any acts of negligence by the owner or his contractor, we find that from the earliest days of the common law it has been held that an owner of land is entitled to have it supported and protected in its natural condition by the land of the adjoining proprietor. This right was limited to the land in its natural state and did not extend to such improvements that might have been placed thereon.

In some states, including California, Ohio and South Dakota, statutes are in force substantially affirming the doctrine of lateral support for land in its natural state as it exists at common law. The right to lateral support for land in its natural state only and not including building thereon.

The right to lateral support by grant or prescription, has also been upheld by the courts of Alabama, Michigan, Missouri, New Jersey, New York, Oregon, Pennsylvania, Vermont, Virginia, West Virginia and Wisconsin. The weight of authority in the United States is that a right to support improved land cannot be acquired by prescription, that is to say, the uninterrupted enjoyment of the land with the building thereon for a period of 20 years, though courts of California, Delaware, Illinois, New York, Vermont and Virginia have held to the contrary.

It may be safely said that an owner of adjoining land upon which there are buildings or other structures may lawfully excavate on his own land and to the line, although he endangers such structures and erections, and, in the absence of negligence or statutory provisions on the subject or of a contractual or prescriptive right of lateral support, he will not be liable for the injury sustained by the adjoining owner, as to the buildings or structures; or in other words, he will be liable for no greater loss than would have resulted had there been no building on the land.

United Transportation Co. v. Chicago, 99 U. S. 635, 45, the court said:

"The general rule may be admitted that every land-owner has a right to have his land preserved unbroken, and that an adjoining owner excavating on his own land is subjected to this restriction, that he must not remove the earth so near to the land of his neighbor that his neighbor's soil will crumble away under its own weight and fall upon his land. But this right of lateral support extends only to the

soil in its natural condition. It does not protect whatever is placed upon the soil increasing the downward and lateral pressure. If it did, it would put it in the power of a lot-owner, by erecting heavy buildings on his lot, to greatly abridge the right of his neighbor to use his lot. It would make the rights of the prior occupant greatly superior to those of the latter."

In *Moody v. McClelland*, 30 Ala. 45, 49-50, the court said:

"But the right here alluded to only applies to land in its natural state, and the doctrine does not extend to cases where the owner of land has, by buildings, or other artificial erections, increased the lateral pressure of his land upon the adjoining soil. The principle established by the authorities is, that one landowner cannot, by altering the natural condition of his land, deprive the adjoining proprietor of the privilege of using his own land as he might have done before; and, consequently, that he cannot, by building a house near the margin of his land, prevent his neighbor from excavating his own soil, although it may endanger the house. Thus in *Wyatt v. Harrison*, (3 Barn. & Adol. 871) Lord Tenterden, C. J., said: "It may be true that, if my land adjoins that of another, and I have not by building increased the weight upon my soil, and my neighbor's margin of land so as to occasion mine to fall in, he may be liable to an action. But, if I have laid an additional weight upon my land, it does not follow that he is to be deprived of the right of digging his own ground, because mine will then become incapable of supporting the artificial weight which I have laid upon it." And accordingly it was held in that case, that the possessor of a house, which is not ancient, cannot maintain an action against the owner of adjoining land, for digging away that land so that the house falls in."

In *Aston v. Nolan*, 63 Calif. 269, 272, the court said:

"But this right of a land owner to support his land against that of the adjacent owner does not, as before stated, extend to the support of any additional weight or structure that he may place thereon. If, therefore, a man erect a house on his own land so near the boundary thereof as to be injured by the adjacent owner excavating his land in a proper manner, and so as not to have caused the soil of the adjacent parcel to fall if it had not been loaded with an additional weight, it would be *damnum absque injuria*, a loss for which the person so excavating the land would not be responsible in damages."

In *Ceffarelli v. Landino*, 82 Conn. 124, 129, the court said:

"But if there are buildings upon the neighbor's land, the increase of the lateral pressure, and if the giving way is due to this added burden, the person excavating is not liable, in the absence of negligence in conducting the work, for the damage so resulting to the owner. The hardship of this rule, especially in cities, is apparent, and an attempt has been made in some of the states to establish a rule more favorable to an owner upon whose land buildings have been erected. In this state there is no such statute. At common law, therefore, it was not the plaintiff's duty to support or protect the defendant's building, and the latter, had he built the foundation and furnished the support which the plaintiff provided, could not have re-

covered for it in an action against him."

In *Clemens v. Speed*, 93 Ky. 284, 288-289, the court said:

"The adjoining owner can not by changing the natural condition of his land take away his neighbor's right to the use he could have made of it in the absence of such change. He can not load down his own soil so as to require the support of his neighbor's."

"It is difficult to see how an easement, or prescriptive right, can be acquired to the lateral support of another's building, when that of each owner is altogether upon his own land. Each has a right to build, and the one can not prevent the other from deriving the benefit of such support. It can not be said it has existed with his consent, and that a grant and right to the use is to be presumed from lapse of time, because the owner of the alleged servient estate has had no right in the meantime to prevent such a benefit. He can not with any effect raise his voice against it. It must result, or he can not use his own property or have a building of his own."

In *Gilmore v. Driscoll*, 122 Mass. 139, 201, the court said:

"While each owner may build upon and improve his own estate at his pleasure, provided he does not infringe upon the natural right of his neighbor, no one can by his own act enlarge the liability of his neighbor for an interference with this natural right. If a man is not content to enjoy his land in its natural condition, but wishes to build upon or improve it, he must either make an agreement with his neighbor, or dig his foundations so deep, or take such other precautions, as to insure the stability of his buildings or improvements, whatever excavations the neighbor may afterwards make upon his own land in the exercise of his right."

In *Schultz v. Byers*, 53 N. J. L. 442, 443, the court said:

"As to land in its natural condition there is a right to such support from the adjoining land; as to buildings on or near the boundary line, injured by excavating on the adjoining land, there is no right of action, in the absence of improper motive, or of carelessness in the execution of the work. This is the law as established by the cases prior to that decision; it has remained the unquestioned law in this state since that time, and it has been confirmed by many cases since in other courts."

To the same effect are: *Mamer v. Lusslem*, 65 Ill. 484; *Block v. Haseltine*, 3 Ind. A. 492; *Winn v. Abeles*, 35 Kan. 85; *Serio v. Murphy*, 99, 545; *Thurston v. Hancock*, 12 Mass. 220; *Obert v. Dunn*, 140 Mo. 476; *Radeliff's Ex. v. Mayor*, 4 N. Y. 194; *Davis v. Summerville*, 151 N. C. 352; *Weisse v. Kohlhaagen*, 58 Or. 144; *Sharpless v. Boldt*, 218 Pa. 372; *Hannicker v. Lepper*, 29 S. D. 371; *Graves v. Mattison*, 67 Vt. 630.

The general right to excavate, however, does not relieve an owner, or his contractor, from taking reasonable precaution against injuring adjoining land upon which there are buildings, and it is his duty to proceed with excavations in an ordinarily skillful and careful manner, but he is bound to use only reasonable and ordinary care to prevent injury to buildings, and if he does so and injury results it is what is known in law as *damnum absque injuria*, or damage without injury.

In *Bohrer v. Dienhart Harness Co.*, 19 Ind. App. 489, 498-9, the court said:

"Where one, in making improvements on his own land, excavates it and thereby endangers the support of a building upon the adjoining land of another, the former, by giving notice to the latter, may relieve himself of the necessity of using extraordinary efforts to protect the building; but in making such excavation ordinary care must be exercised to avoid such danger, and the person making it will be responsible for the consequences of negligence therein of himself or his servants."

In *City of Quincy v. Jones*, 76 Ill. 231, 241, the court said:

"If injury is sustained to a building in consequence of the withdrawal of the lateral support of the neighboring soil, when it has been withdrawn with reasonable skill and care to avoid unnecessary injury, there can be no recovery; but if the injury is done the building by the careless and negligent manner in which the soil is withdrawn, the owner is entitled to recover to the extent of the injury thus occasioned."

In *Myer v. Hobbs*, 57 Ala. 175, 176-7, the court said:

"We have no disposition to discuss or to alter the principles settled in *Moody v. McClelland*, 35 Ala. 45. That case was thoroughly considered, and embraces an elaborate collation of authorities, English and American, and we are satisfied with the principle then announced, 'that every man has a right to lateral support for his land from the adjacent lands of other proprietors, and that the latter can not impair or destroy this right by excavations on their own lands; but this principle applies only to the land itself in its natural state, and does not extend to houses, or other artificial structures thereon erected, which increase the lateral pressure on the adjacent lands. Yet, if a person making a lawful excavation on his own land, performs the work so negligently and unskillfully that injury thereby results to the land or house of an adjacent proprietor, he is liable to an action for damages at the suit of the injured person.' Under this principle, the present case is narrowed to the inquiry, was the defendant guilty of negligence or want of skill in making the excavation? If he was, and if damage ensued, therefrom to the plaintiff, the action was well brought."

To the same effect are: *Kramer v. Northern Hotel Co.*, 85 Ill. A. 264; *Moellering v. Evans*, 121 Ind. 195; *Louisville Etc. R. Co. v. Bonhays*, 94 Ky. 67; *Serio v. Murphy*, 99 Md. 545; *Shafer v. Wilson*, 44 Md 268; *Gilder-Sheaer v. Hammond*, 109 Mich. 431; *Rau v. Minnesota, Etc. R. Co.*, 13 Minn. 442; *Charles v. Rankin*, 22 Mo. 566; *Booth v. Rome, Etc. Co.*, 140 N. Y. 267; *Novotny v. Danforth*, 9 S. D. 301.

Also, it has been held that the mere fact that an adjacent building suffers injury is not sufficient to show negligence on the part of the excavator, for the injury may have been the result of defects in the building.

In *Schultz v. Byers*, 53 N. J. L. 442, 444, the court said:

"There was no proof, or offer to prove, at the trial, that the defendant was negligent in digging his cellar, whereby the plaintiffs' house was caused to settle and the walls to crack, beyond the mere fact that this was the result. This result alone was not sufficient, for it may have

been caused by defects in the plain tiffs' house."

In *Serio v. Murphy*, 99 Md. 545, 556 the court said:

"In the first place negligence cannot be presumed because the wall cracked or fell. I Thompson on Negligence, 277. And that seems to be the situation before us in this case. Nor is the highest degree of care required."

The facts stated do not specifically show whether the work was done a careful or a negligent manner, no whether the contractor or subcontractor were competent. It is stated that the work complied with the building code and this, at least creates an inference that there was no negligence. It seems clear that in the absence of negligence, reasonable care having been taken during the operation to prevent injury to buildings on adjoining property, assuming that there is no statute or municipal ordinance imposing upon the owner or his contractor any greater obligations than exist at common law, neither the owner, the contractor, nor the subcontractor can be held liable for cracks subsequently appearing in the adjoining property.

CAMPBELL AGENCY PLACED WITH FIRE PROTECTION PROJ

Appointment of the Fire Protection Products Company of San Francisco as Northern California representative for the Campbell Industrial Window Company of New York is announced by Alvin M. Karstensen, Pacific Coast district manager of the Campbell Industrial Window Company.

The Campbell Industrial Window Company specializes in the manufacture of solid sash, storm windows and patented weatherstripped windows of steel.

Products of the Campbell Industrial Window Company to be handled by the Fire Protection Products Company will include horizontally placed windows, commercial and architectural projected windows, office type 1-10 projected windows, continuous window mechanical operators for both manual or electrical control of pivoted continuous windows, industrial department and wharf doors, airplane hangar doors, cast-iron basement windows, utility windows, standard steel doors and frames, standard casement windows and screens, and double hung windows.

This completes the window division which also includes solid sash double hung, hollow metal double hung, light and heavy casements in either steel, aluminum or bronze. E. C. Bowen, formerly with Gies & Kelham, architect, and late of Tacoma Steel Company, will be in charge of the sales of all products of the Campbell Industrial Window Company according to J. C. Schultheis, manager for the Fire Protection Products Company.

In addition to carrying a complete line of the Campbell products, the Fire Protection Products Company will continue to manufacture and make their own line consisting of doors, Kalamien copper and brass doors and trim, ornamental entrance and sheet metal work of every description.

The firm will also continue its manufacture and installation of fireproof metal fire doors.

The Fire Protection Products Company will carry a complete line of the above products for immediate delivery in their warehouse which is located at 1101 16th Street, San Francisco.

THE OBSERVER

What He Hears and Sees on His Rounds

TRADE NOTES

Newspaper dispatches from Washington report the House Territories committee has approved a bill to make \$580,000 available for Federal aid in road building in California.

With a view to relieving unemployment conditions and to provide necessary school improvements a one million dollar bond issue is proposed by the Pasadena Board of Education. The improvements would consist of new buildings at the junior college grounds.

A. S. Davies, plumber of Santa Cruz will be a candidate for the office of city commissioner of that city at the coming election. Davies has never held public office and declares he has been arrested three times on technical charges for refusing to take out a plumber's license and believes that his efficient experience for him to try to be a commissioner.

A bill barring motor trucks other than those transporting perishables from using state highways on Sundays, Memorial Day, July 4 and Labor Day between the hours of 11 A. M. and 11 P. M. was passed by a wide margin in the Washington State Senate last week. The measure will now go to the house for action. Motor trucks carrying sweet milk, soft fruits, dry milk cans, berries, fresh vegetables and other perishables may use the highway during the hours prohibited to other uses by trucks.

A bill introduced into the New York State Senate by Minority Leader William F. O'Brien of New York City, proposes to amend the public welfare law by providing that all wage earners above the age of 21 unemployed due to business depression shall be given two days work each week on public work at \$5 per day from the date of the passage of the bill until May 15. It is estimated that it would cost \$8,000,000 a week to give employment in this way to the estimated 800,000 out of work in New York State. The measure is sponsored by the State Federation of Labor.

A five-day work week for all city officials and all city employees, including employes of contractors engaged on public work, is provided for in a charter amendment to be voted in Seattle on March 10. If this ordinance passes, Seattle will be the first city in the United States to put municipal employes on a five-day work basis.

Officials of the Red River Lumber Co. at Westwood, Calif., have issued denial of persistent rumors that the concern has been eliminating Mexicans from its employment rolls. The company's statement is that the employment of Mexican labor for certain classes of work has been found satisfactory, particularly in that they do not move from one job to another frequently, thereby lessening the labor turnover. The company's policy stated as being not to employ outsiders during the period of the settlement, but to take care of those Mexican workmen who had been in the woodwork for some time and had been found satisfactory as workers.

Seattle's city council has refused, March 2, to submit to popular vote, on March 10, an amendment giving the City Light Department jurisdiction over its own engineering work, relieving the city's engineering department of that task. Referendum petitions forcing a popular vote are being circulated. City Light charging that lack of co-ordination between the two offices resulted in a \$1,000,000 loss when the Dalhousie power house, on the Skagit River development, was not completed by the time the dam was ready for use. On this score, the Citizens' Municipal Utilities Protective League, petition circulator, declares the engineering department is "either patently inefficient, or deliberately obstructing the light department's development work."

A home modernizing bureau to aid those who may desire to build or to remodel homes has been organized at Whittier, Calif., was headquartered at 136 North Greenleaf Ave., with Irwin Dunbar, architect, in charge. The Chamber of Commerce sponsored the movement and more than 50 manufacturers and business firms represented in Whittier have co-operated.

Frank G. White, chief engineer for the State Harbor Commission, in a communication forwarded to Building Trades Council, states that "in connection with the preparation of specifications for new construction projects, we are now attempting to prepare a paragraph dealing with the five-day week plan, which will satisfactorily meet the situation which exists at this time."

The San Francisco Bay District Council of Carpenters is on record endorsing the Inman bill, providing for the payment of the highest prevailing wage scale on all work contracted for and performed by the State of California. The council has also endorsed the Maloney bill, which provides that on all state work only citizens of the United States and bona-fide residents of California shall be employed.

A comprehensive plan for relief of the unemployed is announced by the Arizona state highway department in reporting that highway construction involving expenditure of more than \$4,000,000 would be under way before July 1. About \$2,000,000 will be expended the next 90 days, when double shifts will be worked on the projects, the report indicated.

Woodland Plumbing & Supply Co., will shortly open new quarters at 427 Main St., Woodland. With the opening of the new building the firm name will be changed to Woodland Plumbing & Hardware Company.

G. W. Price Pump & Engine Co., 1360 Poisson St., are making alterations and additions to provide for increasing the capacity of their manufacturing plant. A new one-story Class C brick addition is being erected at a cost exceeding \$11,000. The new structure will provide 9500 additional feet of shop space.

Van Fleet Frear Co., San Francisco dealer for Armstrong's cork products, has been appointed exclusive distributor of the United States Rubber Company's line of rubber flooring.

Western Plumbing Supply Co., Ltd., of San Francisco, capitalized for \$50,000, has been incorporated. Directors are Maurice D. L. Fuller, Charles A. Ruggles and Dudley F. Miller.

J. S. Spelman has been named general manager of the Cutter Mill and Lumber Co., of Sacramento. It is announced by Curtis H. Cutter, president of the concern. Spelman was formerly connected with the Superior Building-Loan Association of Sacramento and continued with that association when it merged last April with the Mercantile Building-Loan Association of Oakland.

Maydwell and Hartzell, Inc., with offices in San Francisco, Los Angeles and Seattle, has been appointed by the Lapp Insulator Company to represent the Lapp line in the states of California, Oregon, Washington, Idaho Nevada and Arizona. The Lapp Insulator Company manufactures a complete line of suspension and pin type insulators and a wide variety of special porcelain pieces. In addition recently they have developed the fog type insulator design which has been used extensively on the Pacific Coast.

Guy A. Barker, former sales manager of the power products department, Pacific Division, Johns-Manville Sales Corp., with headquarters in San Francisco on February became sales manager of the power products department in the company's Western division with headquarters in Chicago. Barker was an active worker in the San Francisco Electrical Development League, a member of its board of directors for two years, and served as chairman of its program committee.

Big Electric Ventilating Company, through its Pacific Coast manager, Andrew G. O'neal of Los Angeles, announces the opening of a branch office in San Francisco with E. D. Price in charge. The San Francisco branch will cover the Northern California section. Price was formerly associated with Westinghouse Electric & Supply Company in Chicago in charge of its ventilation business and for five years prior to that was a ventilation specialist for the Westinghouse Electric Company in Los Angeles.

H. Bruce Wiscomb of Los Angeles, representative of the Harbor Plywood Corp., of the Pacific Northwest, announces his territory has been extended to cover the entire state of California.

December shipments of steel-furniture stock goods, as reported to the Bureau of the Census by 34 manufacturers in the "business group," totaled \$1,806,179, as compared with \$1,672,518 in November, \$2,781,610 in December, 1929, \$3,117,139 in December, 1928, and \$2,740,602 in December, 1927. December shipments of shaly-ware, compiled from reports of 15 companies, totaled \$468,232, as compared with \$457,659 in November, \$856,011 in December, 1929, \$791,376 in December, 1928, and \$577,910 in December, 1927.

HERE—THERE EVERYWHERE

R. H. Thompson, city engineer, of Seattle, has endorsed a movement to have a commission of capable engineers make a survey regarding the feasibility, practicality and costs of the proposed tunnel through the Cascade Mountains. Thompson would have the governor name a state commission to study the project inasmuch as money for the work must come from the state.

Julian W. Silliman has been elected president of the Stanford Chapter, American Society of Civil Engineers, succeeding Larry Bryan. Other officers are: Cyril Thomas, vice-president; Tom Bedford, treasurer; J. G. Sutherland and Michael Kerner, secretaries.

Daniel R. Waggoner was elected president of the Santa Barbara Builders' Exchange for 1931. Fred C. White was elected vice-president; W. W. Fitkin, treasurer; C. W. Carpenter, secretary, and S. J. McKinnon was retained as executive secretary and general manager. Directors for 1931 are: H. L. Sweeney, Carl S. Peterson, Albert E. Schuster, W. S. Fritz, H. G. Meyer, W. W. Fitkin, D. R. Wagner, R. M. Cameron, Ivor Davies, M. Maitland and C. W. Carpenter.

Lumbermen's Post No. 403, American Legion, has been formed in Los Angeles with the following temporary officers: J. A. Brush of the W. L. Cooper Lumber Co., acting commander; Lloyd Cole of Hammond Lumber Company, acting adjutant, and J. L. Cunningham of the Hayward Lumber & Investment Co., acting finance officer.

Chas. F. Bulotti was re-elected president of the San Francisco Machinery Dealers' Association at the annual meeting of that organization at the St. Francis Yacht Club last Thursday evening. Other officials continued in office were H. L. Terwilliger, vice-president; J. E. Stott, treasurer; Joseph Shaddick, secretary, and Miss N. G. Lawrence, assistant secretary.

Twenty firms comprising Tacoma's Electrical Contractors and Dealers Association have adopted a seven-hour working day to relieve unemployment among electrical workers.

George C. Foss, electrical contractor of Sacramento, has been installed as president of the Sacramento Exchange Club.

E. R. Cherryman, 50, building contractor of Oakland, was killed in that city last Sunday night when run down by an automobile at E 12th St. and 4th Ave.

John Thomas, manager of the Los Angeles office of the Coos Bay Lumber Company, has been transferred to the San Francisco office of the company.

J. W. Farrington, 57, president of the Carpenters' Union of Sacramento, committed suicide Feb. 7 by firing a shotgun into his head. Financial difficulties, caused by three years of unemployment, are said to have prompted the act.

PACIFIC COAST BUILDING SLACKENS DURING JANUARY

The following is a tabulation of building permit totals for Pacific Coast states during the month of January, 1931, as reported by building department executives in the cities listed, together with the January, 1930, listing for comparative purposes:

CALIFORNIA

City	January, 1931		January 1930
	No.	Cost	
Alameda	26	\$ 104,721	\$ 24,795
Alhambra	54	89,375	170,120
Anaheim	47	47,550	120,870
Bakersfield	54	38,760	122,070
Berkeley	83	90,060	434,054
Beverly Hills	69	324,850	603,900
Burbank	24	42,400	58,170
Burlingame	13	76,715	79,750
Carmel	6	20,450	56,925
Chula Vista	13	16,565	7,255
Colton	11	18,900	14,650
Compton	17	16,170	48,925
Emeryville	4	25,800	20,950
Eureka	27	27,725	115,555
Fresno	116	83,127	171,142
Fullerton	20	16,250	38,550
Glendale	128	244,210	277,055
Hayward	11	6,907	7,250
Huntington Park	32	49,170	93,764
Inglewood	31	177,100	46,000
Long Beach	321	461,910	715,425
Los Angeles	2063	3,790,253	9,115,846
Los Gatos	4	1,700	7,733
Lynwood	9	4,150	7,250
Modesto	22	26,295	29,125
Montebello	7	9,500	10,960
Monterey	18	107,405	28,900
National City	14	7,665	9,885
Oakland	258	690,447	466,292
Oceanside	13	8,330	8,600
Ontario	16	24,350	20,800
Pacific Grove	12	12,500	15,000
Palo Alto	30	46,500	83,910
Palos Verdes Estates	10	22,500	42,000
Pasadena	310	1,251,700	237,008
Petaluma	1	4,000	3,550
Piedmont	6	14,625	45,617
Pomona	60	90,940	51,104
Redlands	14	18,426	190,042
Redwood City	23	35,755	76,090
Richmond	27	24,705	35,200
Riverside	50	95,197	62,360
Sacramento	87	220,932	411,527
Salinas	33	126,558	77,415
San Bernardino	40	56,631	84,060
San Diego	265	506,523	369,655
San Francisco	468	1,831,053	1,431,835
San Gabriel	6	21,200	15,850
San Jose	52	216,810	207,523
San Leandro	17	37,375	33,000
San Marino	11	118,597	104,432
San Mateo	15	128,650	100,770
San Rafael	7	8,750	20,400
Santa Ana	60	71,647	61,573
Santa Barbara	73	118,030	139,139
Santa Cruz	22	30,503	32,375
Santa Rosa	20	52,400	16,570
South Gate	29	34,415	55,890
South Pasadena	3	3,477	6,025
Stockton	55	140,588	68,017
Torrance	12	9,850	21,950
Ventura	9	62,650	36,975
Vernon	9	43,010	59,800
Watsonville	10	11,550	67,470
Willow Glen	16	50,900	36,109
Total	5,325	\$12,422,822	\$17,292,164

ARIZONA

Phoenix	54	\$ 160,170	\$ 166,843
Tucson	84	117,244	130,193
Total	138	\$ 277,414	\$ 296,946

IDAHOO

Boise	21	\$ 18,572	\$ 19,282
Lewiston	13	11,710	8,450
Nampa	9	2,690	14,747
Total	43	\$ 32,972	\$ 42,479

NEVADA

Reno	30	\$ 201,400	\$ 24,550
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OREGON

Albany	3	\$ 400	\$ 3,400
Astoria	16	4,125	150
Corvallis	9	20,675	5,000
Eugene	34	19,582	22,454
Marshfield	5	8,860	600
Portland	398	628,530	666,570
Salem	28	47,174	30,732
Total	493	\$ 729,396	\$ 725,336

UTAH

Logan	5	\$ 16,000	\$ 3,600
Ogden	2	6,000	32,500
Salt Lake City	35	60,100	110,519
Total	42	\$ 72,100	\$ 146,619

WASHINGTON

Aberdeen	11	\$ 3,045	\$ 101,750
Bellingham	27	51,285	13,865
Everett	34	21,025	192,695
Longview	7	2,435	45,150
Port Angeles	14	15,500	61,600
Seattle	463	906,145	5,249,455
Spokane	87	82,925	80,731
Tacoma	171	619,470	170,925
Vancouver	15	5,715	5,465
Walla Walla	12	20,475	24,375
Wenatchee	8	3,750	4,725
Yakima	26	145,825	20,815
Total	893	\$ 1,777,595	\$ 5,970,961
Grand Total	6,961	\$15,513,699	\$24,502,078

SLIGHT CHANGE IN UNIT BUILDING COSTS OF YEAR AGO

The following schedule of unit building costs as prepared by a committee appointed by the Southern California Chapter, Associated General Contractors of America, Los Angeles, is corrected to January, 1931.

In using these figures, it should be remembered that application of an average estimate of cost to any given locality is always open to question, even where prices are uniform—which they never are. For these reasons the committee has provided a range of costs in each item which should cover all ordinary conditions, but cannot be compared with cost estimates based upon a detailed study of plans and specifications, as regularly made by a general contractor. The costs published herewith do not include the architect's fee.

TOTAL UNIT COSTS PER CUBIC FOOT

Class A Steel Frame Buildings Class A Reinforced Concrete Buildings

Office buildings.....	\$.42 to \$.64	Office buildings.....	\$.40 to \$.60
Hotels .....	.50 to .63	Hotels .....	.45 to .61
Apartments .....	.45 to .60	Apartments .....	.41 to .60
Lofts .....	.18 to .33	Lofts .....	.15 to .29
War houses .....	.16 to .26	Warehouses .....	.14 to .24

Class C Brick Buildings

Stores on ground, apts. above, cubic foot.....	\$.19 to \$.39
Apartments, cubic foot.....	.25 to .50
Hotels, cubic foot.....	.22 to .45
Lofts, cubic foot.....	.15 to .29
Warehouses, cubic foot.....	.14 to .24
One-story garages, per square foot.....	1.40 to 2.00
One-story stores, per square foot.....	1.65 to 3.00
Two-story stores, apartments above, per sq. ft. of floor area.....	2.40 to 3.50

NOTE: Volume (cu. ft.) is average floor area times the total height from lowest basement floor to high point of roof.

TOTAL UNIT COSTS PER SQUARE FOOT Frame Buildings

California Houses: Residences, two-story*:		
Good	\$2.40 to \$3.05 Good	\$5.50 to \$7.80
Medium	1.90 to 2.65 Medium	3.80 to 4.75
Cheap	1.20 to 2.39 Cheap	2.10 to 3.05

Bungalow Court—Frame Apartments

Special	\$1.65 to \$5.90 Medium	\$3.05 to \$1.25
Good	3.60 to 5.00 Cheap	2.50 to 3.80

Frame Buildings

Bungalows, special.....	\$4.50 to \$5.50	Outbuildings, frame:	
Good	3.05 to 3.50	Good	\$1.70 to \$2.40
Medium	2.25 to 3.05	Medium	1.35 to 2.00
Cheap	2.00 to 2.50	Cheap .....	.85 to 1.50

Four-flat Buildings, Two-story*

Special	\$4.55 to \$5.90 Medium	\$3.10 to \$4.05
Good	3.75 to 4.65 Cheap	2.60 to 3.70

*Use ground floor area for determining estimated cost.

Corrugated Iron Buildings, all kinds..... \$.90 to \$1.20

NOTE: Area (sq. ft.) is total floor space, including porches but not light courts.

Foot Note: In a careful study of unit building costs for the current period, the Committee found only a slight change in unit costs for buildings as compared with costs of one year ago. While several materials and labor advanced in price, certain materials were correspondingly reduced, thus rendering a very slight change in the unit costs.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Union 1694).

R-3203-S ENGINEER, preferably mechanical or chemical graduate, with 5 to 10 years' experience, including considerable application of thermodynamics to solution of heat exchange problems as found in oil refinery equipment. Must have executive ability. Apply by letter with details of experience, references and photo. Salary \$200-\$250 per month to start. Location, Northern California.

R-3467-S STENOGRAPHER, with several years' experience in office of paving contractor or department of public works, who should have learned street improvement assessment and tax problems. Must have executive ability. Salary depends on experience. Apply by letter. Location, San Francisco.

K-340-W - 2251-S REFRIGERATION Engineer who has had at least five years' experience in the preparation of specifications and designs, installation and servicing of refrigerating and ice making plants up to 100-ton capacity. Single man about 35 preferred. Four-year contract with option of renewal if services are satisfactory. Salary about \$300 a month and traveling expenses to and from China. Apply by letter. Headquarters, New York.

R-3470-S MECHANICAL ENGINEER preferably over 35 years old, with several years experience as production engineer in the employment of company manufacturing farm machinery. Only this experience considered. Man will be given full charge of small shop and office after demonstration of ability to produce results. Must be willing to accept small salary to start. Apply by letter with full details of experience, etc. Location, San Francisco.

W-1873-C-S CONSULTING ENGINEER knowing garage operation, garage equipment, car repair, car utilization and manufacture of parts for repairs, to advise on equipment for service stations and repair shops, on schedule of operation of trucks, busses and passenger cars and to organize maintenance and repair of trucks, busses and passenger cars of various makes. Experience in responsible charge of fleet operation and maintenance of trucks and busses desirable. Contract for one year, renewable. Salary open. One-third to one-half in paper checks for living expenses, balance in United States money to American bank. Applications only by letter which will be forwarded to Moscow for decision. Location, Russia.

W-2234 ENGINEER with technical engineering training, to act as sales engineer in connection with the sale and demonstration of a new type of mine drill. Should preferably have some experience and familiarity with explosives. Reasonable drawing account, plus a bonus, depending upon the results accomplished. Apply by letter. Hdqtrs., Midwest.

The Brown Instrument Company, Philadelphia, has ready for distribution catalog No. 46 covering indicating and recording tachometers in various models and the electric generators used in their operation.

Building News Section

APARTMENTS

Plans Being Prepared.
APARTMENTS Cost, \$175,000
STOCKTON, San Joaquin Co., Cal.
 No. 945 N. El Dorado Street.
 Rebuild apartment (destroyed by fire)
 5-story and basement brick structure.
 Owner—Senator Frank S. Boges, 925
 N. El Dorado St., Stockton.
 Architect—Joseph Losekann, 1215 W.
 Harding St., Stockton.
 Wrecking will be started shortly.

Contract Awarded.
APARTMENTS Cost, \$60,000
OAKLAND, Alameda Co., Cal. SW
 56th St. and Shattuck Ave.
 Three-story and basement frame and
 stucco apartments (57 apts).
 Owner—R. E. Bartlett, Rock Lane,
 Berkeley.
 Architect—Not Given.
 Contractor—N. E. Rockwell, 349 38th
 St., Oakland.

Plans Complete.
APARTMENTS Cost, \$15,000
SAN FRANCISCO, SW 43rd Avenue
 and Geary Street.
 Two-story and basement frame and
 stucco apartments (4 apts.)
 Owner—Mrs. E. Petersen, 1625 Bal-
 boa Street.
 Architect—A. H. Larsen, 447 Sutter
 Street.

To Be Done By Day's Work.
APARTMENTS Cost, \$60,000
SAN FRANCISCO, E Laguna Street
 E Waller.
 Six-story and basement class C con-
 crete apartments (18 apts.)
 Owner and Builder—W. Van Herrick,
 50 Laguna Street.
 Engineer—J. C. Little, 251 Kearny St.

Plans Being Figured.
APARTMENTS Cost, \$15,000
SAN FRANCISCO, SW Forty-third
 Ave. and Geary St.
 Two-story and basement frame and
 stucco apartments (4 apts.)
 Owner—Mrs. E. Petersen, 1625 Bal-
 boa St., San Francisco.
 Architect—A. H. Larsen, 447 Sutter
 St., San Francisco.
 Bids will be opened about Feb. 18.

Preparing Plans.
APARTMENTS Cost, \$160,000
LOS ANGELES, Cal. 1407-09½ North
 Catalina Street.
 Four-story and basement class C brick
 apartments (60x122-ft.)
 Owner—Ann Litchner.
 Architect—Theodore R. Jacobs, 1281
 Sunset Blvd., Los Angeles.

BONDS

ONTARIO, San Bernardino Co., Cal.
 —Ontario elementary school district will
 hold an election on February 24 at
 which time it is proposed to vote
 bonds of \$85,000 for new elementary
 schools in Ontario. Program includes
 erection of new building at corner of
 Sultana and Sixth Sts., additions to
 the Lincoln school, enlarge San An-
 tonio school, remodel a portion of
 South Euclid school and enlarge junior
 high school. Architect not retained.

SAN MATEO, San Mateo Co., Cal.
 —Trustees of the San Mateo Union
 High School District have decided to

postpone the proposed \$300,000 bond
 election for at least six months due
 to protests of the Burlingame Tax-
 payers Association and residents of
 Lomita Park.

COVINA, Los Angeles Co., Cal.—
 Covina Union High School District de-
 feated a \$75,000 bond issue on Feb.
 3. Proceeds were to have been used
 for the construction of an additional
 unit at the Covina high school. It
 is not likely the proposition will be
 resubmitted to the electorate this
 year.

PORTERVILLE, Tulare Co., Cal.—
 City council voted to include an \$80,-
 000 bond issue on the municipal ballot
 at the April election to finance the
 erection of a city hall and fire sta-
 tion at Main and Cleveland Sts. Ar-
 chitect—W. D. Coates Jr., 626 Rowell
 Bldg., Fresno, has prepared sketches
 for the structure.

CARMEL, Monterey Co., Cal.—Pro-
 ceedings will be started shortly by
 the trustees of the Sunset School
 District for a bond election to secure
 funds to finance erection of additional
 units at the present school plant.

BRENTWOOD, Contra Costa Co.,
 Cal.—Election will be held March 10,
 1931, to vote bonds of \$15,000 to
 finance erection of an addition to the
 present school.

CHURCHES

Plans Being Figured — Bids Close
 Feb. 24.
CHURCH Cost, \$—
UPLAND, San Bernardino Co., Cal.
 Euclid and C Streets.
 One-story and basement frame and
 stucco church (85x135 feet) (to
 seat 700).
 Owner—Upland Methodist Church
 (Rev. J. A. Stayley, Pastor).
 Architect—Marsh, Smith & Powell,
 Architects' Bldg., Los Angeles.

Specifications Being Completed.
CHURCH Cost, \$75,000
BERKELEY, Alameda Co., Cal.
 Scenic and Le Conte Aves.

SKILSAW Portable Electric Hand
 Saws (4 models).

SKILSAW Portable Electric Sander
 SKILSAW Radial Arm Attach-
 ments.

SYNTRON Portable Electric Ham-
 mers (4 models, motor-
 less).

MALL Flexible Shaft Machines (50
 models).

Electric Drills, Grinders, Buffers,
 Routers, Lock Mortisers.

PETER H. NELSON
 Labor Saving Portable Electric
 Tools.

1248 Mission St. UNDERHILL
 San Francisco 7642
 SALES . SERVICE . RENTALS

One-story brick church (to seat 6000)
 Owner—University Christian Church.
 Architect—W. H. Ratcliff Jr., Cham-
 ber of Commerce Bldg., Berkeley.
 Segregated bids will be taken within
 one week.

Plans Being Prepared.
CHURCH Cost, \$20,000
SACRAMENTO, Sacramento Co., Cal.
 SW 39th St. and 4th Ave. (72x
 125-ft.)

One-story reinforced concrete and
 stucco church (seat 250; tile roof)
 Owner—1st English Lutheran Church,
 Sacramento.
 Architect—Wm. E. Coffman, Forum
 Bldg., Sacramento.
 Bids will be taken in about 2 weeks

Plans Being Figured—Bids Close Feb
 18, 2 P. M.
CHURCH Cost, \$19,000
SAN FRANCISCO, Thirty-second Ave
 and Ulloa Street.
 One- and two-story frame and stucco
 church with slate roof (to sea
 400).

Owner—St. Stephens Protestant Epis-
 copal Church.
 Architect—Chas. Strothoff, 2724 15th
 Street.

FACTORIES AND WARE- HOUSES

Contract Awarded.
WAREHOUSE Cost, \$—
SAN FRANCISCO, NW Kearny an
 Francisco Sts.
 Four-story reinforced concrete ware
 house.
 Owner—Bradshaw Realty Co.
 Architect—Not Given.
 Contractor—Cahill Bros., 206 Sansom
 Street.

Plans Being Prepared.
SHELTERS Cost each, \$10,00
SAN FRANCISCO, Fifth Street ne
 Berry St.

Two 1-story steel frame shelters.
 Owner—Southern Pacific R. R. Co
 65 Market St.

Plans by Eng. Dept. of Owner.
 Whether bids will be called for
 not is indefinite at this time.

Contract Awarded.
WAREHOUSE Cost, \$650,0
LOS ANGELES, Cal. No. 1809 J
 Ninth Street.

Six-story and basement Class A rel
 forced concrete warehouse (100
 618 feet).

Owner—Overland Terminal Warehouse
 Company.

Architect—Samuel H. Dunford, 58
 Avalon Blvd., Los Angeles.
 Contractor—J. V. McNeil Co., 58
 Avalon Blvd., Los Angeles.

Construction will start immediate

Plans Being Revised.
FACTORY Cost, \$—
OAKLAND, Alameda Co., Cal. Eight
 first Avenue near 14th Street.

One-story reinforced concrete factor
 Owner—Blue Bird Potato Chips, in
 68th Ave. and Beck Sts., Oakland
 Architect—Charles W. McCall, 14
 Franklin St., Oakland.

Plans are being revised and will
 be refigured by the two low bidders.
 On previously call for bids low
 bidders were Harold Paige, 6651 O.
 Grove, Oakland at \$35,755, and W
 Spivock, San Francisco, at \$35,930

Bids Opened,
SHOP BLDG. Cost, \$50,000
OAKLAND, Alameda Co., Cal. Fifty-second Ave. and E Tenth St.
 Two-story reinforced concrete maintenance shop building.
 Owner—City of Oakland School Dist. Plans by Building and Grounds Department, Oakland.

Following is a complete list of bids: Alt. No. 1, deduct; Alt. No. 2, ded.; Alt. No. 3, add; Alt. No. 4, add.
 Strehlow & LeVoie, Central and Webster Sts., Alameda, \$16,597; (1) \$1273; (2) \$2546; (3) \$1273; (4) \$1273
 George Petersen, San Leandro, \$16,576; (1) \$1087; (2) \$2160; (3) \$1122; (4) \$1112

Wm. Spivack, San Francisco, \$17,379; (1) \$1000; (2) \$2000; (3) \$1050; (4) \$1100
 Jacobs & Pattiani, Oakland, \$17,979; (1) \$1100; (2) \$2290; (3) \$1100; (4) \$1100

J. B. Petersen, Oakland \$17,975; (1) \$1107; (2) \$2216; (3) \$1020; (4) \$1255
 J. H. Fitzmaurice, Oakland, \$17,399; (1) \$1280; (2) \$2226; (3) \$1193; (4) \$1192

J. B. Bishop, Oakland, \$18,386; (1) \$1100; (2) \$2200; (3) \$1100; (4) \$1100
 E. T. Lesure, Oakland, \$18,420; (1) \$260; (2) \$2400; (3) \$1350; (4) \$1350
 A. F. Anderson, Oakland, \$18,444; (1) \$1162; (2) \$2324; (3) \$1162; (4) \$1162

Alfred Olsen, Oakland \$18,464; (1) \$1000; (2) \$2000; (3) \$1800; (4) \$1900
 Wm. Keating, Oakland, \$18,990; (1) \$1192; (2) \$2390; (3) \$1250; (4) \$1250
 George Swaustrom, Oakland, \$19,955; (1) \$1474; (2) \$2948; (3) \$1474; (4) \$1474

David Nordstrom, Oakland, \$19,207; (1) \$1159; (2) \$2393; (3) \$1279; (4) \$1200
 C. C. & C. W. Haun, San Francisco, \$19,780; (1) \$1230; (2) \$2460; (3) \$1300; (4) \$1220

Lee J. Immel, Oakland, \$20,289; (1) \$1089; (2) \$2179; (3) \$1200; (4) \$1500
 C. D. Delphis, Oakland, \$20,966; (1) \$1100; (2) \$2200; (3) \$1200; (4) \$200

Emil Person, Oakland, \$21,041; (1) \$207; (2) \$2414; (3) \$1420; (4) \$1450
 N. H. Slobeg & Son, San Francisco \$21,854; (1) \$1340; (2) \$2650; (3) \$1504; (4) \$1504

Young & Horstmeyer, S. F., \$21,980; (1) \$1100; (2) \$2200; (3) \$1270; (4) \$1270
 Gaubert Eros, Oakland, \$22,840; (1) \$1350; (2) \$2300; (3) \$1420; (4) \$1470

Structural Steel
Judson Pacific Co., 609 Mission St., San Francisco, \$9995; (1) \$768; (2) \$1450; (3) \$768; (4) \$768.
Independent Iron Works, Oakland, \$650; (1) \$8300; (2) \$3130; (3) \$10400; (4) \$755.
Herrick Iron Works, Oakland, \$13,488; (1) \$800; (2) \$1600; (3) \$800; (4) \$800.

Bids held under advisement.

ub-Bids Being Taken.
'AIRY Cost approx. \$10,000
AN MATEO, San Mateo Co., Calif.
 ne -story and mezzanine floor frame and succo dairy bldg. (40x70-ft.); concrete floor, composition roof.

wner—Jersey Dairy Farm, 433 South Idaho, San Mateo.
 Plans by E. K. Dobkowitz, 424 Monterey Blvd., San Francisco.
outlet—Castle Bldg. Co., 830 Market St., San Francisco.

onstruction To Start Shortly.
FE PLANT, Etc. Cost, \$700,000
NTELOP, Sacramento Co., Cal.
 lime and dry ice plant comprising opening quarry, cable lines, bunking system, unloading system, manufacturing plant and buildings, raw material, storage quarters, etc.

wner—California Lime & Products Co., R. L. Hollingsworth, general manager, Lincoln, Calif.

Engineers — Smith - Emery Co., 651 Howard St., San Francisco.

Lime plant will have a capacity of 200 tons per day. Liquid CO2 plant, 50-ton capacity dry ice per day.

Purchase of 60 acres of property line been completed and construction of the quarry unit will start March 1. Est. cost, \$125,000. Detail plans on other units will start within one week. Est. cost, \$750,000.

BENICIA, Solano Co., Cal. — Shell Oil Co., authorized by city council to establish a distributing plant adjoining the present quarters in East Fifth street. A site 80x50 feet will be improved.

Preparing Working Drawings.
WAREHOUSE Cost, \$100,000
LOS ANGELES, Fourth and Alameda Streets.

Five -story and basement reinforced concrete warehouse.
 Owner—Bekins Van and Storage Co., 2690 Geary St., San Francisco.
 Architect—F. Eugene Barton, Crocker Bldg., San Francisco.

Contract Awarded.
LAUNDRY Cost, \$10,000
SAN MATEO, San Mateo Co., Cal.
 No. 719 Woodside Avenue.
 One-story frame and stucco laundry.
 Owner — Superior Service Laundry (Theo. Reyerson, Mgr.), 719 Woodside Ave., San Mateo.

Architect—Not Given.
 Contractor—Crane Co., 61 New Montgomery St., San Francisco.
 Building will house new machinery, including water softener and purifying plant.

Plans Being Figured.
PACKING PLANT Cost, \$100,000
SANTA PAULA, Ventura Co., Cal.
 Two-story and basement reinforced concrete packing plant (100x250 feet).

Owner—Mupu Citrus Association
 Architect—Roy C. Wilson, 112 S. Mill St., Santa Paula.
Excavation—Rudock Griffiths Co.
Steel—Consolidated Steel Corp., Los Angeles.

Contract Awarded.
ADDITION Cost approx. \$4,000
HAYWARD, Alameda Co., Cal. Grand and C Streets,
 Corrugated iron addition to plant.
 Owner—Poultry Producers of Central California, Grand and C Streets, Hayward.
 Architect—Eng. Dept. of Owner (Mr. Kruger, engineer).
 Contractor—Clyde Schwartz, Redwood and Castro Valley Road, Hayward

GARAGES AND SERVICE STATIONS

Plans Being Figured.
SERVICE STATION Cost, \$—
SAN FRANCISCO, Eighth Ave. and Fulton Street.

Service station.
 Owner—Weishein Brothers & Co., 582 Market St., San Francisco.
 Plans by Eng. Dept. of Lessee.
 Lessee—Shell Oil Co., Shell Oil Bldg., San Francisco
 As previously reported, wrecking awarded to Symon Bros. Wrecking Co 1435 Market St., San Francisco.

Sub-Contracts Awarded.
AUTO AGENCY Cont. Price, \$15,996
SACRAMENTO, Sacramento Co., Cal.
 NE Twenty-second and Y Streets (120x150 feet)
 One-story brick Ford automobile agency.

Owner — Ellsworth Harrold, 712 12th St., Sacramento.

Architect—Chas. F. Dean, California State Life Bldg., Sacramento.
 Contractor—Guth & Fox, 1520 27th St., Sacramento.

Excavation & Grading—I. J. Renetti, 2921 C St., Sacramento.

Concrete Work—Frank Harkin, 1616 7th St., Sacramento.

Rock, Sand and Cement—Construction Material Co., 24th and North B Sts., Sacramento.

Brick Work—W. J. Clifford, 2815 S St., Sacramento.

Sheet Metal—Gibson Sheet Metal Works, 2905 E St., Sacramento.

Lumber—Dolan Bldg. & Material Co., 31st and P Sts., Sacramento.

Plaster—V. Norcia, 3120 Fifth Ave., Sacramento.

Painting—R. L. Leamon, 1109 Santa Barbara Way, Sacramento.

Steel Sash and Reinforcing Steel—Geo. C. Smith, 1309 J St., Sacramento.

Structural Steel and Miscellaneous Iron—Geo. C. Smith, 1309 J St., Sacramento.

Master Pave Floor—Rivetta Carpet Works, 2300 Y St., Sacramento.

Hardware—Murray & Low, 721 J St., Sacramento.

Electrical Work and Electrical Fixtures—J. W. Thomas, 3216 L St., Sacramento.

Tile Work—Fischer Tile Co., 1219 J St., Sacramento.

Bids Opened.
AUTO SALES BLDG. Cost, \$7,000
SAN FRANCISCO, Mission St. near Ney Street.

One and two-story steel frame and reinforced concrete auto sales and service building.

Owner—W. E. Street, 251 Magellan Ave., San Francisco.
 Architect—Irving & Ehbets, Call Bldg. San Francisco.

Following is a complete list of bids received:
 William Spivock, Hobart Bldg., San Francisco \$52,915
 Peter Sartorio 54,262
 F. J. Reilly 56,743
 Young & Horstmeyer 57,943
 Reavey & Spivock 58,580
 G. P. W. Jensen 59,600
 T. B. Strand 59,980
 Jacks & Irvine 60,000
 Buschke & Johnson 61,392
 Wm. Martin 62,700
 L. M. Bruce 64,663
 John Bjorkman 65,768
 Sorensen-Haggmark 68,900

Bids held under advisement. Contract will probably be awarded to lowest bidder.

GOVERNMENT WORK AND SUPPLIES

Low Bidder.
QUARTERS Cost, \$—
FORT SHAFTER, T. H. Wheeler Field, Schofield Barracks.
 Quarters for married and bachelor officers, including all grading and utilities.

Owner—U. S. Government.
 Plans by Department Quartermaster Construction Division, Ft. Shafter, Honolulu, T. H.

Low Bidder—Ralph E. Woolley, Honolulu, at \$76,918.

A complete list of bids on this project will be published shortly.

SAN FRANCISCO.—See "Machinery and Equipment," this issue. Bids wanted to furnish and deliver four heavy duty tractors; one industrial tractor and one tiering lifting truck.

JUNEAU, Alaska—Berger Mfg. Co., Canton, Ohio, at \$3,400 submitted low bid to Supervising Architect, Treasury Department, Washington, D. C., for vault equipment for Territorial Building at Juneau, Alaska. Other bids: Art Metal Construction Co., Washington, D. C., \$4,014; Jamestown Metal Equipment Co., Jamestown, N. Y., \$5,655; Globe-Wernicke Co., Washington, D. C., \$5,672. Taken under advisement.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Department Office, 100 Harrison St., San Francisco:

Bids Close Feb. 17

San Francisco, 2160 ft. water pipe, cast iron; sch. 5132.

Bids Close Feb. 24

Western yards, hinges; sch. 5048.
Mare Island, 6,000 lbs. manganese lionleats; sch. 5060.

Seattle, 1 stationary upright head drill; sch. 5661.

Mare Island, 25,000 ft. garden water hose; sch. 5556.

San Francisco, 1 motor driven plate bending rolls machine; sch. 5064.

Puget Sound, 265 lbs. brass washers; sch. 5041.
Western yards, 1460 qts. fire extinguishing liquid and 510 fire extinguisher charges; sch. 4919.

San Francisco, 1 electric generator; sch. 5067.

Mare Island and Puget Sound, steering gears; sch. 5056.

Bids Close March 3

Mare Island and Puget Sound, motor generators, panels, and spares; sch. 5087.

Mare Island, 40 prs. hand irons; sch. 5083.

Mare Island, 15,000 lbs. sweeping compound; sch. 5092.

San Pedro, transmitters and indicators, electro-chronometric type; sch. 5085.

San Diego, 1 motor driven screw machine; sch. 5104.

San Diego, 1 motor driven steel squaring shear machine; sch. 5105.

San Diego, 1 filing machine; sch. 5106.

San Diego, one motor driven metal cutter nibbling machine; sch. 5108.

WASHINGTON, D. C.—Until February 24, bids will be received by Department of State, Division of Foreign Buildings, Washington, D. C., for special lighting fixtures for the U. S. embassy, Tokio, Japan: fixtures to be inspected at the factory and sent to U. S. dispatch agent, 45 Broadway, N. Y. City, or San Francisco for transmission to Japan. Specifications and further information obtainable from above.

MARE ISLAND, Cal.—Until March 4, under Specification No. 6309, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish and install an elevator shaft and lobby at the Navy Yard Hospital, Mare Island, Calif. The shaft and lobby will be built on the exterior of the building extending from the ground floor to the roof with the openings at 5 floors. The work involves excavation, concrete work, steel framing, hollow tile, stucco, wood roof framing, the roofing, electric work and heating. Deposit of \$10 required for plans obtainable from Bureau or from the

Commandant at Mare Island Navy Yard.

MARE ISLAND, Cal.—Until March 4, under Specification No. 6311, bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish and install one automatic electric passenger elevator complete at the Navy Yard Hospital, Mare Island. Deposit of \$10 required for plans, obtainable from the Bureau of the Commandant at the Mare Island Navy Yard. Following firms have taken out plans for this work at Washington, D. C.:

Shepard Elevator Co., Cincinnati.
Otis Elevator Co., Washington.
Kimball Bros. Co., Council Bluffs, Iowa.
Heller Elevator Co., Milwaukee, Wisconsin.
Moffatt Machinery Mfg. Co., Charlotte, N. C.
Warner Elevator Mfg. Co., Cincinnati.

SAN FRANCISCO.—Until February 24, 10 A. M., under Schedule No. 928-21-204, bids will be received by Quartermaster Supply Office, General Depot Fort Mason, to furnish and deliver: 600 ft. armored rubber cable, 3 conductor, No. 10 gauge, stranded, cut in 100-ft. lengths; equal and similar to "Tirex."

TUCSON, Ariz.—U. S. Veterans' Bureau, Washington, D. C., will advertise for bids about February 16 for the construction of a 100-bed addition to the Veterans' Hospital in Tucson. Cost, \$275,000.

Plans Being Figured—Bids Close Mar. 2, 2:30 P. M.

BUILDING.—Cost, \$—
TUCSON, Arizona.—Erect Patients' Building with connecting arcade and one dining room extension to Building No. 3 at Veterans' Hospital, including roads, walks, grading and drainage.
Owner—U. S. Government.
Plans by Construction Division, U. S. Veterans' Bureau, Arlington Bldg., Washington, D. C.

Plans obtainable from the U. S. Veterans' Bureau at Washington on deposit of \$25, returnable, checks or money orders for same to be made payable to the Treasurer of the U. S.

MARCH FIELD, Riverside, Calif.—Until 11 A. M., February 19, bids will be received by Col. W. C. Gardenhire, constructing quartermaster, March Field, for the installing of plumbing, heating and air lines in machine shop, air corps supply and hangars at March Field. Plans and specifications may be obtained from the constructing quartermaster upon deposit of \$10 and are on file for examination at the office of Southwest Builder and Contractor, 158 S. Hill St., Los Angeles. Work includes the installation of 15 toilets, 12 lavatories, 10 drinking fountains, 5 urinals, water piping, air piping, 45 gas-steam radiators, etc.

SAN FRANCISCO.—Until February 18, 11:00 A. M., under Specification No. 6418, bids will be received by District Public Works Officer, Twelfth Naval District, 100 Harrison St., to install bell ringing transformer, bell push button and buzzers at District Staff Headquarters, 5th floor, 100 Harrison St. Plans obtainable from above on deposit of \$10, checks or money orders for same to be made payable to Chief of the Bureau of Yards and Docks.

SAN DIEGO, Cal.—Until 11 A. M., March 5, bids will be received by the Public Works department of the Eleventh Naval District, San Diego,

for the construction of barracks at the Naval Operating Base, San Diego. Specification No. 6418. Work includes plain and reinforced concrete; brick and hollow tile work; steel and iron work; tile and built-up roofing; sheet metal work; plaster; stucco; wood framing, sash, doors, screens and finish; terrazzo floors and base and tile wainscot, hardware; glazing; painting; plumbing; heating; steam, water, gas and sewer piping; and electrical work. Bidding data may be obtained from the Commandant, Headquarters, Eleventh Naval District, San Diego, upon deposit of \$30, to be made payable to the Chief of the Bureau of Yards and Docks DeWitt C. Webb, public works officer.

Working Drawings Being Prepared.
FEDERAL BLDG.—Cost \$5,000,000
PORTLAND, Oregon.—Madison, 6th, Main and Broadway Sts.
Six-story and basement class A Federal building housing courts, post-office department and offices.
Owner—U. S. Government.
Architect—Morris H. Whitehouse and Associates, 111 Wall & Exchange Bldg., Portland.

Preliminary plans have been approved and it is expected that bids on the foundation work may be asked within four months.

SAN FRANCISCO.—J. E. Rodgers, 110 Sutter St., San Francisco, at \$2300 awarded contract by Architect Wm. A. Newman, Post Office Bldg., for furnishing all labor and materials and performing all work for test borings on the site of the United States Federal Office Building at San Francisco.

REDLANDS, San Bernardino Co., Cal.—An appropriation of \$170,000 for construction of a new post office in Redlands is included in the emergency building bill now before the Senate.

MARCH FIELD, Riverside Co., Cal.—Until 11 A. M., February 19, bids will be received by Col. W. C. Gardenhire, constructing quartermaster March Field, for plastered ceilings new annexes and tile partitions in hangar buildings at March Field. Plans and specifications may be obtained from the constructing quartermaster upon deposit of \$10 and are on file for examination at the office of Southwest Builder and Contractor, 158 S. Hill St., Los Angeles. Suspended plastered ceilings are to be installed on steel channels and post office in Redlands is included in the emergency building bill now before the Senate.

MARCH FIELD, Riverside, Calif.—Until 11 A. M., February 19, bids will be received by Col. W. C. Gardenhire, constructing quartermaster, March Field, for installing power and high wiring in machine shop, area repair shop, aero supply and 7 hangars at March Field. Plans and specification may be obtained from the constructing quartermaster upon deposit of \$10 and are on file for examination at the office of Southwest Builder & Contractor, 158 S. Hill St., Los Angeles.

HOSPITALS

Spring Preliminary Plans
ITION Cost, \$60,000
 E. Amador Co., Cal.
 (tional units at Preston State
 School of Industry (part class C
 concrete and part frame construction).
 er—State of California.
 itect—R. G. De Lappe, 1710
 Franklin St., Oakland.

FRESNO, Fresno Co., Cal.—Until
 ury 27, 3 P. M., bids will be re-
 eived by D. M. Barnwell, county
 clerk, for remodeling the present York
 (gering system and the installa-
 of brine refrigerated refrigeration
 in the County General Hospital.
 fied check or bidder's bond 10%
 red with bid. Specifications on
 in office of clerk.

liminary Plans Awaiting Approval.
HOSPITAL Cost, \$65,000
FRANCISCO, Ocean Ave. and
Alamany Blvd.
 -story Class A reinforced concrete
 emergency hospital.
 er—City and County of San Fran-
 cisco.
 itect—Bureau of Architecture,
 has, Sawyer, chief, City Hall.
 liminary plans are now in the
 s of the Board of Health and
 approval working drawings will
 (urted

RSON CITY, Nevada.—Assembly
 mitted on State Prison and In-
 Asylum contemplates a \$50,000
 npration for which \$20,000 would
 ed the second floor of the asylum
 \$5000 for furnishings, the remain-
 \$25,000 to finance erection of a
 residence for the superintendent.

Opened.
TAGE Cost, \$25,000
KTON, San Joaquin Co., Calif.
 State Hospital Grounds.

-story reinforced concrete cottage
 or employees (floor area 6,700 sq.
 t).
 er—State of California.
 itect—State Department of Pub-
 lic Works, Division of Architect-
 ure, Geo. E. McDougall, state ar-
 chitect, Public Works Building,
 Sacramento.

ll have wood partitions, floor and
 construction and tile roof.
 lrawing is a complete list of the
 received.

General Work
 el Eyre, Tracy.....\$13,339
 Minton Co., Mt. View.....20,287
 Nelson, Stockton.....20,495
 and Dager, Sacramento.....21,703
 Betz, Sacramento.....21,800
 ert Bros., Oakland.....22,249
 H. Smith.....25,152
 d T. Fisher.....25,390

Electrical Work
 Electric & Mfg. Co., 125 W
 Main St., Stockton.....\$1,221
 Electric Co., Stockton.....1,493
 Gnekow, Stockton.....1,519
 is Elec. Co., Stockton.....1,549

Plumbing and Heating
 Black, 721 W Elm Street,
 Stockton.....\$6,600
 Gnekow, Stockton.....6,833
 Gibson, Stockton.....7,145
 Co., San Francisco.....7,437
 H. Bros., Stockton.....7,571
 T. Dow, Oakland.....7,992

Mechanical Work Complete
 Gnekow, 647 E Main St.,
 Stockton.....\$8,317
 s held under advisement.

FRANCISCO—L. Flatland, 1899
 on St., at \$25,000 for work
 according to plans and speci-
 fications, omitting elapsed time record-
 er's paging system and cen-
 ed radio system, awarded con-

tract by Board of Public Works for
 electric work in connection with roof
 ward additions to the San Francisco
 Hospital. A complete tabulation of
 bids received published in issue of
 February 5.

Prospective Bidders.
HOSPITAL Cost, \$250,000
 (1st unit, \$56,000)
COLUSA, Colusa Co., Cal. County
Hospital Grounds.

One and two-story reinforced concrete
 hospital (1story wing and 2-story
 administration building).
 Owner—County of Colusa.

Architect—Otto Delchmann, 110 Sut-
 ter St., San Francisco.

Only the first unit, having a 24-bed
 capacity, will be undertaken at this
 time. The structure, when completed,
 will have a capacity of 100 beds; \$25
 deposit required for plans.

Following contractors will submit
 bids:

George W. Anderson, 638 Arimo
 Ave., Oakland.

Campbell Constr. Co., 800 R St., Sacra-
 mento.

Wm C. Keating, Forum Bldg., Sacra-
 mento.

R. W. Littlefield, 337 17th St., Oak-
 land.

David Paganini, 513 California St.,
 San Francisco.

J. P. Brennan, Zeis Bldg., Redding

Ralph McLeeran Co., Hearst Bldg.,
 San Francisco.

Fred H. Betz, 1017 43rd St., Sacra-
 mento.

W. J. Shalz, 3445 Woodland Ave.,
 Chico.

Lindgren & Swinerton, Inc., Califor-
 nia State Life Bldg., Sacramento.

Azevedo & Sarmento, 920 O St.,
 Sacramento.

Bids are to be opened Feb. 17, at
 2 P. M.

Sub-Contracts Awarded.
KITCHEN, ETC. Cost, \$172,740
BERKELEY, Alameda Co., Cal.

One-story reinforced concrete kitchen
 and commissary building and two-
 story reinforced concrete boys'
 and girls' dormitory.

Owner—State of California.

Architect—George E. McDougall, state
 architect, Public Works Building,
 Sacramento.

Contractor—Menson Bros., 475 6th St.,
 San Francisco.

Kitchen and dormitory building will
 have tile partitions, steel and wood
 roof construction and tile roof; total
 floor area 14,000 sq. ft.

Boys' and girls' dormitory will have
 tile partitions, wood roof construction
 and the roof; total floor area 42,700
 sq. ft.

Grading—A. Baker, Burlingame.

Reinforcing Steel and Steel Sash—
 Stone Steel Co., Rialto Bldg., San
 Francisco.

Millwork—Sunset Mill & Lumber Co.,
 400 High St., Oakland.

As previously reported plumbing,
 heating and ventilating awarded to G.
 A. Schuster, 3712 Grove St., Oakland,
 \$35,791; electrical work to Geo. Woolf,
 795 Alcatraz Ave., Oakland, \$3190.

OROVILLE, Butte Co., Cal.—J. F.
 McDonald, superintendent of the
 county infirmary, authorized by coun-
 ty supervisors to install hot water

POSITION WANTED

STENOGRAPHER Bookkeeper,
 desires position with Architect or
 Contractor. Experienced in Build-
 ing Construction, General Con-
 tracting and Architectural Work.
 Phone Fillmore 7211—Miss Madden

system in surgery building and pur-
 chase a refrigeration system for the
 infirmary unit.

SAN FRANCISCO.—Following bids
 received by Leonard S. Leavy, city
 purchasing agent, under Proposal No.
 645, to furnish and deliver 100 hospital
 beds for the Laguna Honda Home:

Bernhards	Each	\$15.50
D. N. & E. Walter Co.....	16.30	
*American Surgical Sales Co.....	16.75	
W. & J. Sloane.....	16.95	
Walters Surgical Co.....	18.00	
Colson Co. of the Pacific.....	20.75	
*American Surgical Sales Co. (Rome Bed Co.) submitted alternate bid of \$15.25 with coil spring, add \$1.10 and \$16.70 with coil spring add \$1.		

FRESNO, Fresno Co., Cal.—Until
 February 27, 2:30 P. M., bids will be
 received by D. M. Barnwell, county
 clerk, for painting the Fresno County
 Courthouse. Certified check or bid-
 der's bond 10% required with bid.
 Specifications on file in office of the
 clerk.

HOTELS

Preparing Plans.
HOTEL Cost, \$200,000
POMONA, Los Angeles Co., Cal. 15
 acre site San Jose Hills.

Two and three-story steel and rein-
 forced concrete hotel (100 rooms
 and baths).

Owner—California Realty Investment
 Corp., Broadway Arcade Bldg.,
 Los Angeles.

Architect—William Mosser Co., Santa
 Barbara and Nevada Bank Bldg.,
 San Francisco.

Bids will be taken in about six
 weeks.

Preliminary Plans Being Prepared.
HOTEL Cost, \$80,000
SAN MATEO, San Mateo Co., Cal.

NE Sixth Ave. and B St.

Five-story steel frame and concrete
 hotel (60 rooms) (51x110 feet).

Owner—E. C. Lydon, Beresford
 Country Club, San Mateo.

Architect—Edwards & Schary, 605
 Market St., San Francisco.

Will have three store rooms and a
 coffee shop on the ground floor and a
 total of 60 hotel rooms on the upper
 floors.

Contracts Awarded.
ALTERATIONS Cost, \$8000
BERKELEY, Alameda Co., Cal. No.
 2335 Telegraph Avenue.

Alterations to four-story Class C
 hotel.

Owner—Hotel Carlton, Premises.

Architect—Leonard H. Ford, 1435 Har-
 rison St., Oakland.

Carpenry—C. W. Reed, 2534 Pleasant
 Ave., Fruitvale.

Plumbing—W. A. Griffiths, 3316 Tele-
 graph Ave., Oakland.

Painting—H. W. Bowers, Oakland.

Other awards will be made shortly.

ICE AND COLD STORAGE PLANTS

OLIVE, Orange Co., Cal.—York Ice
 Machinery Corp., 5051 Santa Fe Ave.,
 Los Angeles (LA 0187), has been
 awarded contract at \$74,500 for erec-
 tion of a citrus storeroom plant in
 Olive for Olive Heights Citrus Assn.,
 B. H. Cole, manager. General con-
 struction of the building has been
 sublet to J. W. Markel & Sons, 214
 Builders' Exchange Bldg., Santa Ana.
 It will be two stories and basement
 in height, and will contain 9 rooms,
 each with a storage capacity of 7
 cars; 1200 sq. ft. of floor space will

be provided. Reinforced concrete walls, mill type interior construction, composition roofing, plastered exterior, cork insulation, air circulation for precooling and brine spraying system.

POWER PLANTS

TULARE, Tulare Co., Cal.—Tulare Public Utilities Board will call a mass meeting in the immediate future to the construction of a municipal power plant. At a recent meeting with the secure the sentiment of the voters in Utilities Board, representatives of the Modesto Irrigation Dist., the Southern California Edison Co. and the Pasadena Municipal Lighting plant, expressed their views on such a project. It is estimated that \$3,000,000 would be required for the project, for which a bond issue would be necessary.

SEATTLE, Wash.—Aluminum Corp. of America, at \$77,155.40 submitted low bid to Board of Public Works to construct 736 miles of the Diablo-Seattle transmission line. Anaconda Wire and Cable Co. only other bidder at \$921,961.40. The bids have been taken under advisement pending a study by the city engineer and municipal lighting department of the relative merits of aluminum and copper transmission wire.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Commissioned To Prepare Plans.
ARMORY Cost, \$25,000
YUBA CITY, Sutter Co., Cal.
Armory.

Owner—State of California.
Architect—Chas. F. Dean, California State Life Bldg., Sacramento.

Plans Being Prepared.
ALTERATIONS Cost, \$5000
BAKERSFIELD, Kern Co., Cal.
Alterations at courthouse for county grand jury rooms and offices.
Owner—County of Kern, F. E. Smith, county clerk.
Architect—E. J. Symmes, Haberfelde Bldg., Bakersfield.

LOS ANGELES, Cal.—Superior court judges have adopted a resolution urging the Los Angeles County Supervisors to take immediate steps toward the construction of a new courthouse to provide at least 100 courts. The supervisors have on several occasions considered plans for a new building to be erected on the west side of Broadway, between First and Temple Sts., at a cost of \$10,000,000.

Prospective Bidders.
LIBRARY Cost, \$—
OLDALE, Kern Co., Cal.
One-story brick branch library, 60x 27-ft.; tile roof.
Owner—County of Kern, F. E. Smith, county clerk.
Architect—Edwin J. Symmes, Haberfelde Bldg., Bakersfield.

Spanish type of architecture, brick construction, plaster exterior, tile roofing, wood and cement floors, etc.
Following contractors have secured plans:
August Zimmerman, Rt. No. 1, Box 116-S, Bakersfield.
Preston Paynter, 1801 Palm Street, Bakersfield.
Peterson & Elssler, Bakersfield.
Frank A. Greenough, 130 Lincoln St., Bakersfield.
Clark Gramling, 1669 1/2 Chester Ave. Bakersfield.
F. L. Gribble, 1204 17th St., Bakersfield.

Bids are to be opened Feb. 24th, 11 A. M.

SACRAMENTO, Cal.—Until February 26, 10:00 A. M., bids will be received by Harry W. Hall, county clerk to furnish and install furniture and equipment in office of county clerk Certified check or bidder's bond 10% required with bid. Specifications on file in office of clerk.

RESIDENCES

Contract Awarded.
ALTERATIONS Cost, \$5000
MENLO PARK, San Mateo Co., Cal.
Oak Grove.
Alterations and additions to residence, etc.

Owner—Wm. White, Oak Grove Ave., Menlo Park.
Architect—Henry C. Smith and R. R. Williams, Humboldt Bank Bldg., San Francisco.

Contractor—J. W. Cobby & Son, 266 Tehama St., San Francisco.
Contract awarded on cost plus basis

Preparing Plans.
RESIDENCE Cost, \$10,000
SAN FRANCISCO, Marina District.
Two-story and basement frame and stucco residence.
Owner—F. Rathjens, 1327 Pacific Ave.
Architect—Henry C. Smith and A. R. Williams, Humboldt Bank Bldg.

Contract Awarded—Sub-Bids Being Taken.
RESIDENCE Cost Approx. \$40,000
MONTEREY, Monterey Co., Cal.
Two-story and basement frame and stucco residence (12 rooms).
Owner—A. F. Eingall.
Architect—Williams & Wastell, 274 17th St., Oakland.
Contractor—F. C. Stolte, 3449 Laguna St., Oakland.

Sub-Bids Being Taken.
RESIDENCES Cost each, \$6000
SAN FRANCISCO, W. Cayuga South Santa Rosa Ave.
Two one-story and basement frame and stucco residences.
Owner and Builder—A. A. Wesendorf, 1625 San Jose Ave.
Plans by R. K. Dobkowitz, 425 Monterey Blvd.

Contract Awarded.
RESIDENCE Cost, \$7000
OAKLAND, Alameda Co., Calif. 3165 Sheffield St.
One-story frame and stucco residence (5 rooms and garage).
Owner—V. Brown, 5th Ave. and E 14th St., Oakland.
Architect—Not Given.
Contractor—Fred Hambleton, 1005 Chatham Road, Oakland.

Bids Opened.
RESIDENCE Cost, \$—
SACRAMENTO, Sacramento Co., Cal.
Two-story and basement frame and stucco residence (10 rooms and 3 baths).
Owner—J. L. Mayden, Sacramento.
Architect—Starks & Flanders, Forum Bldg., Sacramento.

Following is a complete list of bids:
Azevedo & Sarmiento, 920 O St., Sacramento.....\$15,200
Lindgren and Swinerton, Inc., Sacramento.....15,300
C. J. Hopkins, Sacramento.....15,556
Chas. Unger, Sacramento.....15,778
George Kopp, Sacramento.....16,290
W. E. Truesdale, Sacramento.....16,744
P. F. Bender, Sacramento.....17,641
Bids held under advisement.

Completing Plans.
BUNGALOW Cost, \$3000
MILLBRAE HIGHLANDS, San Mateo Co., Cal.
One-story and basement frame and stucco bungalow (6 rooms).
Owner & Builder—Arne Arneson, 195 Lowell St., San Francisco.

Architect—Charles Strothoff, 2274 16th St., San Francisco.

Sub-bids will be taken in one week Gas heating system. Tile wainscoting in bath and kitchen, part tile roof.

Sub-Bids Being Taken.
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co., Ca
Two-story and basement frame and stucco residence (9 rooms and baths).

Owner—Lee J. Sneath, 303 El Portal San Mateo.
Architect—Farr & Ward, 68 Post St San Francisco.
Contractor—Buschke & Johnson, 2 3rd Ave., San Mateo.
Shakes roof, electric heating system.

Contract Awarded.
RESIDENCES Cost, \$85
BURLINGAME PARK, San Mateo Co.
Two two-story and basement frame and stucco residences.
Owner—Dr. Wade Macomber et al.
Architect—J. J. Mitchell, 269 Pl St., San Francisco.
Contractor—H. F. Coykendall, Box 1 Redwood City.

Contract Awarded.
RESIDENCE Cost, \$60
ALAMEDA, Alameda Co., Cal. 1 3231 Fernside Blvd.
One-story and basement frame and stucco residence (6 rooms).
Owner—W. E. Rose, 68 Garden Rd Bay Farm Island.
Plans by Owner.
Contractor—W. E. Rose, 68 Garden Road, Bay Farm Island.

Completing Plans.
ALTERATIONS Cost approx. \$15,000
SAN FRANCISCO, Pacific Ave. 1 Presidio Ave. and Walnut St.
Alterations to residence.
Owner—Ralph Lyon.
Architect—Warren Perry, 260 California Street.
Bids will be asked in one week.

Construction Postponed Indefinitely.
RESIDENCE Cost, \$20,000
SAN MATEO, San Mateo Co., Cal. Hillsborough Park.
Two-story and basement frame and stucco residence.
Owner—Dr. A. Houston.
Plans by Grimes & Schoening, Fevich Bldg., San Mateo.

Contract Awarded.
RESIDENCE Cost, \$1—
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and stucco residence (9 rooms and baths).
Owner—Lee J. Sneath, 303 El Portal San Mateo.
Architect—Farr & Ward, 68 Post St San Francisco.
Contractor—Buschke & Johnson, 2 3rd Ave., San Mateo.
Shakes roof, electric heating system.

Owner Taking Bids.
RESIDENCE Cost, \$100
ATHERTON, San Mateo Co., Cal.
Two-story and basement frame and stucco residence (8 rooms and baths).

Owner—Joseph Kurzman, 88 S 4th Ave., San Francisco.
Plans by Grimes & Schoening, Fevich Bldg., San Mateo.
Owner is taking bids on general contract and segregated bid basis

Preparing Preliminary Sketches.
RESIDENCE Cost, \$5,000
PIEDMONT, Alameda Co., Cal.
Two-story and basement frame and stucco residence.
Owner—Name Withheld.
Architect—F. Eugene Barton, Oakland Bldg., San Francisco.

Contract Awarded.
RESIDENCES Cost, \$30,308
THEITON, San Mateo Co., Cal.
 Quilota Tract.
 wo two-story and basement frame
 and stucco residences.
 wner—Amy R. Bachman.
 rchitect—John White, Russ Bldg.,
 San Francisco.
Contractor—Oscar L. Cavanaugh, 432
Occidental Ave., San Mateo.

Plans Being Prepared.
RESIDENCE Cost, \$30,000
STOCKTON, San Joaquin Co., Cal.
 Oxford Manor.
 wo-story and basement brick veneer
 residence (8 rooms, 2 baths; tile
 roof).
 wner—Peter Maringo, 45 W. Maple
 St., Stockton.
 rchitect—Joseph Losekann, 1218 W.
 Harding St., Stockton.
 Plans will be ready for bids in about
 wo weeks.

Sub-Bids Being Taken.
RESIDENCES Cost, \$4,000 each
AN FRANCISCO. Location With-
 held.
 hree one-story and basement frame
 and stucco residences (5 rooms
 each)
 wner and Builder—F. Isaacson, 643
 Joost Ave., San Francisco.
Plans by B. K. Dobkowitz, 425 Mon-
terey Blvd., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$4,000
AN FRANCISCO. Location With-
 held.
 ne-story and basement frame and
 stucco residence (5 rooms)
 wner and Builder—Peter Andersen,
 2471 26th Ave., San Francisco.
Plans by B. K. Dobkowitz, 425 Mon-
terey Blvd., San Francisco.

Contract Awarded.
RESIDENCES Cost, \$14,000 each
AN FRANCISCO. E Lake St. S
 Camino Del Mar.
 wo two-story and basement frame
 and stucco residences.
 wner—Allen & Co., Inc., 163 Sutter
 St., San Francisco.
Architect—Hanan and Appleton, 68
Post St., San Francisco.
Contractor—Jacks & Irvine, 74 New
Montgomery St., San Francisco.

Preparing Preliminary Plans.
RESIDENCES Cost, \$12,500 each
BERKELEY, Alameda Co., Cal.
 Claremont Pines.
 wo two-story and basement frame
 and stucco residence (7 rms. each)
 wner—Withheld.
Architect—E. L. Snyder, 2101 Shat-
tuck Ave., Berkeley.

Preparing Sketches.
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Cal. Location Withheld.
 wo-story and basement frame and
 stucco residence (7 rooms).
 wner—Withheld.
Architect—E. L. Snyder, 2101 Shat-
tuck Ave., Berkeley.

Now Bidding.
RESIDENCE Cost, \$—
AN FRANCISCO. St. Francis Wood
 wo-story and basement frame and
 stucco residence (9 rooms).
 wner—Dr. S. J. Humkin, 1155 Bush
 St., San Francisco.
Architect—Henry H. Gutterson, 526
Powell St., San Francisco.
Now Bidder—G. P. W. Jensen, 320
Market St., San Francisco.

Construction Postponed Indefinitely.
RESIDENCE Cost, \$12,000
OAKLAND, Alameda Co., Cal. Oak
 Knoll.
 Two-story and basement frame and
 stucco residence (9 rooms and 3
 baths).
Owner—J. B. Graves.
Plans by H. K. Jensen, 354 Ilbort
St., Oakland.

Sub-Figures Being Taken.
RESIDENCE Cost, \$4,500
OAKLAND, Alameda Co., Cal. Dia-
 mond District.
 One-story and basement frame and
 stucco residence (5 rooms).
Owner and Builder—F. S. Taylor, Hop-
kings and Maple Sts., Oakland.
Plans by L. F. Hyde, 372 Hanover St.,
Oakland.

Sub-Figures Being Taken.
RESIDENCE Cost, \$4,000
OAKLAND, Alameda Co., Cal. Ma-
 dera Avenue.
 One-story and basement frame and
 stucco residence (5 rooms).
Owner and Builder—Fred Langbehr,
Madera Ave., Oakland.
Plans by L. F. Hyde, 372 Hanover St.,
Oakland.

Bids Opened.
RESIDENCE Cost, \$6,000
STOCKTON, San Joaquin Co., Calif.
 Driscoll Avenue.
 Two-story frame and stucco residence
 (6 rooms).
Owner—H. F. Ahearn, Bank of Italy
Bldg., Stockton.
Architect—Victor Galbraith, Elks
Bldg., Stockton.

Following is a complete list of bids:
T. E. Williamson, 1859 W Park
Ave., Stockton.....\$5,950
J. B. Leighton, Stockton.....5,999
John Hackman, Stockton.....6,250
H. C. Vickroy, Stockton.....6,283
M. Oratt, Stockton.....6,285
John Cavanaugh, Stockton.....6,407
George Roek, Stockton.....6,685
 Bids held under advisement.

Plans Being Figured.
SORORITY HOUSE Cost, \$25,000
BERKELEY, Alameda Co., Cal. Pied-
 mont Avenue.
 Three-story and basement frame and
 stucco sorority house (22 rooms).
Owner—Alpha Delta Pi, Berkeley.
Architect—E. L. Snyder, 2101 Shat-
tuck Ave., Berkeley
Walter Sorensen, 2940 Piedmont
Ave., Oakland.
Beckett & Wight, 722 Scenic Ave.,
Berkeley.
H. J. Schultz.
Contractor—C. J. Pfang, 6300 Clare-
mont Blvd., Berkeley.

Sub-Contracts Awarded.
RESIDENCE Cost approx. \$20,000
SANTA CRUZ, Santa Cruz Co., Cal.
 Two-story and basement frame and
 stucco residence.
Owner—Dr. Percy Phillips, 286 Wal-
nut St., Santa Cruz.
Architect—W. H. Weeks, 111 Sutter
St., San Francisco.
Contractor—The Minton Co., Ml. View
Plumbing and Sheet Metal—Isant &
Wilson, 30 Water St., Santa Cruz.
Electric Wiring—Carroll & Searle, 231
Front St., Santa Cruz.
Iron Work—San Jose Iron Works, 535
W San Carlos St., San Jose.
Painting—Mortensen Bros., 453 At-
lanta St., San Jose.
Tile—Santa Cruz Tile Co., 153 Lorent
St., Santa Cruz.
Excavation—Leo Cardwell Const. Co.,
530 Pacific Ave., Santa Cruz.
Finish Hardware—Byrne Bros., 46 Pa-
cific Ave., Santa Cruz.

Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$7335
AGNEWS, Santa Clara Co., Cal. State
 Hospital.
 Two-story and basement frame and
 stucco residence.
Architect—Geo. B. McDougall, State
Architect, Public Works Bldg.,
Sacramento.
Electric Wiring—Valley Electric Co.,
Screens and Screen Doors—Hippolito
Co., 4246 Holden St., Oakland.
Painting—J. E. Sevy, 229 Chiquita
Ave., Mountain View.
Tile—Thos H. Price, 80 Vine St.,
San Jose.

Contract Awarded.
ALTERATIONS Cost, \$2669
MONTEREY, Monterey Co., Cal. Pen-
 insula Country Club Property.
 Alterations and additions to res-
 idence.
Owner—R. N. Cuthbert, Carmel.
Architect—Herman Krause, Box 783,
San Jose.
Contractor—A. R. Calvelli and M.
W. Reese, Carmel.

Plans Being Figured.
RESIDENCE Cost, \$25,000
WATSONVILLE, Santa Cruz Co., Cal.
 Two-story and basement frame, stucco
 and brick residence (11 rooms and
 3 baths).
Owner—J. E. Porter, Watsonville.
Architect—A. W. Story, Pajaro Valley
Bank Bldg., Watsonville.

Plans Being Figured—Bids Close Feb
24.
RESIDENCE Cost, \$35,000
WATSONVILLE, Santa Cruz Co., Cal.
 Two-story and basement frame, stucco
 and brick residence (12 rooms and
 4 baths).
Owner—W. E. Cockroft, Watsonville.
Architect—A. W. Story, Pajaro Valley
Bank Bldg., Watsonville

Sub-Bids Being Taken.
RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Cal. Carls-
 ton near Mandana Blvd.
 Two-story and basement frame and
 stucco residence (7 rooms and 3
 baths).
Owner and Builder—M. A. Rose, 2442
Acton, Oakland.
Architect—F. H. Slocombe, 62 York
Drive, Oakland.
 Shingle roof, early California type,
 hot air heating system.

Sub-Bids Being Taken.
RESIDENCE Cost, \$6,500
BURLINGAME, San Mateo Co., Cal.
 Near Hillsborough.
 One-story and basement frame and
 stucco residence (6 rms.; Span-
 ish type).
Owner—Frank Smith.
Architect—F. H. Slocombe, 62 York
Drive, Oakland.
Contractor—Harry Knight, 327 17th
St., Oakland.
 Tile roof, hot air heating system.

Sub-Bids Being Taken.
RESIDENCE Cost, \$8,000
BERKELEY, Alameda Co., Cal. Crag-
 mont Avenue.
 Two-story and basement frame and
 stucco residence (6 rooms and 2
 baths).
Owner—Name Withheld.
Architect—F. H. Slocombe, 62 York
Drive, Oakland.
Contractor—E. J. Hedstrom, care ar-
chitect.
 Spanish type, tile roof, hot air heat-
 ing system.

Preparing Preliminary Plans
RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. Hop-
 kins Terrace.

Two-story and basement frame and stucco residence (6 rooms).

Owner—Withheld.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.

SCHOOLS

Plans Being Figured—Bids Close Feb. 27.

SCHOOL Cost, \$60,000
SANTA MARIA, Santa Barbara Co., Cal. West El Camino St.
Reinforced concrete school.
Owner—Santa Maria City School District, Santa Maria.
Architect—Louis N. Crawford, 8 Gibson Drexel Bldg., Santa Maria.

SAN FRANCISCO—Until March 2, 3 P. M., under Order No. 684, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall to furnish and deliver classroom supplies and paper for the School Department. Specifications obtainable from above.

General Contract Awarded.
SCHOOL Cost, \$—
VISALIA, Tulare Co., Cal.
Reinforced concrete academic building Owner—Visalia Union High School District.

Architect—E. J. Kump Company, Rowell Bldg., Fresno.
Contractor—G. A. Graham, 613 19th St., Bakersfield, \$62,562.

Following is a complete list of bids received, the bids on electric work, plumbing and heating being taken under advisement.

General Contract	
G. A. Graham, Bakersfield.....	\$62,562
R. Hodgson & Son, Porterville.....	65,158
W. J. Clark & Co., Fresno.....	65,624
L. C. Ochs, Visalia.....	68,644
E. R. Lewis, Corcoran.....	69,484
E. J. Heffner, Fresno.....	70,709
Smith & Abbott.....	72,258
W. T. Harris, Fresno.....	73,550
Lindgren & Swinerton, Sacto.....	75,960
Jolly & Harrington, Fresno.....	80,960
Irwin & Hopkins, Fresno.....	80,960

Plumbing	
G. W. Hayes, Visalia.....	\$2,790
B. A. Newman Co., Fresno.....	2,987
Visalia Pibg. Co., Visalia.....	3,082
Rudie Koller, Visalia.....	3,153
Barrett-Hicks Co., Fresno.....	3,187

Heating	
B. A. Newman Co., Fresno.....	\$4,277
Visalia Pibg. Co., Visalia.....	4,675
Rudie Koller, Visalia.....	4,875

Electric Work	
Robinson Elec. Co., Fresno.....	\$ 6,850
Valley Elec. Co., Fresno.....	7,100
Elec. Const. Co., Fresno.....	7,273
Tulare Elec. Co., Tulare.....	7,467
Wayne Sutton.....	10,290

Plans Being Figured—Bids Close Mar 3rd, 8 P. M.

SCHOOL Cost, \$40,000
SANTA CLARA, Santa Clara Co., Cal.
Brick veneer annex to high school.
Owner—Santa Clara School District.
Architect—W. H. Weeks, 111 Sutter St., San Francisco.

This structure will be financed with monies now in the district's Reserve Fund.

Plans Being Completed.
CAFETERIA Cost, \$25,000
YUBA CITY, Sutter Co., Cal. Yuba City High School.

One-story reinforced concrete cafeteria.
Owner—Yuba City Union High School District.
Architect—Chas. F. Dean, California State Life Bldg., Sacramento.

SANTA CRUZ, Santa Cruz Co., Cal.
—Board of Education rejects bids for the sale of the old Gault school buildings and the structures will be razed by force account, the material to be

used in the construction of the manual training building at the new Mission Hill school site. H. R. Lord bid \$213; H. W. Ebert \$200, and Bobier and Thomas, for one small structure, \$41.

Contract Awarded.
SCHOOL Cont. price, \$87,693
RENO, Nevada.
One- and two-story brick and concrete parochial school and parish house.
Owner—St. Thomas Catholic Church, Reno.
Architect—F. J. DeLouchamps, Gazette Bldg., Reno.
Contractor—J. C. Dillard, Reno.

Contract Awarded.
SCHOOL Cost approx. \$300,000
OAKLAND, Alameda Co., Cal. Piedmont Highlands (Edith Street near Morphe).
Group of reinforced concrete high school buildings (academic buildings, auditorium and gymnasium; accommodate 500).
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.
Contractor—James L. McLaughlin, 251 Kearny St., San Francisco.
Buildings will be constructed for the Sisters of The Holy Name. Announcement will be made in a few days.

Contract Awarded.
SCHOOL BLDGS. Cost, \$329,704
LOS ANGELES, Cal. No. 2955 Robertson Blvd.

Brick school buildings (three-story, 44-room, classroom and library, 72x316 feet; two-story, 10-room cafeteria, 90x128 feet; two-story, 13-room physical education, 72x180 feet, and one-story, nine-room shop, 78x156 feet).

Owner—Los Angeles City School District.
Architect—J. C. Austin and F. M. Ashley, Chamber of Commerce Bldg., Los Angeles.

Contractor—Sarver & Zoss, Roosevelt Bldg., Los Angeles.

Plumbing and Heating and Ventilating—Coomy & Winterbottom, \$27,734 and \$22,444 respectively.

Painting—H. J. McKinley, \$10,820.

Commissioned To Prepare Plans.
LIBRARY Cost, \$117,000
CHICO, Butte Co., Cal. State Teachers' College.
Library and classroom building.
Owner—State of California.

Architect—Cole & Brouhard, Fir National Bank Bldg., Chico.

BANKS, STORES & OFFICE

Contract Awarded.
ALTERATIONS Cost, \$—
SAN FRANCISCO, NE California Davis Streets.

Alterations to three-story concrete building (interior work, new partitions, plastering, etc.)
Owner—Libby, McNeil & Libby, Merchants Exchange Bldg.

Plans by Owner.
Contractor—Mullen Mfg. Company, Rausch St.

Plans Being Completed.
OFFICES & SHED Cost, \$—
RENO, Nevada.

Two-story and basement reinforced concrete offices and freight shed Owner—Southern Pacific Railroad Co. 63 Market St., San Francisco.

Plans by Eng. Dept. of Owner.
Whether bids will be taken or is indefinite at this time.

Sub-Contracts Awarded
STORE, ETC. Cost approx. \$40.
SAN LUIS OBISPO, San Luis Obispo Co., Calif.

Three-story steel frame and concrete store offices and apartments.
Owner—John Norton, San Luis Obispo.
Architect—Wm. Mooser Co., Monock Bldg., San Francisco.

Contractor—Theo. Malno, San Luis Obispo.

Lumber and Millwork—Southern Pacific Milling Co., San Luis Obispo.
Brick, Tile and Marble—Faulstich Bros., San Luis Obispo.

Wiring—Chines Electric Co., San Luis Obispo.

Sheet Metal—Union Hardware & Paint Co., San Luis Obispo.

Reinforcing Steel and Steel Sash—Soule Steel Co., Rialto Bldg., San Francisco.

Structural Iron—Schrader Iron Works, 1247 Harrison St., San Francisco.

Glass and Glazing—W. P. Fuller, 301 Mission St., San Francisco.

Metal Lathing and Channels—Reid & Snell, 153 Ross St., San Francisco.

Ornamental Iron Work—Patterson-Koster Iron Works, 280 13th St., San Francisco.

Plastering—Carl Carlson, San Luis Obispo.

As previously reported plumbing heating awarded to E. Payne, San Luis Obispo.

SACRAMENTO, Sacramento Ca.—See "Theatres," this issue.

ORNAMENTAL WIRE AND IRON WORK

IRON WIRE Fence and Gates

TENNIS COURT ENCLOSURES

WIRE SCREENS AND GUARDS

WEST COAST WIRE & IRON WORKS

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Segregated Bids To Be Taken Shortly
BANK Cost, \$200,000
MONTREY, Monterey Co., Cal. Location not selected.

One-story and mezzanine steel frame and concrete bank with tile roof.
 Owner — Monterey County Trust & Savings Bank.
 Architect — H. H. Winner Co., 580 Market St., San Francisco.

Manager of Constr.—Mark Finlayson, Architect.
 Reinforcing steel and reinforced steel bids are in and held under advisement.
 Bids on other portions of the work will be taken soon.

As previously reported, excavation awarded to M. J. Murphy, Carmel.

Bids To Be Taken In One Week.
OFFICES Cost, \$100,000
LONG BEACH, Los Angeles Co., Cal. First St. and Locust Ave.

Two-story and mezzanine floor and basement Class A reinforced concrete offices (60x100 ft.).
 Owner—Long Beach Bldg. & Loan Assn., Long Beach.

Architect—W. Horace Austin, Pacific Southwest Bank Bldg., Long Beach.

Plans Complete.
STORE Cost, \$5000
SAN FRANCISCO. SE 33rd Avenue and Clement St.

One-story frame and stucco store.
 Owners—M. E. and A. Cutler, 5322 Geary St.

Architect—A. H. Larsen, 447 Sutter Street.

SAN JOSE, Santa Clara Co., Cal.—Purity Baking Co. plant, 288 South Market St., operated by Peter Andreuccetti, suffered a \$50,000 fire loss February 9.

Contract Awarded.
NEWSPAPER BLDG. Cost, \$500,000
LOS ANGELES, Cal. No. 118 S. Broadway.

Four-story Class A reinforced concrete newspaper building (119x164 feet).

Owner—Times-Mirror Co., 100 N. Broadway, Los Angeles.

Architect — Gordon B. Kaufmann, Union Bank Bldg., Los Angeles.

Contractor—J. V. McNeil Co., 5860 Avalon Bldg., Los Angeles.

SANTA MONICA, Los Angeles Co., Cal.—Fred Niblo, Beverly Hills, has purchased property at the southeast corner of Wilshire Blvd. and Third St., Santa Monica, where he proposes erecting a four-story store and office building to cost \$135,000. Site is 100x100 feet in area.

Contract Awarded.
STORE Cost, \$100,000
MODESTO, Stanislaus Co., Cal. No. 922-924 Tenth Street.

Two-story and basement Class C brick store (60x140 feet).

Owner — S. H. Kress Co., Western Pacific Bldg., Los Angeles.

Architect—Eng. Dept. of Owner.
 Contractor—K. E. Parker, 135 South Park, San Francisco

Cement and wood floors, plate glass, metal store fronts, etc.

Sub-bids are wanted on mill work and plastering. All other sub-bids are in and will be awarded shortly. Construction will be started within one week.

Plans Being Completed.
STORES Cost, \$150,000
FORTLAND, Ore. E 37th and Sandy Blvd.

One-story concrete (36) stores, L-shape, 225x225-feet with parking space 135x150-ft.
 Owner—Orlapp & Riggs, 349 E 37th St., Portland

Plans by Stanley Orlapp.
 Ratskiller heating plant will be installed. Truss roof of the Arch Bldg type.

Plans Being Figured.
STORE Cost, \$5000
SAN FRANCISCO. SE Thirty-third Ave. and Clement St.

One-story frame and stucco store.
 Owner — M. E. and A. Cutler, 5322 Geary St., San Francisco.

Architect — A. H. Larsen, 447 Sutter St., San Francisco.
 Bids will be opened about Feb. 13.

Contract Awarded.
ALTERATIONS Cost, \$20,000
SAN FRANCISCO. SW Scott and Chestnut Streets

Alterations and additions to store building.

Owner—E. Stern, Premises.
 Architect—S. Heiman, 605 Market St., San Francisco.

Contractor—L. J. Cohn, 1 De Haro St., San Francisco.

Sub-Bids Wanted.
OFFICES Cost, \$340,000
PASADENA, Los Angeles Co., Calif. N Madison Avenue and Herkimer Street

Eight-story and basement class A reinforced concrete offices (75x127).
 Owner — Pasadena Medical - Dental Bldg. Co., H. H. Elder, Pres.

Architect—G. S. Underwood, California Reserve Bldg., Los Angeles.
 Contractor—Austin Co. of California, 77 E Washington St., Los Angeles.

February 7, 1931
 Preparing Working Drawings.
BANK Cost, \$100,000
OAKLAND, Alameda Co., Cal.

Two-story steel frame and concrete bank.

Owner—Italian National Building & Loan Assn., 524 Montgomery St., San Francisco.

Architect—F. Eugene Barton, Crocker Bldg., San Francisco.

Terra cotta exterior, marble floors and counters, bronze screens, vaults etc.

Plans Being Prepared.
OFFICES Cost, \$—
WOODLAND, Yolo Co., Cal. Second Street

Two-story brick offices (Spanish type)
 Owner—Proctor & Miller (engineers).
 Bank of America Bldg., Woodland
 Plans by Owners.

Sub-Contracts Awarded.
STORES Cost approx. \$75,000
OAKLAND, Alameda Co., Calif. SW 19th St. and Telegraph Ave.

Group of 1-story steel frame and terra cotta shops and stores.
 Owner—Twenty-fifth & Broadway Realty Co., Oakland.

Architect—A. J. Evers, 525 Market St., San Francisco.
 Contractor—George P. W. Jensen, 320 Market St., San Francisco.

Structural Steel—Judson Pacific Co., 609 Mission St., San Francisco.
Reinforcing Steel—McGrath Steel Co., 354 Hobart St., Oakland.

Concrete—Nat Lena, 23 07 Encinal Ave., Alameda.
 As previously reported, terra cotta awarded to N. Clark & Sons, 110 Natoma St., San Francisco.

Plans Complete.
REMODELING Cost, \$3000
VALLEJO, Solano Co., Calif.

Remodel 3-story concrete and brick newspaper office (old Colonial type).

Owner—Vallejo Chronicle and Times-Herald, 516 Marin, Vallejo.
 Architect—F. H. Slocumbe, 62 York Drive, Oakland.

Owner will take bids for a general contract shortly.

Plans Being Completed.
STORE Cost, \$25,000
BERKELEY, Alameda Co., Cal. Location Withheld.

Two-story and basement brick store and offices.

Owner—Winfield Snyder, 2101 Shattuck Ave., Berkeley.
 Plans will be ready for bids in about ten days.

Sub-Contracts Awarded.
LOFT BLDG. Cost, \$27,000
 (General contract only)
SAN FRANCISCO. Stevenson St. near Duboce Ave.

Two-story steel frame and concrete left building.

Owner—Bekins Van and Storage Co., 2690 Geary St.
 Architect—F. Eugene Barton, Crocker Building.

Contractor—MacDonald & Kahn, Financial Center Bldg.

Lumber—Sudden Lumber Co., Evans Ave. and Quint St.

Steel Sash—Michael & Pfeffer Iron Works, Harrison and 10th Sts.

Reinforcing Steel—Gunn, Carle & Co., 444 Market St.

Structural Steel—McClintic - Marshall Co., 2050 Bryant St.
Plumbing—S. W. Band, 191 Valencia Street.
 Steel sash, steel rolling doors, composition roofing, skylights, etc.

“Gold Medal” Safety Scaffolding

for use on steel and concrete frame buildings, saves lives, time and money

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Lessor of Suspended and Swinging Safety “Gold Medal” Scaffolding.

To Be Done By Day's Work.
STORES Cost, \$11,000
OAKLAND, Alameda Co., Cal. Broadway and Shafter Ave.
 One-story frame and stucco stores.
 Owner and Builder—M. L. Waugh, 619 Eldorado Ave., Oakland.
 Architect—Not Given.

Contract Awarded.
STORE Cost, \$16,000
PALO ALTO, Santa Clara Co., Cal. San Francisco and San Jose Aves.
 One-story and basement reinforced concrete and steel store (3 stores)
 Owner—E. J. Worth, 2409 El Camino Real, Palo Alto.
 Plans by George Moore.
 Contractor—George Moore, 531 Stanford St., Palo Alto.
 Construction will start March 1.

Contract Awarded.
NEWSPAPER BLDG. Cost, \$15,000
SOUTH SAN FRANCISCO, San Mateo Co., Cal. Grand Ave near Maple Street.
 One-story reinforced concrete newspaper building (25x140 feet; composition roof).
 Owner—Peninsula Newspapers, Inc., Palo Alto.
 Architect—John McCool, 351 Bush St., San Francisco.
 Contractor—McGary & Robson, % Architect.

Permit Applied For.
ADDITION Cost, \$6500
SACRAMENTO, Sacramento Co., Cal. No. 3433 Fifth Ave.
 One-story addition to building.
 Owner—H. C. McDox, 2030 K St., Sacramento.
 Architect—Not Given.

THEATRES

Building Permit Application Filed.
THEATRE Cost, \$500,000
SACRAMENTO, Sacramento Co., Cal. NE Tenth and L Streets.
 Five-story class A reinforced concrete and steel theatre and office building (127x160-ft.; theatre to seat 3000).
 Owner—Warner Bros., Inc., Warner Bros. Downtown Theatre, Los Angeles.
 Architect—E. Marcus Friteca, Warner Prothers Downtown Theatre Bldg., Los Angeles.

Site Selected.
THEATRE Cost, \$150,000
PALO ALTO, Santa Clara Co., Calif. University Ave. near Cowper St. (62½x150-ft.)
 One-story concrete theatre (to seat 1000; Gothic type).
 Owner—United Artist Theatres of Calif., Jos. M. Schenck, vice-president, 1966 S Vermont St., Los Angeles.
 Architect—Walker & Eisen and C. A. Balch, Western Pacific Bldg., Los Angeles.

Contract Awarded.
REMODELING Cost, \$12,000
VALLEJO, Solano Co., Cal. 206 Georgia Street.
 Remodel one-story brick building for theatre.
 Owner—Louis Trager, et al, 146 Georgia Street.
 Plans by Contractor.
 Contractor—S. J. Weeks, 331 El Dorado, Vallejo.

COLUSA, Colusa Co., Cal.—Colusa Theatre Co. is negotiating for the purchase of the structure adjoining the First Savings Bank which it proposes to remodel for a theatre, spending approximately \$10,000 in the improvements. The structure would be of

the "arena type" and will provide seating for between 600 and 650 persons. A new heating and ventilating system will be installed and the interior finished in "Celotex".

WHARVES AND DOCKS

Plans To Be Prepared.
WHARF Cost, \$—
LAKEPORT, Lake Co., Cal. Foot of Third Street.
 Municipal Wharf (steel girder type; concrete piles; 60x90-ft.)
 Owner—City of Lakeport.
 Engineer—Not Selected.
 A concrete abutment, 40 ft. long is contemplated in connection with the wharf.

MISCELLANEOUS CONSTRUCTION

Plans Being Prepared.
BUILDING Cost, \$50,000
FRESNO, Fresno Co., Cal. Belmont Memorial Park (Tellman Ave.)
 Steel, concrete and brick pipe organ building.

Owner—Belmont Memorial Park Assn. Architect—C. E. Butler, Cory Bldg., Fresno.
 The building is designed as a tower or campanile 80 feet high. The lower portion will be a memorial hall and will house the console of the organ. This floor will house the air-conditioning and humidifying equipment as well as equipment to carry the programs to all sections of the cemetery and other parts of the city by remote control.

The second floor will contain the pipes of the organ in an insulated chamber, with humidity and heat control to assure perfect tone effects. Above this floor will be the microphone room and broadcasting apparatus placed behind large, paneled grills.

The top story will be of sufficient height and size to contain a set of carillon chimes. Artistic lighting effects also will be provided.

The base of the tower will be terraced to accommodate outdoor memorial services.
 The building will be constructed of steel, concrete and brick, with a terra cotta roof.

Construction Started.
MAUSOLEUM Cost, \$150,000
LONG BEACH, Los Angeles Co., Cal. Cherry Ave. and San Antonio St.
 Two and three-story and basement reinforced concrete mausoleum (1000 crypts) (275x50 feet).
 Owner—Sunnyside Mausoleum Co., 47 American Ave., Long Beach
 Architect—Clarence L. Jay, 871 E. Washington St., Pasadena.

SUISUN, Solano Co., Cal.—City Engineer Warren S. Egbert has completed plans and bids have been ordered received by the city trustees for roofing the municipal reservoir. Plans are obtainable from the city clerk.

SAN FRANCISCO—Until February 20, 2 P. M., bids will be received by U. S. Forest Service, Ferry Bldg., for furnishing approximately 200 tons of structural bridge steel. Specifications obtainable from the above office on or after February 10. Deposit of \$5 required for specifications which is returnable.

EL NIDO, Merced Co., Cal.—Until February 25, 2:30 P. M., bids will be received by A. L. Cowell, secretary, El Nido Irrigation District, to fur-

nish approximately:
 (a) 122,000 board feet of redwood lumber;
 (b) 95,000 board feet Oregon pine lumber.
 f.o.b. cars at Merced or f.o.b. trucks at El Nido. G. E. Winton, chief engineer for district, Shaffer Bldg., Merced. Certified check 5% required with bid. Spec. obtainable from engineer.

MISCELLANEOUS SUPPLIES AND MATERIALS

OAKLAND, Cal.—Western Aluminum Foundries, Inc., 760 23rd Ave., a \$1.97 per button and \$0.1345 per marker, awarded contract by city council to furnish traffic buttons and traffic lane markers during the balance of the fiscal year.

SAN FRANCISCO—Until February 24, 3 P. M., under Proposal No. 686 bids will be received by Leonard S. Leavy, city purchasing agent, 270 Cit. Hall, to furnish, install and service three electric refrigerators for Juvenile Detention Home. Specifications obtainable from above.

LOS ANGELES, Calif.—Until 11 A. M., February 17, bids will be received by the Los Angeles city purchasing agent, Thomas Oughton, for furnishing two carloads (approx. 60 tons) commercial sulphate of copper, under Specifications 5335, f.o.b. cars Ducommun and Alameda St. Spur, Southern Pacific Railway, delivery.

LOS ANGELES, Calif.—Until 11 A. M. February 25, bids will be received by the Los Angeles city purchasing agent, Thomas Oughton, for five 37,000-volt outdoor type oil circuit breakers, under Specifications No. 2334, f.o.b. cars or trucks, 1630 N Main St.

SAN FRANCISCO—Until February 24, 3 P. M., under Proposal No. 68 bids will be received by Leonard S. Leavy, city purchasing agent, to furnish and deliver 4 miles 3/4 round copper alloy trolley wire for Municipal Railway. Specifications obtainable from above.

BUSINESS OPPORTUNITIES

Names and addresses of persons or firms concerned in the following opportunities will be furnished on request to Business Opportunity Department, Daily Pacific Builder, 5 Mission St., San Francisco, or phone GA 8144.

20825—Wooden Electric Fixture
 Delmold, Germany. Manufacturers' wooden electric fixtures wish to enter into business relations with merchant of this state. Catalogue on file.

20826—Crystal Glass
 German manufacturer of crystal glass seeks local connections.
20829—Hardwood
 San Francisco Corporation inquires for list of hardwood lumber buyers who may be interested in importing this commodity from U. S. S. R.

20833—Pencil Slats Cedar
 Seattle Wash. Firm asks to be put in touch with exporters of pencil slats ced to Japan.

20835—Amusement Concessions
 Mexico, D. F. Firm wishes to be put in touch with manufacturers amusement concessions such as a pear on our beaches.

20836—Mineral White Ground
 Mexico. Exporters of mineral white ground, used in the manufacture of paints, seek a local market on file.

20837—Representation
 San Francisco Party in San Francisco. If several days is desirous of representing local manufacturers in Vancouver

"BALES OF STATISTICS" SHOW THAT BUSINESS WILL IMPROVE

Mr. A. Cheney, President, The Cheney Co., 959 Main St., Winchester, Mass., desires to contract with architects and sheet metal contractors or manufacturers agents to handle new line.

Carl S. Fetzer, Vice-President, The Scott & Fetzer Co., West 14th St. and Locust Ave., Cleveland, Ohio, manufacturer of household appliances is seeking an exclusive distributor for San Francisco territory.

Mr. R. B. Woodard, 4649 Beverly Boulevard, Hollywood, Calif., is in a position to take on a good specialty line for Southern California.

E. J. Roche, 609 City National Bank Bldg., 26 O'Farrell St., San Francisco, wishes to contract with firm interested in representation in Rocky Mountain Region, in the merchandising, advertising or financial field.

Mr. H. H. Oldfield, Com-For-Lator Co., 1044 So. Olive St., Inglewood, Calif., is interested in securing jobber distribution in San Francisco for fan-blown electric heaters.

Mr. M. E. Tice, Ice-O-Matic Division, Williams Oil-O-Matic Heating Corp., Bloomington, Ill., wishes to locate distributors with view to establishing connection for refrigerator.

Mr. J. G. Riser, P. O. Box 1411, Salt Lake City, Utah, is desirous of communicating with any business houses in this locality wishing representation or distribution in Salt Lake Territory.

Mr. E. E. Pratt, California Commodity Exchange, Inc., Board of Trade Bldg., Los Angeles, manufacturer of sporting goods, particularly tennis supplies, is desirous of conducting live representative of the salesman type to represent them in this territory.

Mr. V. P. McMurdo, Westbound Agent, Luckenbach Co., 201 California St., San Francisco, has particulars of a new firm producing other clay or ground other which is desirous of securing connection on Pacific Coast.

Fred L. Wright, 967 Russ Bldg., San Francisco, is interested in securing representation for Eastern concern here on the Pacific Coast.

Mr. H. F. Hatch, Haskell & Hatch Co., 47 Union Ave., Boston, Mass., is interested in contacting with energetic and responsible concern to handle their products in San Francisco territory on a dealer basis.

Mr. C. Graves, Geoffrey Bros. & Co., San Pedro and Bassett Sts., San Jose, Calif., offers facilities of his office for firm in this city wishing to secure representation in that territory.

Mr. F. C. Siese, Commercial Service Corp., 744 No. Fourth St., Milwaukee, Wis., is looking for some worth while commodities to handle.

P. N. Smelling, The Marine Mfg. & Supply Co., 158 South St., New York City, manufacturer of marine machinery, desires to secure representative in this territory.

Morton D. Wainwright, 37 Floyd St., Withrop, Mass., has available facilities for concerns in this territory desiring representation.

The Hunt Co., Milltown, N. J., wishes to negotiate with manufacturers agent covering the automobile repair shop and accessory trade, for representation.

Acme Sheet Metal Works, formerly located at 155 East Santa Clara St., San Francisco, announces removal to larger quarters at 167-169 East Santa Clara St. In addition to engaging in a general sheet metal business the company will carry a complete line of hardware.

Marc A. Rose, editor of The Business Week, in addressing the mid-winter meeting of the National Association of Real Estate Boards in Chicago, said there are indications that the tide of business generally is beginning to rise and beyond this there are fundamental factors now at work that will bring new activity to the real estate market. He bases his improvement predictions on observations and "bales of statistics" gathered by his and ten other business publications covering finance, banking, construction, the power and light industry and other economic fields.

Speaking of the economic factors favorable to real estate at present, he gave his audience an imposing list. Chief among the factors emphasized was "evidence" that the Federal Reserve Board intends to liberalize its policy, and signs that in an indirect way the system may be sending a flow of money into banks, thus vigorously stimulating business.

He deplored the constant "prattle" about cheap and abundant money, talked of during the past year, said that the long term funds required for realty development have been neither cheap nor abundant, but that they are getting so now.

He told the realtors that while business in general has been hovering about 60 per cent of normal, that 80 per cent of our normal is more business than all the rest of the world transacts, and that there are unexplored fields right here for real estate and many other businesses.

Scoring talk of overproduction as a lazy dodging of the issue, Mr. Rose asserted that there can be no over-production when thousands of people in this country are without homes, when several million homes have no hot water, and when one million homes within reach of power stations, are without electricity.

Here he listed the provision of home financing plans for \$2,000 families a million potential source of new business for real estate, pointing out that 40 per cent of the American people have incomes of this amount or less, and yet have the desire for home ownership.

"The country needs Ford volume in decent housing at a price the average man can afford," said Mr. Rose.

"A certain amount of activity must go on. We must eat, we must be warmed, we must be housed somehow, we must be clothed. Business doubles about every twenty years. Interruptions are only interruptions."

Tracing the depression history of American credit, the speaker described how the stock market drew important funds from production, construction and trade, sent up interest rates, then the avalanche. Commercial paper interest rates went down and down. Now the curve of building volume is merely the curve of money rates inverted. Or it was until 1930. And in normal times the price of long term money will move exactly with the price of short term money. But in 1930 long term funds behaved in a highly unstatistical manner, and refused to go to work, and a perfectly beautiful chart of interest rate movements was spoiled. Short term money grew cheaper and cheaper. Long term money grew more and more expensive because, for the first time for years and years, greatly shattered public confidence kept these funds from going anywhere.

But the finances building projects with four to six months paper. Building is financed with long term mortgages. At present new public confidence is shown in a really "encouraging" improvement in the bond mar-

ket, provides a promising omen for a new availability of long term financing. He said:

"There are five factors that point to general business improvement, and as real estate is so closely yoked to business, these should please the real estate man.

1. Sentiment is better. This is most important of all.

2. There is plenty of money. It is idle; it hates to be unemployed. With long term borrowing expensive, there can be no revival of business. Long term money is getting cheaper.

3. Retail stocks are exhausted. Things are wearing out. Replacement buying is beginning.

4. Consumer purchasing power will be better. The dollar buys more today.

5. Highly important is the attitude of the Federal Reserve Bank. There is evidence that the Board intends to liberalize its policy. If the system pumped money into the other banks, its pressure would improve the bond market, and vigorously stimulate business. There are signs * * * that this may be taking place."

Based on the above, which Mr. Rose said was supported by "bales of statistics, acres of charts, intimate survey of scores of industries," and which is the consensus of opinion of the most popular and best-known of the prophets of business, the predictions for 1931 are:

Business will improve during the first quarter. March, April and May should show an upturn to anyone. We shall have a summer let-down which may discourage the faint-hearted. Business should turn upward again in the fall; this fall peak should be higher than the spring peak.

Business will taper off at the year-end; will be brisk in the spring of 1932—above normal.

"Cost of building is lower," said Mr. Rose. "This is more important to those who handle commercial property than to those who handle residential. It would be well to build now for commercial firms that will be in business for some time. A man buys a home usually not when it is cheap but when he can afford to buy one; demand is accumulating in this field; many families are impatiently waiting, but they must be sure of their jobs, must accumulate savings before they will buy. That time I firmly believe is near."

Mr. Rose also outlined the merits of devising a plan by which potential realty buyers could secure loans on earnings on commercial offerings. He said that there is something about publicity that brings about confidence.

San Francisco will be one of nine regional headquarters of Frigidaire Corporation in key cities of the country under the 1931 program of this General Motors subsidiary, it is announced by J. L. Conover, who will manage the new headquarters. Offices have been opened at 808 Sharon Bldg., and all sales activity of Frigidaire in San Francisco, Spokane, Portland, Seattle, Los Angeles and Oakland, will be directed from San Francisco.

The city of Inglewood has made application to the Pacific Coast Building Officials' Conference for permission to use the Uniform Building Code prepared by the conference. It will be adopted with some modifications to meet local conditions, it is stated by Garfield Leftwich, building inspector of Inglewood.

Engineering News Section

BRIDGES

SANTA MATEO-SANTA CLARA COUNTIES, Cal.—Until March 4, 2 P. M., bids will be received by the State Highway Commission to construct a reinforced concrete girder bridge across San Francisquito Creek at Palo Alto, consisting of three 27-foot spans on concrete pile bents.

See call for bids under official proposal section in this issue.

SANTA BARBARA COUNTY, Cal.—Until March 4, 2 P. M., bids will be received by the State Highway Commission to construct a reinforced concrete arch bridge across Gaviota Creek consisting of one 100-foot span.

See call for bids under official proposal section in this issue.

SANTA CRUZ, Santa Cruz Co., Cal.—Carl N. Swenson, 1395 Shasta St., San Jose, at \$43,497.00 submitted low bid to county supervisors to construct Chittenden Underpass in the Pajaro Road District. Following is a complete list of lump bids received, all being taken under advisement:

C. N. Swenson, San Jose	\$43,497.05
F. W. Walloway Co., Watsonville	44,421.53
Granite Const. Co., Watsonville	44,781.25
Thermotite Const. Co., San Jose	45,915.50
Healy-Tibbitts Const. Co., S. F.	50,985.90
Leo. Cardwell Co., Santa Cruz	52,024.70
J. L. Connor, Monterey	52,274.50
A. W. Kitcher, S. F.	52,497.25
J. L. Eodenhamer, Oakland	53,092.82
Frederickson & Watson, Oakland	53,978.10
Merritt Chapman & Scott, San Pedro	55,171.00
M. B. McGowan, S. F.	55,199.00
Frank Bryant, S. F.	57,687.46
W. H. Hauser	59,431.05

A complete list of the unit bids received on this project will be published shortly. Construction involves:

- (1) 38,500 cu. yds. roadway excavation without classification;
- (2) 800 cu. yds. structure excavation without classification;
- (3) 8000 sq. yds. subgrade;
- (4) 1425 cu. yds. class A concrete pavement, in place;
- (5) 10 cu. yds. class A do;
- (6) 7 cu. yds. class A concrete sidewalk, in place;
- (7) 1740 cu. yds. class B concrete abutments, in place;
- (8) 6000 lbs. rein. steel, in place;
- (9) 166 lin. ft. corr. metal culverts, 12-in. dia., in place;
- (10) 150 lin. ft. corr. metal culverts, 18-in. dia., in place;
- (11) 516 lin. ft. corr. metal culverts, 24-in. dia., in place.

LOS ANGELES COUNTY, Calif.—Owl Truck Co., Inc., 117 N. Tamarind St., Compton, at \$27,369 awarded contract by State Highway Commission for the following bridge work in Los Angeles County:

Bridge over Topanga Creek, about 4 miles north of Santa Monica, to be widened by constructing eight 27-foot timber spans on pile bents adjoining the existing concrete bridge and grading and surfacing approaches with asphalt concrete.

Bridge over Las Flores Creek about 7 miles north of Santa Monica, to be

widened by constructing two 26-foot reinforced concrete girder spans on a concrete pier and concrete abutments and grading and surfacing approaches with asphalt concrete.

SAN FRANCISCO—Until February 20, 2 P. M., bids will be received by U. S. Forest Service, Ferry Bldg., for furnishing approximately 200 tons of structural bridge steel. Specifications obtainable from the above office on or after February 10. Deposit of \$5 required for specifications which is returnable.

SONORA, Tuloume Co., Cal.—John L. Whitney, Inc., Jamestown, at \$352 awarded contract by city council to reconstruct bridge over the Sonora Creek in Stockton Street. Other bids: D. R. Hanify, \$925; Perry L. Whitt, Columbia, \$1,115.

STOCKTON, San Joaquin Co., Cal. E. R. Stokes, 933 S-Sierra Nevada St. Stockton, at \$12,237.25 submitted low bid to county supervisors to construct subway near Forrest Lake on the Lower Sacramento road in Road District No. 2 under the tracks of the Southern Pacific Railroad; estimated cost \$26,000. Railroad is to pay a portion of the cost. Project involves:

- (a) 530 cu. yds. excavation (earth unclassified).
- (b) 80 cu. yds. old concrete to be removed.
- (c) 227 cu. yds. reinforced concrete (1½:1½:3).
- (d) 315 cu. yds. mass concrete.
- (e) 70 cu. yds. deck concrete.
- (f) 70 lin. ft. concrete handrail
- (g) 44,000 lbs. reinforced steel
- (h) Drainage equipment
- (i) Lighting and wiring.

Complete list of bids as follows:

E. R. Stokes	\$12,237.25
John Hackman	15,738.40
Ed. Reilly	16,272.40
C. W. Wood	17,236.50
Nelson Bros.	17,453.00
W. H. Hauser	17,635.50
Frederickson & Watson	17,743.50
Geo. J. Ulrich Const. Co.	17,846.50
J. W. Hoops	18,481.00
C. Emil Force	19,784.00
Lindgren-Swinerton, Inc.	19,789.50
Ely & Bean	24,004.00
Engstrom Const. Co.	25,120.00

SANTA MATEO AND SANTA CLARA COUNTIES, Cal.—As previously reported bids will be received March 4, 2:00 P. M., by State Commission to construct reinforced concrete girder bridge across San Francisquito Creek at Palo Alto, consisting of three 27-ft. spans on concrete pile bents. Project involves:

- (1) 220 cu. yds. struc. excav.
- (2) 2350 lin. ft. rein. concr. piles;
- (3) 403 cu. yds. class A Portland cement concrete;
- (4) 8 cu. yds. class E Portland cement concrete;
- (5) 95,000 lbs. reinforced steel;
- (6) 770 lbs. phosphor bronze expansion plates;
- (7) 1 lot, miscellaneous items of work.

MERCED COUNTY, Cal.—California Department of Public Works, Division of Highways, has applied to the Rail-

road Commission for authority to construct an overhead crossing of 11 tracks of The Atchison, Topeka & Santa Fe Railway at Bradley, about 2½ miles east of Merced in Merced County. It is stated that the existing grade crossing is dangerous traffic, and upon completion of the overhead structure carrying the highway over the railroad tracks a 16 feet west of the existing grade crossing, that the latter shall be abandoned and effectively closed to travel. The estimated cost of the proposed overhead crossing is \$184,000, which to be paid by the Highway Division and the Santa Fe in equal shares under an agreement tentatively reached by the principals.

DREDGING, HARBOR WORKS & EXCAVATION

RICHMOND, Contra Costa Co., Cal.—Franks Construction Co., 266 California St., San Francisco, submitted low bid to U. S. Engineer Office, Custom House, San Francisco, for dredging in Richmond Harbor at 1 cents per cu. yd. Project involves 523,500 cu. yds. San Francisco Bridge Co., San Francisco, was the only bidder at 15.1 cents per cu. yd. Engineer's estimate was 12.33 cents. Bids held under advisement.

YUBA CITY, Sutter Co., Cal.—Until February 27, 2 p. m., bids will be received by J. B. Heiken, secretary Joint Highway District No. 12, for making earth fill approaches to Robbins Bridge at Town of Robbins in the Central Canal Bridge, ½ mile north of the Town of Robbins. Project involves 600 cubic yards of earth fill. Certified check 10% payable secretary required with bid. Plans obtainable from secretary, 2nd & C Sts., Yuba City.

SAN DIEGO, Cal.—Until 11 A. M. Feb. 24, bids will be received by Public Works Officer, 11th Naval District, San Diego, to construct quays wall at the Naval Operating Base (Destroyer Base), San Diego. Sp. No. 6400. The work consists of quays wall approx. 704 ft. long and 4000 cu. yds. of Robbins. Project involves 600 cubic yards of earth fill; reinf. concrete cap; untreated timber bearing piles and timber pile form; creosoted wales, etc.; cast-iron bits and miscellaneous steel and iron work. Plans obtainable from Commandant, Headquarters, 11th Naval District, San Diego, upon deposit \$10. DeWitt C. Webb, Captain (CE) U. S. N. Public Works Officer.

IRRIGATION PROJECTS

EL NIDO, Merced Co., Cal.—Until Feb. 25, 2 P. M., bids will be received by A. L. Cowell, secretary, Nido Irrigation District, for the construction of a canal system and a purtenant works, including:

- (a) small dam across Duck Slough
- (b) Main canal approx. 11.2 mile long involving 111,000 cu. yds. excavation;
- (c) Distribution laterals aggregated in length approx. 13.6 miles with approx. 53,000 cu. yds. excavation
- (d) Necessary siphons, drops, stop gates, bridges and other struc.

(c) Lining of approx. 64,100 sq. ft. of main canal with concrete.

(f) Drilling of from 1 to 3 drainage wells and furnishing complete pumping equipment for same.

Certified check \$75,000 required with bid. E. Winton, chief engineer for district, Shaffer Bldg., Merced. Plans obtainable from engineer.

CALIFORNIA. Following permits were granted by the State Department of Public Works, Division of Water Resources, during the month of January, 1931, to appropriate water:

Permit 3643, Application 6412 (Yuba Co.) Issued to Maurice E. Lawton, Strawberry Valley, Calif., January 12, 1931, for 0.654 cubic foot per second from Sticker Spring for power purposes. Est. cost \$600.

Per. 3644, App. 2787 (Inyo Co.) The Southern Sierras Power Co., Riverside, 29.69 ac. ft. per annum from Middle and North Fork Bishop Creek for power purposes. Est. cost \$60,000.

Per. 3645, App. 4549 (Inyo Co.) The Southern Sierras Power Co., 2,000 ac. ft. per annum from Green Lake Creek for power purposes. Est. cost \$16,000.

Per. 3646, App. 2788 (Inyo Co.) Nevada California Power Co., Riverside, for 2999 ac. ft. per annum from Middle and North Forks of Bishop Creek for power purposes. Est. cost \$3,000.

Per. 3647, App. 6805 (Mendocino Co.) L. A. Howie, Redwood Valley, for 0.16 cu. ft. per sec. from Redwood Valley Creek for irrigation and domestic purposes on 12.9 acres. Est. cost \$500.

Per. 3648, App. 6725 (Monterey Co.) S. R. and C. C. Avila, King City, for 0.17 cu. ft. per sec. from Carrizo spring for irrigation and domestic purposes on 15 acres. Est. cost \$2500.

Per. 3649, App. 6805 (Mendocino Co.) L. A. Howie, Redwood Valley, 0.16 cu. ft. per sec. from Redwood Valley Creek for irrigation and domestic purposes on 12.9 acres. Est. cost \$500.

Per. 3650, App. 6762 (Mariposa Co.) J. P. Fiske, Coulterville, 0.011 cu. ft. per sec. from unnamed spring for irrigation and domestic purposes on 4 acres. Est. cost \$100.

Per. 3651, App. 6589 (Ventura Co.) Julius Olander, Fresno, 0.039 cu. ft. per second from unnamed spring for mining purposes. Est. cost \$100.

Per. 3652, App. 6522 (San Joaquin, Stanislaus and Calaveras Counties) Linden Irrigation District, Stockton, for 40,000 ac. ft. per annum and 154 cu. ft. per sec. from Calaveras river for irrigation and domestic purposes on 12,330 acres. Est. cost \$105,000.

CALIFORNIA. — Following applications filed with the State Department of Public Works, Division of Water Resources, during the month of January, 1931, for permits to appropriate water:

Application 6857 (Kern and Ventura Counties) Florence L. Cuddy, Lebec, Kern County, for 100,000 g.p.d. from three unnamed spring tributary to San Joaquin Valley for domestic purposes. Est. cost \$5,000.

App. 6853 (Madera Co.) T. A. Somma, care J. T. Sharp, attorney, Alturas, for 0.02 c.f.s. from an unnamed spring tributary to Pit River, for domestic purposes.

App. 6859 (El Dorado Co.) Magnus Jensen, Camino, 0.025 c.f.s. from Fill Canyon tributary to Little Iowa Canyon, Big Iowa Canyon, South Fork American River, for irrigation and domestic purposes on 3 acres. Est. cost \$200.

App. 6860 (Inyo Co.) W. C. Pancher, Bishop, 2.5 c.f.s. from Green Creek tributary to Bishop Creek and Owens River, for power purposes, 1.6-hp. Est. cost \$250.

App. 6861 (Inyo Co.) W. C. Pancher, Bishop, 0.047 c.f.s. from Green Creek tributary to Bishop Creek and Owens River, for domestic purposes. Est. cost \$265.

App. 6862 (Nevada Co.) J. K. Williams, Nevada City, for 2.0 c.f.s. from Windup Canyon tributary to Greenhorn Creek, thence Bear River, for mining purposes. Est. cost \$150.

App. 6863 (Lara Co.) Leavitt M. McQuesten, care Division of Pomology University Farm, Davis, 0.31 c.f.s. from Clover Creek tributary to Middle Creek, for irrigation purposes on 25 acres. Est. cost \$250.

App. 6864 (San Diego Co.) C. M. Gray, care G. H. Stone, attorney, San Diego Trust & Savings Bldg., San Diego, 0.06 c.f.s. from Castro Creek tributary to San Luis Rey River, for irrigation purposes on 6 acres. Est. cost \$170.

App. 6865 (Alameda Co.) Sisters of the Sacred Name of Jesus and Mary, a corporation, care Hatfield, Wood & Kilkenny, attorneys, Chancery Bldg., San Francisco, for 0.1 c.f.s. from Laurel Spring and Sulphur Spring tributary to Agua Caliente creek, for domestic purposes. Est. cost, \$8000.

App. 6866 (Alameda Co.) Sisters of the Sacred Name of Jesus and Mary, a corporation, care Hatfield, Wood & Kilkenny, attorneys, Chancery Bldg., San Francisco, 0.2 c.f.s. and 43 ac. ft. per annum, from Laurel Creek and Arroyo Agua Caliente Creek tributary to San Francisco Bay, for irrigation and domestic (stockwater) purposes on 58 acres and 200 head of stock. Est. cost, \$225.

App. 6867 (Riverside Co.) F. W. Sheffield and Chas. Harnack, care F. W. Sheffields, Redlands, 3.0 c.f.s. from Falls Creek, for irrigation and domestic purposes on 150 acres. Est. cost, \$3200.

App. 6868 (Inyo Co.) H. J. Halliday, Bishop, 0.0035 c.f.s. or approximately 2260 gals. per day from small unnamed stream tributary to Bishop Creek and Owens River, for domestic and recreational purposes. Est. cost, \$155.

App. 6869 (Siskiyou County) Elliott Creek Mines, Inc., care W. L. Cobb, Pres., Box 658, Roseburg, Oregon, for 0.5 c.f.s. from Elliott Creek tributary to Applegate River, for power purposes.

App. 6870 (Nevada County) Charles Thompson, care J. F. Hoffman, agent Box 307, Grass Valley, 50 c.f.s. from (a) Steechollow Creek and (b) Fork of Little Greenhorn Creek tributary to Bear River, for mining and domestic purposes. Est. cost \$50.

App. 6871 (Trinity Co.) S. G. Shepard and associates, Denny, Trinity Co., 30 c.f.s. from Slide Creek (and Emigrant Creek at its mouth) tributary to New Creek, for mining purposes.

App. 6872 (Plumas Co.) Max Paul Boehme, 809 Kearny St., San Francisco, 1.0 c.f.s. from Mill Creek tributary to East Branch of the N Fork of Feather River, for irrigation and domestic purposes on 6 acres.

App. 6873 (Humboldt Co.) Thos. N. McDaniel, 312 Byington Bldg., Reno, Nev., 150 c.f.s. from Willow Creek tributary to Trinity river, for mining and domestic purposes.

App. 6874 (Plumas Co.) Oscar T. Schumacher, Quincy, 1.0 c.f.s. from unnamed spring tributary to Dixon Creek, thence Nelson Creek, thence Middle Fork Feather River, for mining and domestic purposes on 20 acres. Est. cost \$250.

App. 6875 (San Diego Co.) C. D. Eddy and F. I. Eddy, care C. D. Eddy, 1132 20th Street, National City, 0.25 c.f.s. from spring in unnamed stream tributary to Sweetwater River, for irrigation and domestic purposes on 20 acres. Est. cost \$500.

App. 6876 (El Dorado Co.) Mrs. Bertha Stover, care A. E. Carette, 1279 Temple St., Los Angeles, one-third miner's inch c.f.s. from School Spring tributary to Greenhorn Creek, thence S. Fork American River, for irrigation and domestic purposes on 8 acres. Est. cost \$75.

App. 6877 (San Joaquin Co.) J. C. Blossom and F. M. Lamb, care Ohm & Raab, 109 E. Weber Ave., Stockton, 15.15 c.f.s. from North Canal tributary to Middle River Branch of San Joaquin River, for irrigation purposes on 1,212 1/2 acres. Est. cost \$14,000.

App. 6878 (Del Norte Co.) W. G. Munce, P. O., Box 378, Crescent City, 5000 gals. per day from Kelly's Gulch tributary to Smith River, for irrigation and domestic purposes on 2 acres.

App. 6879 (Mono Co.) Edith Haymer, Bishop, 0.005 c.f.s. or approx. 3250 g.p.d. from Convict Creek tributary to Owen's River, for domestic purposes. Est. cost \$500.

App. 6880 (Tulare Co.) J. H. Gardner, Box 666, Springville, 1.0 c.f.s. from Bear Creek tributary to Tule River for irrigation and domestic purposes on 34 acres. Est. cost \$500.

App. 6881 (Orange Co.) Mrs. C. C. Cravath, Box 143, Laguna Beach, 360 gals. per day from spring tributary to North Fork San Juan Creek, for domestic purposes.

App. 6882 (Los Angeles Co.) C. A. and Wm. H. Cruzan, care C. A. Cruzan, 915 E. 16th St., Los Angeles, 2.0 c.f.s. (1.0 c.f.s. from each of two springs) from (1) Warm Spring and (2) Whiskey Spring tributary to Mint Canyon, thence Santa Clara River, for mining purposes. Est. cost \$5,000.

STREET LIGHTING SYSTEMS

EUREKA, Humboldt Co., Cal.—Until February 17, bids will be received by A. Walter Kildale, city clerk (233) to install cast iron lighting standards, together with underground system, in Fourth Street from Broadway to J St. Estimated cost \$15,000. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk. E. D. Gardner, city engineer.

LIVERMORE, Alameda Co., Cal.—City trustees select contract type of standard in connection with electrolier system to be installed in the business district. L. E. Wright is city engineer.

MACHINERY AND EQUIPMENT

SACRAMENTO, Cal.—Spears-Wells Machinery Co. at \$3,443 awarded contract by city council to furnish one Buffalo Springfield 8-ton road roller for street department.

OAKLAND, Cal.—Riv Co., Inc., 400 Fourth St., San Francisco, at \$1,655 awarded contract by East Bay Municipal Utility District to furnish one air compressor for the El Cerrito Pumping Plant.

MADERA, Madera Co., Cal.—L. A. Rose, 227 Main St., Porterville, at \$292.50, awarded contract by city supervisors to furnish one new 35-Monarch Tractor f. o. b. Madera, including allowance for old tractor no longer required by the county.

OAKLAND, Cal.—Brooks Motor Co., 828 S. 8th, Palo Alto, El Cerrito, at \$4,306.06 awarded contract by East Bay Municipal Utility District to furnish six motor cars and to Connell & Shumate, 480 23rd St., Richmond, at \$3,008.15 for furnish five Chevrolet cars. Both bids allowed for turn-ins.

LOS ANGELES, Calif.—Until 11 A. M., February 17, bids will be received by the Los Angeles city purchasing agent, Thomas Oughton, for furnishing two gasoline engine driven air compressors, f. o. b. 410 Ducommun St., under Spec. No. 2332. Allowance on one used machine to be stated.

LOS GATOS, Santa Clara Co., Cal.—Until March 2, 8 P. M., bids will be received by Donna M. Winning, city clerk, to furnish and deliver one steel closed cab and steel body, mounted on 103½-inch wheelbase; 4-cylinder; 15½-ton capacity chassis; equipped with front bumper, 4-hydraulic shock absorbers, etc., for use of Street Department. Further information obtainable from city clerk.

DELANO, Kern Co., Calif.—Until February 20, 7 P. M., bids will be received by G. A. Swanson, clerk, Delano Union Chamber of Commerce District to furnish school bus of at least 25-hp. with a seating capacity of not less than 50 grammar school pupils. Certified check or bidder's bond 10% payable to clerk required with bid. Spec. obtainable from the clerk at Delano.

SAN FRANCISCO.—Until February 24, 10 A. M., under Schedule No. 928-31-204, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver: One Industrial Tractor, four-wheel, gasoline propelled. To be equipped with 24-hp. motor, four speeds forward and one reverse speed. Solid rubber tires, size of rear tires approx. 40-in. by 5-in., front tires approx. 24-in. by 3½-in. To be complete with front and rear bumpers; securely attached and braced, for shunting railroad cars. Equipped with standard automatic drawbar coupler. To be equal and similar to Model "U" Industrial Tractor as manufactured by Allis-Chalmers Mfg. Co., Milwaukee, Wis.

WANTED

TO PURCHASE used Linn Tractor Truck. Lidal-Wiley, Inc., 208 Columbia St., Seattle Washington.

SAN FRANCISCO.—Until February 24, 10 A. M., under Schedule No. 928-31-204, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver: Four heavy duty trailers, 5-ton capacity, steel frame, wood platform, approx. size 4-ft. x 10-ft., height of platform not to exceed 24-in. With 4 cast steel wheels with roller bearings.

EUREKA, Humboldt Co., Cal.—Until February 17, 8 P. M., bids will be received by A. Walter Kiddale, city clerk, to furnish light automobile sedan, 4- or 6-cylinder, fully equipped, for Police Department. Specification obtainable from city clerk.

CHULA VISTA, San Diego Co., Cal.—Until 7:30 P. M., Feb. 24, bids will be received by city council for the purchase of one dump truck, of about 3 tons capacity. Bidders are to submit specifications. C. S. Timmons, city clerk.

SACRAMENTO, Cal.—Until February 19, 8:15 P. M., bids will be received by H. G. Denton, city clerk, to furnish elevating and screening equipment for Sacramento Filtration Plant. Certified check 5% payable to City Controller required with bid. Plans on file in office of clerk. Fred J. Klaus, city engineer.

SAN FRANCISCO.—Until February 24, 10 A. M., under Schedule No. 928-31-204, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver: One tiering lifting truck without battery, 3000-lb. capacity; spur gear drive, four wheel steer, two-wheel front, two speeds forward and reverse. Weight without battery approx. 1750 lbs. Dimensions overall

approx. 33-in. wide x 93-in. long. To be complete with all accessories for operation except to be without battery. To be equal and similar to Model No. TLGL as manufactured by the Automatic Trans. Co., Inc., Buffalo, N. Y.

FIRE EQUIPMENT

NEWPORT BEACH, Orange Co., Cal.—City council orders advertising for bids for fire equipment, including two fire engines, to cost about \$19,000.

OAKLAND, Calif.—Pioneer Rubber Mills at \$5,745 awarded contract by city council to furnish and deliver 14,000 ft. of fire hose. Complete list of unit bids received published in issue of January 30.

PACIFIC GROVE, Monterey Co., Calif.—American-LaFrance Fire Engine Co., at \$13,150 awarded contract by city council to furnish and deliver one 750-gallon pumping engine and hose car with booster tank.

LOS ANGELES, Cal.—Pioneer Rubber Mills, 822 E 3rd St., was awarded contract by city purchasing agent, at \$5c ft. for 30,000 ft. 1½-in. fire hose. Spec. No. 2315.

RESERVOIRS AND DAMS

HAYWARD, Alameda Co., Cal.—Until February 18, 8 p. m., bids will be received by M. B. Tompkins, city clerk, to construct reinforced concrete reservoir of 1,000,000 gals. capacity to be constructed in Upper D. St The project follows:

- (1) 29.40 M.B.M. lumber;
- (2) 12,670 sq. ft. 4-ply tar and gravel roofing;
- (3) 4,860 cu. yds. excavation;
- (4) 463.7 cu. yds. concrete in footings and columns;
- (5) 48,400 lbs. reinf. steel;
- (6) 1,270 lbs. asphalt sealing compound;
- (7) 201 1/4 in. vit. clay B & S pipe;
- (8) 590 sq. ft. ¼-in. wire screening;
- (9) 920 lin. ft. 12-in. C. I. supply main (to be laid only);
- (10) 2 concrete valve boxes;
- (11) 1 12-in. C. I. inlet pipe installed;
- (12) 1 8-in. C. I. overflow pipe;
- (13) 1 8-in. washout C. I. pipe;
- (14) 1 wooden indicator;
- (15) 1 wooden indicator.

NOTE: All C. I. pipe, specials and valves furnished by the city. Certified check 10% payable to city required with bid. Plans obtainable from clerk or City Engineer Jesse B. Holly on deposit of \$5, returnable.

SARATOGA, Santa Clara Co., Cal.—San Jose Water Works, San Jose, has appropriated \$224,110 for improvements for the current year including the construction of a 1,000,000 gallon reinforced concrete reservoir above Saratoga. It is proposed to commence construction within 30 days.

ORANGE, Orange Co., Cal.—As previously reported, bids will be received February 26, 2 P. M., by Serrano Irrigation District, to construct earth fill dam in Santiago Canyon. A Kempke, engineer, Hobart Bldg., San Francisco. Following is a complete listing of the quantity of materials involved in the project:

(a) The excavation of approximately 124,000 cubic yards of material in stripping the foundation of the dam.

(b) The excavation of approximately

6740 cubic yards of material for the cut-off trenches of the dam.

(c) The placing and compacting of approximately 850,000 cubic yards of selected material to form the dam.

(d) The placing of approximately 6400 cubic yards of concrete slab facing on the upstream face of the dam.

(e) The construction of a reinforced concrete outlet tower and conduit.

(f) The construction of a spillway and wasteway channel involving the excavation of approximately 42,000 cubic yards of material and the placing of approximately 3900 cubic yards of reinforced concrete.

(g) The supplying of approximately 13,500 barrels of Portland cement.

(h) The supplying of approximately 690 tons of reinforcing steel.

(i) The supplying of cast iron body, brass mounted, non-rising stem gate valves.

(j) The supplying of cast iron thimbles, nipples, pipe railing, metal fixtures, anchor bolts, lead gaskets, valve stem extensions, ladders, etc.

(k) The supplying of flanged 36-in. diameter by one-fourth inch welded steel pipe.

(l) The clearing of the flooded and marginal area of the reservoir embracing approximately 750 acres.

The work will be sub-divided and proposals will be received for the separate portions thereof under eight schedules as follows:

SCHEDULE NO. 1

This schedule will embrace the major portion of the construction work. There will be included thereunder Items (a), (b), (c), (d), (e), (f), as above set forth.

SCHEDULE NO. 2

This schedule will cover the furnishing of Portland Cement, Item (g), as above set forth.

SCHEDULE NO. 3

This schedule will cover the furnishing of reinforcing steel, Item (h), as above set forth.

SCHEDULE NO. 4

This schedule will cover the furnishing of gate valves, Item (i), as above set forth.

SCHEDULE NO. 5

This schedule will cover the supplying of cast iron and wrought iron work, Item (j), as above set forth.

SCHEDULE NO. 6

This schedule will cover the supplying of 36-in. dia. by one-fourth inch welded steel pipe, Item (k), as above set forth.

SCHEDULE NO. 7

This schedule will cover the supplying of one cast iron Venturi meter and one manometer tube.

SCHEDULE NO. 8

This schedule will cover the clearing of the flooded and marginal area of the reservoir, Item (l), as above set forth.

A certified check in the amount of \$70,000 must accompany the bid.

Attention is particularly directed to the fact that the proposals covering Schedules Nos. 1, 2, 3, 4, 5, 6, 7 and 8, will be embodied in a single contract and that separate contracts will not be let covering any one of them.

Plans and specifications can be seen at the office of the board of directors of Serrano Irrigation District at the residence of F. H. Collins, Secretary of said District, located on Prospect Avenue between Lincoln Street and East Collins Avenue, one mile north and two miles east of the City of Orange, Orange County, California, and at the office of the

Board of Directors of Carpenter Irrigation District at the residence of D. S. Smiley, Secretary of said District, located on the west side of Alameda Street one mile north of the town of El Modena, Orange County, California, and copies of said plans and specifications and proposal forms may be secured at either of said offices and at the office of A. Kempfky, Consulting Engineer, Hobart Bldg., San Francisco, Calif.

The proposed dam will be 130 ft. in height, 145 ft. in length, with a 602-ft. thickness at the base tapering at the top to 10 ft. The structure will have concrete spillway and will provide a 25,000-acre ft. storage reservoir.

PIPE LINES, WELLS, ETC.

CORCORAN, Kings Co., Cal.—Until February 16, 8 P. M., bids will be received by James C. Condon, city clerk to drill well in Lot 8, Block 8. Bids are wanted under the following items: First: Drill a test hole and log formations for a water well to a depth of not to exceed 400 ft. or at any lesser depth depending on formations.

Second: If said formations are acceptable to said City, to ream said hole for 12-in. casing to a depth of 120 ft. and 10-in. casing to a depth of not to exceed 300 ft.

Third: Furnish and set screw casing, 45-lb. 12-in. C. I. casing, and 33-lb. 10-in. O. D. casing; casing to be performed as may be directed by City. Alternate Bid: Ream test hole, furnish and set 12-in. 45-lb. I. D. screw casing to a depth of not to exceed 400 ft. and to be performed as may be directed by said City.

SANTA CLARA, Santa Clara Co., Cal.—Until February 16, 8:00 P. M. bids will be received by A. J. Cronin, city clerk, to drill one well approx. 300 feet in depth, either 16 or 14 inches in diameter. Certified check 10% payable to city required with bid. Specifications on file in office of clerk.

SEWERS AND SEWAGE DISPOSAL PLANTS

SAN LUIS OBISPO, San Luis Obispo Co., Cal.—City council has started proceedings for sewer in Erizolara St. bet. Mills and Nipomo Sts. Est. cost, \$3800.

BERKELEY, Alameda Co., Cal.—As previously reported, bids will be received by Florence E. Turner, city clerk, February 17, to construct sewer in Cragmont Ave. and Rock Lane from Regal Road to Poplar St. Project involves:

- (1) 150 ft. 18-in. vitrified pipe;
- (2) 420 ft. 15-in. do.;
- (3) 570 ft. 12-in. do.;
- (4) 65 ft. 10-in. do.;
- (5) 35 ft. 8-in. do.;
- (6) 3 catchbasins;
- (7) 4 manholes.

Certified check 10% payable to city required with bid. Plans on file in office of clerk and obtainable from Harry Goodridge, city engineer.

SAN JOSE, Santa Clara Co., Cal.—City council declares intention (5297) to sewer portions of Willow St., Prevost St., and Delmas Ave., involving vit. pipe, san. sewers; brick manholes; vit. wye branches, house laterals and flushing inlets. 1911 Act. Hearing Feb. 24. John J. Lynch, city clerk. Wm. Popp, city engineer.

STOCKTON, San Joaquin Co., Cal.—County Surveyor Julius Manthey preparing plans for sewer system at county fair grounds.

HILLSBOROUGH, San Mateo Co., Cal.—Oakland Sewer Const. Co., 10-003 82nd Avenue, Oakland, at \$9,160 awarded contract by town trustees to construct storm sewer system, consisting of 12-in., 15-in., 18-in. and 24-in. concrete pipe sewers; brick manholes and catchbasins.

BERKELEY, Alameda Co., Cal.—Until February 17, 10 A. M., bids will be received by Florence E. Turner, city clerk, to construct sewer in Cragmont Ave. and Rock Lane from Regal Road to Poplar St. Certified check 10 per cent payable to city required with bid. Plans on file in office of clerk and obtainable from City Engineer Harry Goodridge on deposit of \$1, returnable.

OAKLAND, Cal.—J. M. Calhan, 2994 E. 10th St., Oakland, submitted low bid to the City Council at \$318.50 to construct sewer in south half of 6th St. from Castro St. easterly, involving:

- (1) 115 lin. ft. 8-in. pipe sewer;
- (2) 1 12-inch manhole;
- (3) 1 8-inch lampole;
- (4) 3 wye branches.

Following is a complete list of the bids and units received:

(A) J. M. Calhan, Oakland.....	\$318.50		
(B) Thomas F. Geary, Oakland 365.23			
(C) Oakland Sewer Const. Co.....	458.90		
	(A)	(B)	(C)
(1)	\$ 2.40	\$ 2.75	\$ 3.54
(2)	25.00	17.00	35.00
(3)	16.00	17.00	15.00
(4) .....	.50	2.00	.60

All bids held under advisement.

TULARE, Tulare Co., Cal.—Pollard Bros., Ltd., Kingsburg, at 50c foot submitted low bid to city council to furnish 3,500 ft. 18-in. hydraulic concrete sewer pipe. Complete list of bids follows, all being taken under advisement until February 11:

Pollard Brothers.....	\$50
E. Tonkens, Tulare.....	52
P. W. Elaine, Tulare.....	625
Tulare Cement Co., Tulare.....	62
Jourdan Conc. Pipe Co., Selma.....	65

OAKLAND, Cal.—City Eng. Walter Frickestad preparing plans for storm sewers in 41st Street and portions of Broadway and the Ridge Road.

SANTA CLARA, Santa Clara Co., Cal.—City trustees have purchased a 236-acre site on which to locate the new sewage farm including the erection of a modern treating plant similar to that now in operation at Lodi. The cost is placed at \$100,000.

MODESTO, Stanislaus Co., Cal.—H. A. Truscood at \$2,424.13 awarded contract by city council to furnish vitrified clay sewer pipe, as follows: 1650 ft. 18-in. sewer pipe; 160 ft. 15-in. do. 1070 ft. 12-in. do.

This pipe will be installed under the supervision of Frank J. Rossi, city engineer, as a means to relieve unemployment in Modesto.

SANTA MARIA, Santa Barbara Co., Cal.—City Supt. Harry Nell, Jr., and City Engineer York Peterson have been authorized by the Santa Maria city council to prepare plans for extensions to the city's sewage system in N Broadway; estimated cost \$15,000.

LOS ANGELES, Cal.—F. F. Greenfield Co., 1808 W 7th St., reports that the contract for sludge tanks in connection with the two new sludge digestion units costing \$18,050 for the County Sanitation District No. 2, has been awarded to the Truscen Steel Co., 5480 E. Slauson Ave. The excavating contract was awarded to Pacific Crane Service Co., 3128 E 26th St. A. K. Warren, 200 Law Bldg., chief engineer.

WATER WORKS

SANTA BARBARA, Calif.—Stanley McCormick estate has started preliminary work on new water system and a new sewer system at River Rock, Montecito, to cost \$100,000.

SAN JOSE, Santa Clara Co., Cal.—Until March 2, bids will be received by Henry A. Pfister, county clerk, for the purchase of the \$27,500 bond issue of County Water Works District No. 1, proceeds of the sale to finance construction of a water distributing system to be supplied from Spring Valley lines, Palo Alto's municipal water system and domestic wells. Plans are being completed by the Burns-McDonnell-Smith Engineering Co., Western Pacific Bldg., Los Angeles.

MADERA, Madera Co., Cal.—Pacific States Cast Iron Pipe Co., 111 Sutter St., San Francisco, awarded contract by city council to furnish and deliver pipe and fittings, as follows: 3,500 ft. 6-in. C. I. pipe, 150 lbs. working pressure:

- 8 6x6x6 bell end end crosses;
- 1 8x6x6 bell end end cross;
- 4 6x6x6 bell end tees;
- 14 6x4 reducers, 6-inch spigot, 4-in. bell;
- 4 6-inch plugs;
- jointing material for 260 6-inch joints.

Pacific States Company.....\$2,385.60
 A.H. (McWane) Pre-caulked 2,698.25
 National C. I. Pipe Co.....2,354.75
 U. S. Pipe & Foundry Co.....2,480.80
 American C. I. Pipe Co.....2,493.10
 Universal C. I. Pipe Co.....2,685.40
 Last four named bidders did not include jointing material.

SAN JOSE, Santa Clara Co., Cal.—San Jose Water Works has provided \$224,110 in 1931 budget to finance improvements to system, including \$88,706 for distributing system, \$13,806 on transmission system, \$21,104 on pumping equipment, and \$47,249 on its service, meters, etc.

LOS ANGELES, Cal.—Until 11 A. M., February 17, bids will be received by the Los Angeles purchasing agent, Thomas Oughton, for furnishing 2500 2-in. bronze curb cocks; Spec. No 2337.

Bids, same date, for furnishing two 24-in. automatic check valves for use on the discharge of centrifugal pumps handling 40 cu. ft. per second against a head of 225 ft. Spec. No. 2331.

LOMPOC, Cal.—Standard Pipe & Supply Co., 441 Santa Fe Ave., Vernon, submitted the low bid to the Lompoc City Council Feb. 3, for furnishing black steel pipe, as follows:

- (1) 2800 ft. 8.625-in. O. D. by 8.249-in. I. D., lap weld black steel pipe, plain end, beveled 45 deg. for welding, asphaltum dipped, weight 16.94 lbs. per ft.;
- (2) 100 ft. 8-in. O. D. by 7.623-in. I. D., lapweld black steel pipe, plain end, beveled 45 deg. for welding, asphaltum dipped, weight 15.522 lbs per ft.;
- (3) 600 ft. 7-in. O. D. by 6.652-in. I. D., lapweld black steel pipe, plain end, beveled 45 deg. for welding, asphaltum dipped, weight 12.655 lbs. per ft.

The unit prices were: (1) 67.5c ft.; (2) 69c ft.; (3) 55c ft.

GRIDLEY, Butte Co., Calif.—City Clerk J. L. Lewis announces time for asking new bids to furnish and install Diesel engine in connection with the municipal light and water plant is indefinite.

SACRAMENTO, Cal.—Until Feb. 19, bids will be received by H. G. Denton, city clerk, to furnish and install elevating and screening equipment at the Municipal Filtration Plant; est. cost, \$1200. Funds for this work are available in the current budget. Plans on file in office of clerk. Fred J. Klaus is city engineer.

NEVADA CITY, Nevada Co., Cal.—City trustees contemplate special election to decide on using the \$10,000 swimming pool bond fund for street work and extensions to the sewer system, \$5,000 to be applied to each activity.

PLAYGROUNDS & PARKS

SAN FRANCISCO.—See "Streets and Highways," this issue. Bonds of \$2,500,000 voted by City and County of San Francisco for playground and street improvements.

PALO ALTO, Santa Clara Co., Cal.—A group of citizens have submitted proposal to the city council offering to underwrite a sum of \$25,000 to purchase on the lease contract basis, the old Palo Alto Hospital site, and reserve the site as a decorative park and not as a children's playground with apparatus. Taken under advisement.

STREETS AND HIGHWAYS

CLARK COUNTY, Nev.—Triangle Rock and Gravel Co., 2548 G St., San Bernardino, Calif., at \$68,875 awarded contract by Nevada State Highway Commission to reconstruct 19.88 miles of highway in Clark County between the west slope of Mormon Mesa and the Lower Virginia river bridge. Project involves: 77,000 cu. yds. excav., unclassified; 96,564 yds. sta. overhaul; 12,355 miles prepare subgrade and shoulders; 6.73 miles prepare shoulders; 48,700 cu. yds. crushed rock or crushed gravel in place; 1000 cu. yds. crushed rock or crushed gravel in stockpile; 12 cu. yds. class A concrete; 17 cu. yds. class B concrete; 46 lin. ft. remove 18-in. corr. metal pipe; 24 lin. ft. remove 24-in. corr. metal pipe; 244 lin. ft. 15-in. corr. metal pipe; 552 lin. ft. 18-in. do; 522 lin. ft. 24-in. do; 46 lin. ft. 30-in. do. and 34 lin. ft. 36-in. corr. metal pipe, to be installed; 4 corr. metal pipe culvert extensions; 74 demolish headwalls; 85 monuments; furnish water equipment; 728 M. gals. apply water; 1024 lin. ft. remove wooden guard rail; 1128 lin. ft. standard timber guard railing in place; 2 posts for Federal Aid markers; 19.68 miles finish roadway.

State will furnish corrugated metal pipe culverts and hand couplings, f. c. b. cars, Arrowhead siding, Clark County.

PALO ALTO, Santa Clara Co., Cal.—Bids received by city council Feb. 9 under Resolution of Intention No. 948 to improve Palo Alto Ave., Hale, Pope and Dana Sts., etc., were returned to bidders unopened and new bids have been asked to be opened February 25, 7:30 P. M. The action was taken due to the fact that one-half block in Embarcadero Road, bet High and Alma Sts., had been eliminated from the project. The work involves construction of vit. sewer mains and connections, brick manholes, c. i. water mains and galy. iron water pipe connections, fire hydrants, gas mains, concrete storm sewer pipe, cem. conc. pavement, sidewalks, etc. 1011 Act Certified check 10% payable to city required with bid. Plans obtainable from J. F. Byxbee Jr., city engineer.

SANTA ROSA, Sonoma Co., Cal.—J. V. Galbraith, 314 7th St., Petaluma, at \$29,785.60 awarded contract by county supervisors for concrete pavement on the Petaluma to Point Reyes Highway, Section E in the Second Supervisorial District, involving: (1) 9500 cu. yds. excavation; (2) 2465 cu. yds. concrete in pavement (3) 70 cu. yds. concrete in structure and headwalls; (4) 4000 lbs. reinforcing steel; (5) 400 lin. ft. 12-in. corr. metal pipe (6) 44 lin. ft. 18-in. do; (7) 30 lin. ft. 24-in. do; (8) 32 lin. ft. 30-in. do; (9) 16 lin. ft. 36-in. do.

Unit bids of three low bidders follow:

(a) J. V. Galbraith.....	\$29,785.60
(b) Bodenhamer Const. Co.,	30,400.75
(c) W. C. Colley, Berkeley.....	30,528.50

	(A)	(B)	(C)
(1)	\$.60	\$.55	\$.50
(2)	9.00	9.55	9.72
(3)	19.00	18.00	19.00
(4) .....	.05	.0475	.05
(5) .....	.50	.30	.50
(6) .....	.90	.30	.60
(7)	1.20	.50	.70
(8)	1.75	.70	.80
(9)	2.50	.50	1.00

SAN RAFAEL, Marin Co., Cal.—County Surveyor Rodney Messner making surveys for county road from city limits of San Rafael to the Kentfield-Greenbrae road.

SAN LUIS OBISPO, San Luis Obispo Co., Cal.—City council declares intention (346) to improve portions of Pacific street involving grading; 6-inch and 8-inch hydraulic cem. concrete pavement; hyd. cem conc. curbs and walks. 1911 Act. Bond Act 1915. Hearing March 2. Callie M. John, city clerk.

SONORA, Tuolumne Co., Cal.—Until February 19, bids will be received by county supervisors to extend the Big Hill-Longeway road, east of Columbia, for a distance of 13,367 feet. Road will be 20 ft. wide with maximum grade of 6%. Specifications on file in office of county clerk and obtainable from county surveyor.

COLUSA COUNTY, Cal.—Until February 18, 2 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, to surface with plain gravel, 1.5 miles between Maxwell and the north boundary.

SIERRA COUNTY, Cal.—C. R. Adams, Nevada City, at \$123,159 awarded contract by U. S. Bureau of Public Roads, San Francisco, for grading and placing crushed rock surfacing on Section No. 3, Shady

Flat-Downville Route No. 26, Yuha Pass National Forest Highway, 4,144 miles in length. Unit bid follows: 28 acres clearing, \$125. 148,000 cu. yds. excav. unclass., \$ 60 295 cu. yds. excav. structure, \$1 278,230 sta. yds. overhaul, \$ 02 6,270 cu. yds. crushed rock surf, \$1.90 400 cu. yds. supp. crushed rock, \$1.90. 400 m. gals. watering, \$2. 41 cu. yds. class A concrete, \$35. 31 cu. yds. class B concrete, \$35. 3,120 lbs. reinf. steel, \$ 08 252 cement rubble masonry, \$12. 1,148 18-in. C. M. pipe in place, \$2. 226 24-in. do, \$3. 350 cu. yds. hand placed embankment, \$2. 118 30-in. do, \$4. 280 cu. yds. hand placed rip-rap, \$2.50. 136 right-of-way monuments, \$3

SANTA BARBARA, Calif.—City council plans the resurfacing of Canyon Perdido St. from Santa Barbara St. to Milpas St.; est. cost \$53,000. Will involve only pavement, the curbs and walks having been eliminated from the plans.

SAN LUIS OBISPO COUNTY, Cal.—Until March 4, 2 P. M., bids will be received by the State Highway Commission to grade and pave with asphalt concrete 9.8 miles between 1.5 miles south of Santa Margarita and Atascadero.

See call for bids under official proposal section in this issue.

SAN BERNARDINO COUNTY, Cal.—Until March 4, 2 P. M., bids will be received by the State Highway Commission to grade and surface with oil treated crushed gravel or stone, 13.6 miles between Cronise Valley and 6 miles west of Baker.

See call for bids under official proposal section in this issue.

SAN FRANCISCO—E. J. Treacy, Call Bldg., at \$1,257.14 awarded contract by Board of Public Works to improve crossing of Oxford and Silliman Sts., involving:

- (a) 63 lin. ft. armored concrete curb;
- (b) 3 brick catchbasins;
- (c) 90 lin. ft. 10-in. V.C.P. culvert;
- (d) 284 sq. ft. 1-course conc. sidewalks;

(e) 328 1/2 sq. ft. asphalt concrete pavement, 2-in. asphalt conc. surface on 6-in. class F concrete base.

Unit bid follows: (a) \$1; (b) \$80; (c) \$1; (d) \$45; (e) \$25; total \$1,257.14.

SAN ANSELMO, Marin Co., Cal.—Until February 24, 8 P. M., bids will be received by F. D. Burrows, city clerk (\$6) to improve Essex Street, involving grading, hyd. cem. concrete curbs, gutters and headwall hyd. ce-

CONTRACTORS' MACHINE WORKS

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nt concrete pave, vit. pipe sewers
ck 1½% branches and laterals, vit.
e lampholes. 1911 Act. Certified
check 10% payable to city required
th bid. Plans on file in office of
rk. 28

SAN FRANCISCO.—City and Coun-
of San Francisco votes bonds of \$2-
000 to finance improvements in
dden Gate Park, road and street
vements and reconstruction and
ground improvements. A tenta-
e listing of the improvements fol-
ws:

Improvement of meadows in Golden Gate Park.....	\$50,000
Side path from Sutro Hgts to Seal Cliff.....	37,500
Foot path from Sutro Heights to 32nd Ave.....	37,500
Foot path to and around Telegraph Hill and other improvements at this point.....	25,000
Footway thru McLaren Pk. connecting Mission St. with San Bruno Ave.....	125,000
Foot path and other improvements in Sunset Square.....	50,000
Improvement of existing roads in Golden Gate Park, including widening of road work will modernize roads in park.....	380,000
Drainage, grading and reconstructing Telegraph Hill.....	35,000
Improvement of Aquatic Pk., Yacht Harbor and Balboa Park.....	330,000
Grading & constructing roadways in Sharp Park in San Mateo County.....	100,000
Total.....	\$1,400,000

Road Improvements	
Grading and reconstructing road around shores of Lake Merced on properties recently acq. from Spring Valley Water Co., est. cost.....	350,000
Grading, reconstructing and widening certain streets and avenues in Sunset District bounded by Lincoln Way, Sloat Blvd., 7th Ave. and Gt. Highway, est. cost.....	225,000
Grading of Clarendon Ave. thru Golden Forest to a connection with 7th Ave. near Relief Home, and construction of road around Elise Mountain and a connection with Clarendon Ave. with fire trails, est. cost.....	150,000
Improvement of Stanley St. Parkway between Alemany Blvd. and Junipero Serra Blvd., est. cost.....	50,000
Grading and reconstructing boulevard to Bernal Heights Blvd., circling top of Bernal Heights, at est. cost.....	100,000
Improvement of roadways & approaches to Laguna Honda Home, est. cost.....	25,000
Total.....	\$ 900,000

Playgrounds	
Improvement of Potrero Hill Playground. (This playground is situated in densely populated section which, at present time, has no facilities of this kind.).....	54,000
Improvement of playground known as Bernal Heights, at present time no such facilities are available, est. cost.....	72,000
Improvement of playground at St. Mary's Pk. (located in similar district with similar surroundings, estimated cost.....)	60,000
Improvement of playground known as Kahn Playground (situated in Presidio Reservation on land ceded to Playground Commission for this purpose by U. S. Govt., estimated cost.....)	3,000
Improvement of playground known as Munson Annex.....	2,000
Total.....	\$ 200,000

PACIFIC GROVE, Monterey Co., Cal.—Until March 5, 7:30 P. M., bids will be received by Elgin C. Hurlbert, city clerk (3327) to improve Laurel Ave. bet. Congress Ave. and Willow St., and bet. Willow St. and Alder St., involving cem. conc. curbs and gutters; oil macadam surface pavement, to be composed of graded rock not less than 13 lbs. per sq. ft. and Dur-Emulse emulsified asphalt, not less than 1-gal. per sq. yd.; two conc. catchbasins; cement conc. driveways; 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

PACIFIC GROVE, Monterey Co., Cal.—Granite Const. Co., Watsonville, at \$7,292 awarded contract by city council (3305) to improve Fifth St. bet. Ocean View and Lighthouse Avenues, and Cypress Ave. and Granite St. bet. Lighthouse Ave. and Laurel Ave. and bet. Laurel Ave. and Pine Ave., involving cem. conc. curbs and gutters; oil macadam surface pave. (composed of graded rock not less than 13 lbs. sq. ft.) and Duremulse emulsified asphalt; cem. conc. driveways; 4-in. vit. clay lateral sewers.

PACIFIC GROVE, Monterey Co., Cal.—Granite Const. Co., Watsonville, at \$3,062.50 awarded contract by city council (3308) to improve Grand Ave. bet. Ocean View Ave. and Park Place, involving cem. conc. curbs, oil macadam surface pavement (composed of graded rock not less than 13 lbs. to sq. ft.) and Duremulse emulsified asphalt; cem. conc. driveways; 4-in. vit. clay lateral sewers.

SANTA CRUZ, Santa Cruz Co., Cal.—Carsted & Co., Watsonville, at \$13,851.22 submitted low bid to county supervisors to improve Section 111, Mount Hermon Road in San Lorenzo Road District. Following is a complete list of bids, all taken under advisement:

Carsted & Co.....	\$13,851.22
Earl W. Heple.....	14,935.50
J. L. Connor.....	15,818.79
Larsen Bros.....	16,347.35
W. A. Dontanville.....	19,551.33
Healy Tibbitts Co.....	19,986.29
W. H. Hauser.....	21,603.55
Pacific Constr. Co.....	22,395.30
Chas N. Chittenden.....	25,375.46

SANTA MARIA, Santa Barbara Co., Calif.—City Engineer York Peterson authorized by the Santa Maria city council to prepare plans for paving about ten blocks of city streets, including Cook St., Suey to South Pine, Cypress St. from Broadway to South Pine St. and Chuch St. from Lincoln St. to South Pine. The work will comprise 4-inch asphaltic concrete pavement, curbs and gutters.

NEVADA CITY, Nevada Co., Cal.—City trustees contemplate special

election to decide on using the \$10,000 swimming pool bond fund for street work and extensions to the sewer system, \$5,000 to be applied to each activity.

MODOC COUNTY, Cal.—Until Feb. 26, 2 P. M., bids will be received by C. I. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading Section "A" of Route 11, Lava Beds National Forest Highway in Modoc National Forest, 10,932 miles in length, involving:

- 78.0 acres clearing;
- 95,200 cu. yds. unclassified excavation;
- 360 cu. yds. excavation, structures;
- 17,200 sta. yds. overbank;
- 2,362 lin. ft. Corru. Metal Pipe;
- 10,353 miles finishing earth graded rd;
- 93 cu. yds. Class "B" concrete;
- 914 lb. reinforcing steel;
- 33 right-of-way monuments.

Plans obtainable from engineer on deposit of \$15, returnable, checks for same to be made payable to Federal Reserve Bank of San Francisco.

REDDING, Shasta Co., Cal.—Shasta County supervisors and Siskiyou County supervisors have started proceedings for the formation of a joint highway district to finance construction of a highway extending by the most direct and feasible route from the Pacific Highway at a point two miles south of Mt. Shasta to connect with the northwest entrance to Lassen Volcanic National Park. The county supervisors of Shasta were petitioned to proceed with the formation of such a district.

SAN FRANCISCO—E. J. Treacy, Civil Bldg., at \$1,129.50, awarded contract by Board of Public Works to improve Madison St. bet. Burrows and Feltons Sts. (where not), involving:

- (a) 112 1/2 lin. ft. armored conc. curb, \$1.25;
- (b) 100 lin. ft. 6-in. V.C.P. side sewer, \$1;
- (c) 2,495 sq. ft. asph. conc. pavement, 1 1/2-in. asph. conc. surface on 6-in. class F conc. base, \$35.

MARTINEZ, Contra Costa Co., Cal.—County Surveyor R. R. Arnold making surveys for proposed new road to connect Pittsburg with the Oakland tunnel and the town of Oakley, on a direct line.

MENDOCINO COUNTY, Cal.—Preliminary surveys have been completed by U. S. Bureau of Public Roads, 461 Market St., San Francisco, for the Forest Service's proposed highway linking the Pacific and Redwood highways. The suggested route runs from Longvale, on the Redwood Highway, Mendocino County, to either Orland or Willows, Glenn County. Will be approximately 110 miles in length, costing \$3,500,000. Of this route 51

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miles would be within the California National Forest and the cost would be paid by the Federal Government. County highway districts already tentatively established would defray the costs of remaining stretches on both sides of the Federal Reserve.

SANTA BARBARA, Calif.—Stanley McCormick estate has started preliminary work on new water system and a new sewer system at River Rock, Montecito, to cost \$100,000.

CLARK COUNTY, Nev.—Triangle Rock and Gravel Co., 2548 G St., San Bernardino, Calif., at \$65,875, submitted low bid to Nevada State Highway Commission to reconstruct 19.68 miles of highway in Clark County between the west slope of Mormon Mesa and the Lower Virgin river bridge. Project involves: 77,000 cu. yds. excavation, unclass; 76,544 yds. sta. overhaul; 12.95 miles prepare subgrade and shoulders; 6.73 miles crushed rock or crushed gravel in place; 1000 cu. yds. crushed rock or crushed gravel in stockpile; 13 cu. yds. class A concrete; 17 cu. yds. class B concrete; 46 lin. ft. removing 18-in. corr metal pipe; 24 lin. ft. removing 24-in. corr. metal pipe; 244 lin. ft. 15-in. corr. metal pipe; 552 lin. ft. 18-in. do; 522 lin. ft. 24-in. do; 46 lin. ft. 30-in. do, and 34 lin. ft. 36-in. corr. metal pipe, to be installed; 4 corr metal pipe culvert extensions; 74 demolishing headwalls; 85 monuments; furnish water equipment; 723 M. gals. applying water; 1024 lin. ft. remove wooden guard rail; 1128 lin. ft. standard timber guard railing place; 2 posts for F. A. markers; 19.68 miles finishing roadway

Note: The State of Nevada, Department of Highways, will furnish corrugated metal pipe culverts and hand couplings, 100 yds. crown and hand Siding, Clark County. Engineer's estimate, \$87,139.06.

Complete list of bids follows:
 Triangle Rock and Gravel Co., San Bernardino \$68,875
 A. D. Drumm, Fallon, Nev. 82,822
 Hodeman and MacVicar, Pasadena, Calif. 84,261
 J. N. Tecford, Fallon, Nev. 93,573
 Utah Construction Co., Ogden, Utah 99,523
 Contract for culverts in connection with this project awarded to Flanigan Warehouse Co., Reno, Nev., at \$1489.91.

ELECTRICAL MEN OF DENVER SIGN LABOR AGREEMENT

With one exception, all electrical contractors of Denver who have been employing members of Local Union No. 88, I.E.W., have signed a new labor agreement prepared by a joint committee of the two organizations.

While wage scales have remained the same, union members will benefit by old age pensions and disability and death insurance provided by the employer in a group plan. Contractors have benefited by rule changes concerning overtime work, allowing shifts to use labor-saving devices, method of arbitrating differences which may arise, and the observance by union men of installing wiring under requirements of an Electrical Approval Bureau. The latter furnishes both customer and contractor protection.

If no change is made within two years, the agreement automatically is in effect from year to year. Changes may be made by a joint committee.

SAN JOSE REPORTS \$216,810 BUILDING TOTAL IN JANUARY

M. C. Woodruff, city building inspector of San Jose, reports the issuance of 52 permits during the month of January for improvements involving an expenditure of \$216,810. The total, however, includes a subway project for the Southern Pacific Railroad, estimated to cost \$140,000.

The following is a segregated report of the January activities as compiled by Woodruff:

NEW WORK		
	P'mts	Est. Cost
1-family residences.....	12	\$ 42,150
Serv. sta.....	1	1,250
Lodge Bldgs.....	1	9,000
Pub. Imp., subway.....	1	140,000
Private garages.....	12	1,110
Misc. operations.....	3	600
Totals.....	30	\$194,110

ALTERATIONS		
	P'mts	Est. Cost
Residential Bldgs.....	12	\$ 6,425
Business ".....	7	7,025
Misc. Operations.....	3	9,250
Totals.....	22	\$22,700
Grand Totals.....	52	\$216,810

Blanche Reggiardo will operate from 20 Ninth St. under the firm name of California Building Maintenance Co.

PLANS STARTED FOR UNION DEPOT

San Francisco's need for a great union depot which will serve as a terminal for present and future transcontinental railroads, interstate and interurban stage services to be located in a central part of San Francisco will be studied by a special committee of the San Francisco Chamber of Commerce to be appointed soon by President Leonard V. Cutler. This was the decision of the Board of Directors of the local Chamber yesterday with the added suggestion that the City Planning Commission be invited to participate in a fact-finding survey to be started in the near future.

Necessity for a centralized station as a logical preparation for the handling of vastly increased passenger traffic during coming years was emphasized by the recent decision of the Interstate Commerce Commission granting permission to the Western Pacific Railroad to enter San Francisco, the coming of the Northern Pacific, prospects for bay bridges to the east and north and the rapid growth of stage and bus facilities.

In studying the possibility of a union depot the Chamber of Commerce will assume the leadership. It was said by members of the Board in one of the most important development projects confronting San Francisco in many years. President Cutler will announce the personnel of the Chamber's committee within the next few days, he said.

REPUBLIC STEEL REPORTS NET LOSS

The Republic Steel Corporation, formed early last year by the merger of several steel companies, had a net loss of \$3,522,003.20 for 1930, according to an announcement of company officials at Youngstown, Ohio. The loss is equivalent to \$1.74 a share on the 1,989,212 shares of common stock outstanding.

The announcement said that the figure included operating of constituent and subsidiary companies for the first three months of 1930 so that it embraces a full year's operations of all units in Republic.

CASEY COMPANY INSURES EMPLOYEES

H. E. Casey Company, building material dealers of San Mateo, has put into effect a combined plan of group life and group accident and sickness insurance which provides employees of the company with a large amount of life insurance protection and weekly benefits in the event of non-occupational accidents and sickness. The Travelers Insurance Company, Hartford, Conn., underwrote the policies. The Casey Company is co-operating with its employees by contributing toward the payment of premiums.

All employees of the company were eligible for the protection at the time the plan was made effective, and were insured regardless of physical condition, age and sex if applications were made within a specified period. New employees likewise will be eligible under the same conditions after an initial service of six months.

Under the plan the protection provided for the payment of individual amounts of insurance in the event of death and also the payment of benefits in installments to employees who become permanently and totally disabled from any cause before reaching the age of 60. The disability plan offers weekly benefits in the event of non-occupational accidents and sickness.

In putting the combined plan of insurance in force the Casey Company has become one of around 20,000 employers that have adopted such forms of insurance in co-operation with their employees. The total amount of group life insurance in force at the close of last year was around ten billion dollars, and the benefits to beneficiaries and employees permanently and totally disabled amounted approximately 90 million dollars. Statistics indicate that under group accident and sickness plans one in every seven employees insured received benefits annually. It has been estimated that more than a billion dollars is lost each year to workers in the United States on account of sickness alone.

L. A. GAS TO SPEND \$4,000,000

Principal items of the Los Angeles Gas and Electric Corporation's 1931 construction budget, totaling approximately \$4,000,000, include 20 miles of commercial gas mains; 9,500 gas services; 10,000 gas meters; 4,000 gas regulators; 8,000 electric services; 6,600 electric meters, with the necessary power wires and conduits; a new supervisory control electric substation of 15,000-kva. capacity; and preparation for changing 16,500-volt high lines to 33,000 volts. This latter project will be completed in 1932. Doubling the capacity of the present high lines is necessary because of the difficulty in getting routes for additional lines, company officials announce.

Regional Planning Agencies in the United States have been swollen to the number of 56 by the appointment of county planning commissions in 22 California counties, comprising about one-half the state's area and more than half of its population.

Don and M. J. Dickinson of Santa Rosa, have formed a partnership and will operate under the firm name of Dickinson Building Material Company.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
14	Allen	Jacks	25000
15	Bell	Caillit	25500
16	Hogan	Amatore	4000
17	Strubel	Brueck	3000
18	Associated	Owner	2500
19	Benson	Owner	4000
20	Doelger	Owner	14750
21	Fisher	Owner	2000
22	Globe	Owner	16000
23	Hoyt	Owner	1500
24	Harms	Owner	2000
25	McNab	Coburn	6000
26	Rogers	Owner	4000
27	Rosener	Owner	2800
28	Howell	Johnson	100-90
29	Kavanaugh	Owner	2500
30	Getz	Owner	9000
31	Beckman	Owner	4000
32	Westerlund	Owner	4500
33	Alexander	Armbust	6000
34	Cutler	Owner	3000
35	Galli	Owner	16000
36	Garia	Ragni	1425
37	Lager	Owner	2500
38	Ponza	Hart	1965
39	Petersen	Owner	12800
40	Selzer	Owner	3500
41	St Lukes	Stockholm	25000
42	Van Herrick	Owner	60000
43	Andersen	Owner	2500
44	Conway	Isaac	4000
45	Hallgren	Owner	4500
46	Lagnens	Owner	4500
47	Stern	Cohn	18000
48	Wisendunk	Owner	8000
49	Stoneson	Owner	16500
50	Stoneson	Owner	16500

RESIDENCES

134) E LAKE 64 S Camino Del Mar; two 2-story and basement frame residences.
Owner—H. E. Allen, Inc., % architect, architect—Hyman & Appleton, 68 Post Street.
Contractor—Jacks & Irvine, 74 New Montgomery St. \$25,000

FLM EXCHANGE

135) W HYDE 65 S Eddy Sts.; two-story and basement class B film exchange.
Owner—Bell Bros., Mills Bldg. architect—W. D. Peugh, 333 Montgomery St.
Contractor—Cahill Bros., 206 Sansome Street. \$25,800

DWELLING

136) W POTRERO 163 S 25th Street; one-story and basement frame dwelling.
Owner—J. Hogan, 1226 Potrero Ave. architect—Not Given.
Contractor—F. Amatore, 1292A Hampshire St. \$4000

DWELLING

137) W ELMIRA 60 N Silver Ave.; one-story and basement frame dwelling.
Owner—Mr. and Mrs. F. Strubel, 202 Elmira St.
Plans by Builder.
Contractor—M. Brueck, 600 Bayshore Blvd. \$3000

SERVICE STATION

138) NE POLK and Broadway; one-story class C service station, one-story steel frame canopy and one-story comfort station.
Owner—Associated Oil Co., 79 New Montgomery St.
Plans by Eng. Dept. of Owner. \$2500

DWELLING

(139) E 18th AVE. 175 S Taraval; one-story and basement frame dwelling.
Owner and Builder—A. J. Benson, 158 Miramar Avenue. \$4000
Plans by Owner.

DWELLINGS

(140) E 32nd AVE. 25 S Kirkham St.; five 1-story and basement frame dwellings.
Owner and Builder—H. Doelger, 300 Judah Street.
Plans by Owner. each \$2350

ALTERATIONS

(141) 1020 CLEMENT ST.; alterations to raise dwelling.
Owner—W. Fisher, 1020 Clement St. Architect—Not Given. \$2000

DWELLINGS

(142) W 32nd AVE. 425 S Quintara; four 1-story and basement frame dwellings.
Owner and Builder—Globe Securities Co., 740 Hunter-Dulin Bldg.
Plans by Owner. each \$4000

ALTERATIONS

(143) 325 FREMONT ST.; alterations for office.
Owner and Builder—H. P. Hoyt, 45 Second St.
Plans by Owner. \$1500

INDUSTRIAL BLDG.

(144) W FIFTH ST. 100 S Folsom; one-story class C light industrial building.
Owner and Builder—R. A. Harms, 1217 Stanyan St.
Engineer—V. Sandner, 165 Hillcrest, Oakland. \$3000

REPAIRS

(145) 771 MISSION ST.; repair fire damage.
Owner—Mrs. McNab, 2048 Market St. Architect—Not Given.
Contractor—J. W. Coburn, 2048 Market Street. \$6000

DWELLING

(146) W 14th AVE. 310 S Santiago; one-story and basement frame dwelling.
Owner & Builder—J. W. Rogers, 1695 21st Avenue.
Plans by Owner. \$4000

DWELLINGS

(147) SW BRUSSELS 125 NW Clinstead; two 1-story and basement frame dwellings.
Owner—W. K. Rosener, 100 Nevada Street.
Architect—B. K. Dobkowitz, 425 Monterey Blvd. \$2800

RESIDENCE

(148) S WASHINGTON 242 E Arguello Blvd.; 2-story and basement frame residence.
Owner—E. H. Howell, 909 Hyde St. Architect—H. Allen, 1924 Broadway, Oakland.
Contractor—J. H. Johnson, Hearst Bldg. \$10,000

DWELLING

(149) W 27th AVE. 275 N Santiago; one-story and basement frame dwelling.
Owner and Builder—D. S. Kavanaugh, 1121 Ordway St.
Plans by Owner. \$3500

DWELLING

(150) W 41st AVE. 132 N Geary St.; two 1-story yard basement frame dwellings.
Owner—Sol Getz & Sons, 24th Ave. and Lincoln Way. each \$4500
Plans by Owner.

DWELLING

(151) E ARCH 150 N Garfield; one-story and basement frame dwelling.
Owner and Builder—E. B. Beckman, 577 Bright St. Architect—Not Given. \$4000

DWELLING

(152) S VICENTE 102 W 15th Ave.; one-story and basement frame dwelling.
Owner and Builder—J. V. Westerlund, 2355 28th Avenue. \$4500
Plans by Owner.

DWELLINGS

(153) NE COR. 27th AVE. and Moraga; two 1-story and basement frame dwellings.
Owner—A. M. Alexander. Architect—Not Given.
Contractor—H. W. Armbust, 2472 28th Avenue. each \$3000

STORE

(154) SE 33rd AVE. and Clement St.; one-story frame store.
Owners—M. E. and A. Cutler, 5332 Geary St.
Architect—A. H. Larsen, 447 Sutter Street. \$3000

DWELLINGS

(155) E EIGHTH AVE. 250 N Norciga; four 1-story and basement frame dwellings.
Owner and Builder—R. F. Galli, 1574 28th Avenue. each \$4000
Plans by Owner.

ALTERATIONS

(156) 1974 PALOU; alterations to raise dwelling for garage and remodel dwelling.
Owner—J. Garia. Architect—Not Given.
Contractor—J. Ragni, 443 Bellvue Ave. Daly City. \$1425

REPAIRS

(157) 1080 EDDY ST.; repair fire damage.
Owner—Lager & Franz, 666 Mission. Architect—Not Given. \$3500

ALTERATIONS

(158) E KEARNY 42 N Pacific; alterations to flat.
Owner—J. Ponza, 361 Columbus Ave. Plans by E. G. Hart.
Contractor—E. G. Hart, 666 Mission Street. \$1965

CAPITAL CITY TILE COMPANY

J. C. PALEN
Manager

914 Seventh Street
Sacramento - - - - California

APARTMENTS

(159) SW COR. 43rd AVE. and Geary St.; 2-story and basement frame (4) apartments.
Owner—Mrs. E. Petersen, 1625 Balboa Street.
Architect—A. H. Larsen, 447 Sutter Street. \$12,800

DWELLING

(160) N HEARST 175 E Genessee; one-story and basement frame dwelling.
Owner and Builder—M. Selzer, 562 Hearst Avenue.
Plans by Owner. \$3500

ADDITION

(161) 27th and VALENCIA STS.; 3-story steel and concrete addition to hospital.
Owner—St. Luke's Hospital, 27th and Valencia Sts.
Architect—G. W. Kelham, 315 Montgomery St.
Contractor—C. Stockholm and Sons, Russ Bldg. \$25,000

APARTMENTS

(162) E LAGUNA ST. 100 S Waller; six-story and basement class C (18) apartments.
Owner and Builder—W. Van Herrick, 50 Laguna Street.
Engineer—J. G. Little, 251 Kearny St. \$50,000

DWELLING

(163) E 30th AVE. 100 N Ulloa St.; one-story and basement frame dwelling.
Owner—P. Andersen, 2471 26th Ave.
Plans by B. K. Dobkowitz, 425 Montecrey Blvd. \$3500

DWELLING

(164) N 30th ST. 355 W Noe; one-story and basement frame dwelling.
Owner—M. Conway, 564 30th St.
Architect—Not Given.
Contractor—H. H. Isaac, 151 Parragut. \$4000

DWELLING

(165) E 23rd AVE. 150 N Moraga St.; one-story and basement frame dwelling.
Owner and Builder—A. Hjalgren, 1594 29th Avenue.
Plans by Owner. \$4000

DWELLING

(166) W YORK 30 S 25th St.; two-story and basement frame dwellings.
Owner and Builder—Laguens & Plov, 2220 Mission St.
Architect—F. W. Dinkin, 625 Market Street. \$4500

ALTERATIONS

(167) SW SCOTT and Chestnut Sts.; remodel and improve stores.
Owner—E. Stern, Scott and Chestnut.
Architect—S. Heiman, 605 Market St.
Contractor—L. J. Cohn, 1 De Haro St. \$18,000

DWELLINGS

(168) W CAYUGA 270 S Santa Rosa; two 1-story and basement frame dwelling.
Owner and Builder—A. A. Wisendunk, 1655 San Jose Ave.
Plans by B. K. Dobkowitz, 425 Montecrey Blvd. each \$4000

DWELLINGS

(169) N SEMINOLE 145 E Delano; three 1-story and basement frame dwellings.
Owner and Builder—Stoneson Bros. & Thorinson, 279 Yerba Buena.
Architect—Not Given. each \$3500

DWELLINGS

(170) S SEMINOLE 135 E Delano; three 1-story and basement frame dwellings.
Owner and Builder—Stoneson Bros. & Thorinson, 279 Yerba Buena.
Architect—Not Given. each \$3500

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
29	Allen	Jacks	29223
30	Allen	Zelinsky	1700
31	Allen	Klimm	2400
32	Strubel	Brueck	3600

(15) S WASHINGTON 242-44¹/₂ East Arguello Blvd E 23-5% x S 127-8¹/₂; all work on residence.
Owner—Dr. Edgar H. and Mrs. Mary Howell.
Architect—Harris Allen, 557 Market Street.
Contractor—J. H. Johnson, Hearst Bldg.
Filed Feb. 6, '31. Dated Jan. 22, '31.
Frame up \$3125
Brown coated 3125
Completed and accepted 3125
Usual 35 days 3125
TOTAL COST, \$12,500

Bond, \$14,000, in favor of Pacific States Savings & Loan Co. as mortgage. Sureties, Fidelity & Deposit Co. of Maryland. Limit, 100 days. Plans and Spec. filed.

RESIDENCES

(29) E LAKE ST. 64-4¹/₂ S Camino Del Mar S 50-0% E 116-10% N 50 W 118-2¹/₂; E Lake St 114-5 S Camino Del Mar S 58-2¹/₂ E 101-10% N 55 W 116-10%; general construction for two residences.
Owner—Harry E. Allen, Inc.
Architect—S. L. Hyman and A. Appleton, 68 Post St.
Contractor—Jacks & Irvine, Inc., Call Bldg.

Filed Feb. 7, '31. Dated Feb. 2, '31.
Foundations completed \$5984.60
Frame up 5984.60
Plastered 5984.60
Completed and accepted 5984.60
Usual 35 days 5984.60
TOTAL COST, \$23,923
Limit, 90 days. Plans and Spec. filed.

(30) PAINTING ON ABOVE.

Contractor—D. Zelinsky & Sons, Inc., 4420 California St.
Filed Feb. 7, '31. Dated Feb. 3, '31.
1st of each month 75%
Usual 35 days 25%
TOTAL COST, \$1700
Limit, as rapidly as possible. Plans and Spec. filed.

(31) HEATING WORK ON ABOVE.

Contractor—F. J. Klimm Co., 456 Ellis Street.
Filed Feb. 7, '31. Dated Feb. 3, '31.
Rough in \$1200
Completed and accepted 600
Usual 35 days 600
TOTAL COST, \$2400
Limit, as rapidly as possible. Plans and Spec. filed.

BUILDING

(32) W ELMIRA about 60 N Silver Ave.; all work for one-story and basement frame building.
Owner—Mr. and Mrs. F. Strubel.
Architect—Not Given.
Contractor—Michael Erueck, 600 Bayshore Highway.
Filed and dated Feb. 9, 1931.
Roof on \$900
Brown coated 900
Accepted 900
Usual 35 days 900
TOTAL COST, \$3600
Limit, 90 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
Feb 4, 1931—LOT 11 BLK 3277 map Mt Davidson Manor. Castle Bldg Co to Henry Horn. Jan 29, 1931	

Feb 4, 1931—NE 18th and Carolina Sts. Kaiser Paving Co to Barrett & Hlpp. January 28, 1931
Feb 3, 1931—N BROADWAY 171-04¹/₂ W Grant Ave N 68-9xN 137-6 Golden State Theatre & Realty Corp to Salihi Bros.
Feb 3, 1931—SW SANSONE ST and Merchant St. Hugo Zimmermann to D. L. Etienfeld. January 22, 1931
Feb 3, 1931—NW TARA 120 SW Niagara Ave SW 29 x NW 103-6, San Miguel Hd Assn. Marshall G. Struthers to Gerald J. Gonyaw. January 31, 1931

Feb 3, 1931—SE LISBON 225 NE Italy Ave NE 25 x SE 100 ptn blk 25 Excl Hd Assn. Charles A. and Zella A. Barca to whom it may concern. January 28, 1931
Feb 6, 1931—N LIEBIG ST 200 N Lessing St. D and E Kennedy to H Erickson. February 2, 1931

Feb 6, 1931—NW CAYUGA AVE 345-826 SW Santa Rosa Ave 25x 110; NW Cayuga Ave 320-826 SW Santa Rosa Avenue 25x110. A A Wesendunk, Jr to whom it may concern. February 6, 1931
Feb 6, 1931—W SAN CARLOS AVE 107 N 21st N 22 x W 75. S J Child to whom it may concern. February 4, 1931

Feb 6, 1931—S MARINA BLVD 153-9 E Broderick 33-9 x S 124-9¹/₂. Camillo Marzo to whom it may concern. January 27, 1931
Feb 6, 1931—480 ELLIS ST. Antonio and A. F. Vayssie to V. F. Pons. February 3, 1931
Feb 6, 1931—W 23rd AVENUE 175 N Moraga N 25 x W 120. G. H. McCarthy to whom it may concern. January 21, 1931

Feb 7, 1931—S VERNANO WAY. J. C. Ireland to whom it may concern. February 4, 1931
Feb 4, 1931—LOTS 29, 30 and 31 Blk 6371A and lots 9, 10 and 11 blk 6371B map Sub 2 Geneva Terraces. Henry and Hazza Stoneson to whom it may concern. January 31, 1931

Feb 7, 1931—S CHESTNUT ST and E Kearny St E 40 x S 68-9. C S Mayes to Argonaut Inv Co. February 6, 1931
Feb 7, 1931—LOT 11 BLK 2, map Heyman Tract No 2. A J Judnick, Jr, a Judnick and J Kambo to whom it may concern. February 6, 1931

Feb 7, 1931—NW APTOS AVE dist 3 NE from SW line lot 15 blk 3267 NE 39 N 53 deg 47 win 49.6 sec W 100 SW 31 S 49 deg 13 min 02.4 sec E 100-162 to beg ptn blk 15 blk 426 map blk 2611 to beg ptn Balboa Terrace Add. Castle Bldg Co to Henry Horn. Feb 4, 1931
Feb 7, 1931—NW TARA ST 149 SW Niagara Ave SW 29 x NW 103-6. M T Struthers to G J Conway. February 5, 1931

Feb 9, 1931—SE BOUNDARY LINE San Pablo Ave dist 10 measured NE along SE bdy line San Pablo Ave from inter with dividing line lots 2 and 3 blk 26 map St Francis Wood Exten No 2 S 26 deg 33 min 50 sec—86-26 SW 38-84 NW 95-49 NE 45 to beg, ptn lots 2, 2A and 3, 3A blk 26 map St Francis Wood Exten No 2. Herman and Johanna Wellnitz to C H Wellnitz. January 15, 1931

Feb 9, 1931—S FLOOD AVE 300 W Detroit 25x112-6. C L Nelson to whom it may concern. Feb 7, 1931
Feb 9, 1931—N FITCH and Oakdale Ave NW 325 NE to NE Hunter Tract SE to NW Pitch SW to beg. N J Suttich to whom it may concern. January 7, 1931

Feb 9, 1931—E 24th AVE 175 South Moraga S 25 x E 120. Fred and Laura Myratt to Aetna Const Co. February 7, 1931

LIENS FILED

San Francisco County

Feb 6, 1931—LOTS 20, 21, 22 and 23 Blk 3012 West Portal Park, Barrett & Hill vs C L and H L Hussman, C A and C Morris and C V Haley..... \$4391.34
 Feb 5, 1931—NE McALLISTER and Laguna N 100 x E 30, Joseph W Dolan vs Shelly Estate Co..... \$25
 Feb 4, 1931—E THIRD AVE 300 S, Cornwall S 25 x E 120, OL 180, Incandescent Supply Co to Leroy H and Ada M Branch..... \$118
 Feb. 3, 1931—SW WILDER AVE 335.775 SE Diamond SE 55x55W 100, J H McCallum vs J and E
 Feb 7, 1931—E WEBSTER 84-6 S Vallejo St S 29 x E 91-6, J S Guerin & Co vs J J and E A Weinstein and J C Scherr..... \$66.15
 Feb 9, 1931—SE WOOLSEY 120 SW Somerset SW 30 x SE 100 Blk 2 Paul Tract, Pacific Mill & Cabinet Co vs Serge Maharen..... \$235.60
 Feb 9, 1931—SE WOOLSEY 90 and 120 SW Somerset SW 30 x SE 100, V Lebedeff vs S Maharen..... \$400
 J Hurley..... \$169.03

RELEASE OF LIENS

San Francisco County

Recorded Amount
 Feb 9, 1931—LOT 3 BLK 26 map St Francis Wood Extn No 2, Ready-mix Concrete Ltd to Georgia C Clark, Herman and Johanna Wellnitz..... \$63.75

BUILDING PERMITS

ALAMEDA COUNTY

No. Owner	Contractor	Amt.
101 Coast	Lyons	4800
132 Hansen	Owner	2400
133 Hexem	Owner	3200
134 Roman	Furlong	60000
135 Roth	Owner	7000
136 Jackson	Fox	4150
137 Avella	Taylor	3500
138 Oakland	Immel	6100
139 Zuint	Beckett	1000
140 Douglas	Owner	2900
141 Vaughn	Henderson	2100
142 Leekins	Owner	3000
143 Leekins	Owner	3250
144 Lyon	Owner	3250
145 McCord	Owner	2000
146 Waugh	Owner	8000
147 Rose	Rose	5000
148 U S Refining	Friedman	5000
149 Vila	Owner	4000
150 Reininghaus	Owner	3000
151 Olsen	Owner	1600
152 Ingler	Owner	3850
153 Bartlett	Rockwell	42600
154 Pacific	Haskell	1875
155 Campbell	Owner	2000
156 Abbott	Owner	1000
157 Angwin	Moncz	4000
158 Oakland	Vezy	4266.40
159 Wooley	Owner	3000
160 Beulah	Cuthbertson	2000
161 Money	Owner	5000
162 Steindel	Owner	7000
163 Pfrang	Owner	9000
164 Browne	Hambleton	5070

STORES

(131) W ATHOL AVE. 66 S Cleveland St., OAKLAND; one-story stores.
 Owner—Coast Income Properties, Inc., 2122 Shattuck Ave., Berkeley.
 Architect—Not Given.
 Contractor—W. E. Lyons, 354 Hobart St., Oakland..... \$4800

DWELLING

(132) N REDDING ST. 250 E Kingsland Ave., OAKLAND; one-story 4-room dwelling.
 Owner and Builder—Mrs. Elise Han-

son, 4732 Redding St., Oakland.
 Architect—Not Given..... \$2400

DWELLING

(133) S 106TH AVE. 229 E Breed St., OAKLAND; one-story six-room dwelling and 1-story garage.
 Owner and Builder—Andrew Hexem, 2959 California St., Oakland.
 Architect—Not Given..... \$3200

CHURCH

(134) W EMERSON ST. 60 S Excelsior Ave., OAKLAND; one-story concrete church.
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
 Architect—W. E. Schirmer, 700 21st St., Oakland.
 Contractor—Thos. F. L. Furlong, 460 Jerome Ave., Piedmont..... \$60,000

DWELLING

(135) 955 GROSVENOR PL., OAKLAND; two-story 7-room dwelling.
 Owner and Builder—L. W. Roth, 1349 East 38th St., Oakland.
 Architect—Not Given..... \$7000

RESIDENCE

(136) NO. 565 THE ALAMEDA, BERKELEY. One-story five-room 1-family frame residence.
 Owner—G. R. Jackson, 570 Mandana Blvd., Oakland.
 Architect—Not Given.
 Contractor—Fox Bros., 1484 University Ave., Berkeley..... \$4150

DWELLINGS

(137) W 26th AVE. 156 S Foothill Blvd., OAKLAND; one-story 5-room dwelling and 1-story garage.
 Owner—Frank Avella, 2973 Hopkins St., Oakland.
 Architect—Not Given.
 Contractor—F. S. Taylor, 2973 Hopkins St., Oakland..... \$3800

WALLS

(138) NW COR. MONTICELLO and Fleming Aves., OAKLAND; concrete retaining walls.
 Owner—Oakland Public Schools, 1025 2nd Ave., Oakland.
 Architect—Not Given.
 Contractor—Lee J. Immel 1031 Evelyn Ave., Berkeley..... \$6100

REPAIRS

(139) 2604 FRUITVALE AVE., OAKLAND; fire repairs.
 Owner—S. Zuint.
 Architect—Not Given.
 Contractor—Beckett & Wight, 624 Scenic Ave., Piedmont..... \$1000

ALTERATIONS

(140) 2338 TELEGRAPH AVENUE, BERKELEY; alterations.
 Owner—N. E. Douglass, 1435 Harrison St., Oakland.
 Architect—Not Given..... \$2900

ALTERATIONS

(141) 2225 TELEGRAPH AVENUE, BERKELEY; alterations.
 Owner—Vaughn, 321 Telegraph Ave., Berkeley.
 Architect—Not Given.
 Contractor—H. K. Henderson, 333 30th St., Oakland..... \$2100

DWELLING

(142) 2915 SHEFFIELD ST., OAKLAND; one-story 5-room dwelling.
 Owner and Builder—C. W. Leekins, 1650 Hopkins St., Oakland.
 Architect—Not Given..... \$3000

DWELLING

(143) 2921 SHEFFIELD AVE., OAKLAND; one-story 5-room dwelling and 1-story garage.
 Owner and Builder—C. W. Leekins, 1650 Hopkins St., Oakland.
 Architect—Not Given..... \$3250

DWELLING

(144) 3501 MOUNTAIN BLVD., OAKLAND; two-story 6-room dwelling.
 Owner and Builder—C. D. Lyon, 6501 Buena Ventura Ave., Oakland.
 Architect—Not Given..... \$3250

DWELLING

(145) S KAPHAM AVE. 115 W Daycoport Ave., OAKLAND; 1-story 4-room dwelling.
 Owner and Builder—J. A. McCord, 245 Davis St.
 Architect—Not Given..... \$2000

STORES

(146) NW COR. BROADWAY AND Shafter Ave., OAKLAND; 1-story stores.
 Owner and Builder—M. L. Wangh, 619 Eldorado Ave., Oakland.
 Architect—Not Given..... \$8000

DWELLING

(147) NO. 3231 FERNSIDE BLVD., ALAMEDA. One-story 6-room frame and stucco dwelling.
 Owner—Mr. and Mrs. W. E. Rose, 68 Garden Road, Bay Farm Island.
 Architect—Owner.
 Contractor—W. E. Rose, 68 Gardeo Road, Bay Farm Island..... \$5000

RETAINING WALL

(148) NO. 2313, BLANDING AVE., ALAMEDA. Concrete retaining wall.
 Owner—U. S. Refining Co., 2313 Blanding Ave., Alameda.
 Architect—Not Given.
 Contractor—Harry Friedman, 2310 1/2 W-Vernon St., Los Angeles..... \$5000

DWELLING

(149) NO. 1427 WASHINGTON AVE., ALBANY. Six-room dwelling.
 Owner—Joe Vila, 1207 Solano Ave., Albany.
 Architect—Not Given..... \$4000

DWELLING

(150) NO. 1360 MARIN AVE., ALBANY. Five-room dwelling.
 Owner—E. Reininghaus, 2717 Channing Way, Berkeley.
 Architect—Not Given..... \$3000

DWELLING

(151) E COOLIDGE AVE. 60 North Delaware St., OAKLAND; 1-story 3-room dwelling.
 Owner and Builder—S. Oisen, 2800 Delaware St., Oakland.
 Architect—Not Given..... \$1600

DWELLING

(152) 150 ALTA ROAD, OAKLAND; one-story 6-room dwelling and 1-story garage.
 Owner and Builder—C. L. Ingler, 6036 Colby St., Oakland.
 Architect—Not Given..... \$3850

APARTMENTS

(153) SW COR. 56th St. and Shattuck Ave., OAKLAND; three-story 57-room apartments.
 Owner—R. E. Bartlett, Rock Lane, Berkeley.
 Architect—Not Given.
 Contractor—N. E. Rockwell, 349 38th St., Oakland..... \$42,000

ALTERATIONS

(154) 1315 SEVENTH ST., OAKLAND; alterations to warehouse.
 Owner—Pacific Mfg. Co. Hobart and Webster Sts., Oakland.
 Architect—Not Given.
 Contractor—A. A. Haskell, 255 Ridgeway, Oakland..... \$1875

DWELLING

(155) S BAYO ST. 85 E Patterson, OAKLAND; one-story five-room dwelling.
 Owner and Builder—Katharine Campbell, 3898 Patterson Ave., Oakland.
 Architect—Not Given..... \$2000

RESIDENCE
(156) NO. 1170 1/2 CRAGMONT AVE., BERKELEY. One-story 3-room 1 family frame residence.
Owner—Park Abbott, 1170 Cragmont Ave., Berkeley.
Architect—Not Given. \$1600

DWELLING
(157) 1336 CLEMENS ROAD, OAKLAND; one-story 6-room dwelling.
Owner—W. S. Angwin.
Architect—Not Given.
Contractor—A. H. Monez, 4350 Arden Place, Oakland. \$4000

SCHOOL
(158) NW COR. FOOTHILL Blvd. and 47th Ave., OAKLAND; three-story 94-room concrete school.
Owner—Oakland Public Schools, 1025 Second Ave., Oakland.
Architect—Charles W. McCall, 1404 Franklin St., Oakland.
Contractor—Chas. D. Vezey & Sons, 3220 Sacramento St., Berkeley. \$426,649

DWELLING
(159) S KANSAS ST. 566 E Laurel Ave., OAKLAND; one-story five-room dwelling.
Owner and Builder—F. T. Wooley, 3306 Vale Ave., Oakland.
Architect—Not Given. \$3000

ADDITION
(160) 4690 TOMPKINS ST., OAKLAND; addition to garage.
Owner—Beniah Rest Home, 4690 Tompkins St., Oakland.
Architect—Not Given.
Contractor—Thos. A. Cuthbertson, 430 Noreiga St., San Francisco. \$2000

DWELLING
(161) 1700 LEIMERT BLVD., OAKLAND; one-story 7-room dwelling.
Owner and Builder—A. H. Monez, 4353 Arden Place, Oakland.
Architect—Not Given. \$5900

DWELLING
(162) 221 BROOKSIDE ST., OAKLAND; two-story 7-room dwelling.
Owner and Builder—Sam Steindel, 38 Northampton Ave., Berkeley.
Architect—Not Given. \$7000

DWELLING
(163) W ROSS ST. Inter Ross Circle, OAKLAND; one-story seven-room dwelling.
Owner and Builder—C. J. Pirang, 6300 Claremont Ave., Oakland.
Architect—Not Given. \$9000

DWELLING
(164) 3165 SHEFFIELD Street, OAKLAND; one-story 5-room dwelling and 1-story garage.
Owner—V. Brown, 5th Ave. and E 14th St., Oakland.
Architect—Not Given.
Contractor—Fred Hambleton, 1005 Chatham Road, Oakland. \$5070

BUILDING CONTRACTS

ALAMEDA COUNTY			
No.	Owner	Contractor	Amt.
23	Brown	Hambelton	3825
24	Texas	Dyer	6142
25	Roman	McLaughlin	258035
			31

RESIDENCE
(23) LOT 18, Mount Vernon Park Tract, Oakland. All work for five-room residence and garage.
Owner—V. T. Brown
Architect—V. Strang.
Contractor—Fred Hambleton, 1005 Chatham St., Oakland.
Filed Feb. 7, '31. Dated Feb. 7, '31.
Roof frame up..... \$ 956 25

1st coat plaster on..... 956.25
When completed..... 956.25
Usual 35 days..... 956.25
TOTAL COST, \$3825.00
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications, none

STATION

(4) W PARK AVE 611-3/4 S Central Ave., Alameda. All work for combination service station and super building, pumps, tanks, etc.
Owner—The Texas Co., Los Angeles.
Architect—Eng. Dept. of Owner.
Contractor—The Dyer Constr. Co., Ray Bldg., Oakland
Filed Feb. 7, '31. Dated Feb. 2, '31.
Lot graded and foundations in 20%
Ready for plaster..... 20%
When plastered..... 20%
When completed..... 20%
Usual 35 days..... 20%
TOTAL COST, \$6142.25
Bond, \$3017.13. Surety, U. S. Fidelity & Guaranty Co. Limit, 35 days. Forfeit, \$15 per day. Plans and specifications filed.

SCHOOL

(25) BOUNDED by Edith St., Dullich Road, Jacobus Ave. and Morpeth St., Oakland; general construction for 3-story school bldg.
Owner—Roman Catholic Archbishop of San Francisco.
Architect—H. A. Minton, Underwood Bldg., San Francisco.
Contractor—James L. McLaughlin Co., 251 Kearny St., San Francisco.
Filed Feb. 9, '31. Dated Feb. 7, '31.
1st of each month..... 75 V
Usual 35 days..... 25%
TOTAL COST, \$258,035
One-year guarantee bond, \$25,083.50.
Bond, \$25,035. Sureties, Aetna Casualty & Surety Co. Forfeit \$100 per day. Limit, Aug. 15, 1931. Plans and Spec. filed.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded Accepted
Feb 5, 1931—LOT 35, Fruitvale Pk Tract, Oakland. Pearl Regan to John D Wieslander. Feb 3, 1931
Feb 5, 1931—4262 GILBERT Street, Oakland. Wm Simi to Fox Bros. February 27, 1931
Feb 4, 1931—NE LE ROY AVE and Hawthorne Ter, Berkeley. Catherine & Melinda C Rider to Walter L Prodriek. January 26, 1931
Feb 4, 1931—LOT 7, BLK A, Regent Park Map No. 3, Berkeley. Lucile Geldert to Victor Devight. January 27, 1931
Feb 3, 1931—TOWN OF MISSION San Jose. Dominican Sisters of Mission San Jose (formerly Female Religious of the Order of St Dominic) to S Rasori. Jan 21, 1931
Feb 9, 1931—2208 DWIGHT WAY, Berkeley. N E and Emma S Lindquist to N E Lindquist. February 9, 1931
Feb 7, 1931—LOT F-132, Fairway Estates, Oakland. Theo R Dienger to whom it may concern. January 2, 1931
Feb 5, 1931—1239 CEDAR ST, Berkeley. J C Martin to whom it may concern. February 4, 1931
Feb 6, 1931—2839 61st AVE, Oakland. F W Conlogue to whom it may concern. January 28, 1931
Feb 6, 1931—2831 61st AVE, Oakland. F W Conlogue to whom it may concern. January 31, 1931
Feb 9, 1931—LOT 10 and Pt Lot 11 Elk 66, map of San Antonio, Oakland. Margaret Elizabeth McNaughton to whom it may concern. February 6, 1931

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
Feb 5, 1931—PTN LOT 53, Gansberger Tract, Eden Twp. W F Garrett doing business as Garrett Mill & Lbr Co vs Antonio M and Francisco M Fidalgo and Julius Hovnitiz	\$50.93
Feb 5, 1931—LOT 17 BLK 4, Thousand Oaks Heights, Berkeley. Al M Pearey vs E R and Fraye M Converse	\$160
Feb 5, 1931—SE TENTH AVE 120 ft east of 22nd St, Oakland. J Burns, \$3,100; Sam Muriuau, \$3,510.60, vs U and Margaret Cavallo	\$7
Feb 3, 1931—PTN LOTS 1 and 2 Blk E, Fourth Avenue Terrace, Oakland. James H Pedgrit vs Mary M M Harris, Mary Langenstein	\$510.55
Feb 2, 1931—SE LINE TENTH AVE 120 ft NE of East 22nd, Oakland. Jas A Davis Co vs Umberto and Margarette Cavallo	\$1,623.96
Feb 7, 1931—3917 FAIRWAY AVE, Oakland. Golden Rule Cement Co vs C Ellis, Ernest R Jarvis, Ernest R Jervis	\$73
Feb 7, 1931—SE LINE OF TENTH AVE 120 ft NE of 22nd St, Oakland. Ray City Abestros Co, Inc vs Umberto and Margarette Cavallo	\$73
Feb 7, 1931—2112 57th AVE, Oakland. Pacific Hardwood Flooring Co vs Elenora Olson, F Dabadie, Associated Hardwood Floor Co	\$40.50
Feb 6, 1931—NW 63rd ST and Telegraph Avenue, Oakland. Lacer Hallett Corp vs Eugene and Sepentina Lonza, McIrose Steel Co	\$381.50

RELEASE OF LIENS

Alameda County

Recorded	Amount
Feb 7, 1931—1443 JOSEPHINE ST, Berkeley. L F Edwards to Nettie C Morgan, Morgan Realty Co, C C Dakin	\$250
Feb 7, 1931—285 LENOX AVE, Oakland. East Bay Sand & Gravel Co to Albert and Emily Kroll	\$833

BUILDING CONTRACTS

SAN MATEO COUNTY

BUNGALOW
LOT 31 BLK 12, Vista Grande. All work for five-room bungalow.
Owner—Maurice Tosch.
Architect—Not Given.
Contractor—Ford Smith.
Filed Feb. 5, '31. Dated Feb. 5, '31.
Roof on..... 25%
Plastered..... 25%
Completed..... 25%
Usual 35 days..... 25%
TOTAL COST, \$700
Bond, none. Limit, 90 working days. Forfeit, plans and specifications, none.

ALTERATIONS

TILTON AVE AND SAN MATEO Drive, San Mateo All work for alterations and additions to frame and stucco church.
Owner—Congregational Church, San Mateo.
Architect—Kent & Hass, 525 Market St., San Francisco.
Contractor—H. H. Larsen Co., 64 South Park, San Francisco.
Filed Feb. 5, '31. Dated Feb. 2, '31.
As work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, \$36,417
Bond, \$18,208.50. Sureties, Thomas J Guilfooy and W. S. Wenthall. Limit 120 working days. Forfeit, none. Plans and specifications filed.

RESIDENCE
1/4 RT LOT 22, Quillota Tract, Atherton. All work for two-story frame and stucco residence.
 Owner—Amy R. Buchanan.
 Architect—John White, 403 Russ Bldg. San Francisco.

Contractor—Oscar L. Cavanaugh, 432 Occidental St., San Mateo.
 Filed Feb. 5, '31. Dated Feb. 2, '31.
 As work progresses..... 75%
 Usual 35 days..... 25%
TOTAL COST, \$30,308
 Bond, none. Limit, 90 working days.
 Forfeit, none. Plans and specifications filed.

SERVICE BLDGS.
LOTS 6 TO 17 INCL. BLK 16, East San Mateo. All work for group of one-story reinforced concrete service buildings.
 Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.
 Architect—Not Given.
 Contractor—H. H. Larsen Co., 64 South Park, San Francisco.

Filed Feb. 3, '31. Dated Jan. 27, '31.
 As work progresses..... 75%
 Usual 35 days..... 25%
TOTAL COST, \$36,247
 Bond, \$36,247. Surety, American Bonding Co. of Maryland. Limit, 100 working days. Forfeit, \$25. Plans and specifications filed.

RESIDENCE
LOT 1 BLK 4, Burlingame Park. All work for two-story frame and stucco residence.
 Owner—Dr. Wade Macomber et al., 1425 Broadway, Burlingame.
 Architect—Jas. H. Mitchell, 369 Pine St., San Francisco.
 Contractor—H. F. Coykendall, Box 594, Redwood City.

Filed Feb. 6, '31. Date Jan. 9, '31.
 As work progresses..... 75%
 Usual 35 days..... 25%
TOTAL COST, \$85,000
 Bond, \$85,000. Surety, Maryland Casualty Co. of Maryland. Limit, forfeit, none. Plans and specifications filed.

Mateo City Homestead. Domenico Baccellì to whom it may concern
 Jan. 30, 1931.....Jan. 20, 1931
Jan. 30, 1931—PART LOT 9 BLK 5, Wellesley Park. Eric Standquist to whom it may concern
 Jan. 30, 1931.....Jan. 20, 1931

Jan. 31, 1931—MENLO COUNTRY Club. Menlo Park Country Club to Louis N. Polhard.....Jan. 17, 1931
Jan. 31, 1931—PART LOT 7 BLK 3, Questa La Bonda. Guy B. Mansford et al to M O Stone. Jan. 26, 1931
Jan. 31, 1931—LOTS 13 AND 14 Blk 4, Huntington Park. Charles N Pratt to whom it may concern
 Jan. 26, 1931.....Jan. 20, 1931

Jan. 31, 1931—ITN LOT 6, West End Homestead. Eugene G Gilbert to whom it may concern
 Jan. 28, 1931.....Jan. 28, 1931

Feb. 4, 1931—LOTS 61 AND 62 BLK 2, Jefferson Park Castle Bldg. Co to Henry Horn.....Jan. 29, 1931

Feb. 4, 1931—LOT 8, Crocker Estate Tract. S A Londini et al to Fred Worden
 Jan. 29, 1931.....Jan. 15, 1931

Feb. 4, 1931—LOT 19 BLK 5, Stanford Park. Myron F Palmer to whom it may concern.....Feb. 2, 1931

Feb. 6, 1931—LOT 18 BLK M, San Bruno. Bradshaw Harrison to Jack Kaiser.....Feb. 4, 1931

Feb. 6, 1931—LOT 14 BLK 7, Woodland Place. B E Schusman to whom it may concern.....Feb. 6, 1931

Feb. 7, 1931—LOT 15 BLK 3 and Lot 19 Blk 3, Jefferson Park. Castle Bldg Co to Henry Horn.....Feb. 4, '31.

Feb. 7, 1931—LOT 1 AND PART Lot 2 Blk 23, San Bruno. Otto Lander et al to whom it may concern.....Feb. 6, 1931

Feb. 7, 1931—LOT 15 BLK M, San Bruno. J R MacDonald to whom it may concern.....Feb. 6, 1931

Feb. 7, 1931—LOT 16 BLK 1, Vista Grande. P J McGrath to S Posen
 Jan. 29, 1931.....Feb. 4, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded Amount
Jan. 30, 1931—LOT 3 BLK 16, Lomita Park. R G Linville vs L R Milne.....\$15

Feb. 5, 1931—LOT 34 BLK 69, Belmonte. Fred Hayden vs Davenport Realty Co......\$268

Feb. 6, 1931—LOT 2 BLK 2, Wooster Whitton & Montgomery Sub, San Mateo. Thomas W Simpson vs L J Clements et al.....\$128

Feb. 6, 1931—LOTS 48 AND 49 BLK 12, Belle Air Park. A Anderson vs L Saunders.....\$39

Feb. 7, 1931—LOT 3 BLK 16, Lomita Park. Edward J Ilde et al to L R Milne et al.....\$43.60

BUILDING PERMITS

SAN JOSE

RESIDENCE, 5-room frame, \$3300; Hester near Park, San Jose; owner

er, Mrs. Lint Everett, 72 S-First St., San Jose; contractor, O E Woodhill, 102 living Ave., San Jose.

RESIDENCE, frame, 5-room, \$1000; Fourth St. near Mission, San Jose; owner and contractor, Geo. D. McCrary, 1027 Clark Way, San Jose.

ALTER Class C business building, \$1700; No. 268 S-First St., San Jose; lessee, W. G. Norris; contractor, H. A. Bridges, 1398 Lincoln St., San Jose.

RESIDENCE, frame, 5-room, \$3800; Spring St. near Ashbury St., San Jose; owner, Molina Mancino, 305 Emory St., San Jose; contractor, G. Guardino, 566 N-Fourth St., San Jose.

ALTER Class C business building, \$1000; SE Santa Clara and Market Sts., San Jose; owner, L Hart & Sons, Premises; contractor, Benj. Quimet, 655 Riverside St., San Jose.

RESIDENCE, frame, 5-room, \$3800; 17th St. near Jullota, San Jose; owner, J. C. Villota, 132 S-20th St., San Jose; contractor, Rollie Williams, 1517 Shasta St., San Jose.

RESIDENCE, frame, 6-room, \$4815; S-Eighth St. near Santa Clara, San Jose; owner, Melba E. Hodges, 1221 Clark St., San Jose; contractor, J. G. Luebben, 843 Delmas Ave., San Jose.

RESIDENCES (2) frame, 5-room ea.; \$3850 each; McDaniel near Park, San Jose; owner and contractor, Wm. H. O'Neil, 1550 McDaniel St., San Jose.

RESIDENCE, 3-room frame, \$1250; Gregory St. near Home, San Jose; owner, Paul Paradiso, 859 Saverker St., San Jose.

ALTER Class C business building, \$1455; No. 235 S-First St., San Jose; lessee, Fred M. Stern, Prem.; contractor, H. A. Bridges, 1398 Lincoln St., San Jose.

BUILDING PERMITS

PALO ALTO

ALTER residence, \$1000; No. 1770 Emerson St., Palo Alto; owner, W. J. Moody, Channing and High Sts., Palo Alto.

RESIDENCE and garage, stucco, \$5000 No. 2370 Tasso St., Palo Alto; owner, Henry Harala, Louis Road, Palo Alto.

SHINGLE dwelling, \$2000; No. 250 Chestnut St., Palo Alto; owner, F. A. Ramos; contractor, H. C. Stewart, Highway, Menlo Park.

RESIDENCE, stucco, \$6000; No. 660 Lincoln Ave., Palo Alto; owner, Andrew Aro, 1143 Webster St., Palo Alto; contractor, Aro & Okerson, 1143 Webster St., Palo Alto.

DWELLING, stucco, \$3000; No. 961

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$4000; W 10 ft. Lot 4 and 30 ft. E Lot 5, 26th Ave., San Mateo; owner, Castle Bldg. Co., 830 Market St., San Francisco; contractor, G. W. Morris, 730 Athens St., San Francisco.

RESIDENCE, \$4000 10 ft. E of Lot 5 Blk 5, 25th Ave., San Mateo; owner, Castle Bldg. Co., 830 Market St., San Francisco; contractor, G. W. Morris, 730 Athens St., San Francisco.

BUNGALOW, \$4000; Part Lots 17, 18 and 19 Blk 13, No. 615 Ninth Ave., San Mateo; owner and contractor, J. H. Clifford, 110 S-Humboldt St., San Mateo.

BUNGALOW, \$5000; Lot A Resub 112 Blk 6, No. 1830 Palm Ave., San Mateo; owner and contractor, Hugo Hutterberg, 29 San Mateo Drive, San Mateo.

BUNGALOW, \$4000; Lot 91, No. 447 State St., San Mateo; owner and contractor, David J. McDonald, 611 Prospect St., San Mateo.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
Jan. 30, 1931—LOT 45 BLK Q, San Bruno. Chas W Chase to whom it may concern.....Jan. 29, 1931
Jan. 30, 1931—LOT 10 BLK 9, San

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE

490 GEARY STREET

Phone FRanklin 9400

San Francisco

College Ave., Palo Alto; owner, C. E. Van Epps.
 RESIDENCE, rustic, \$3000; No. 2129 High St., Palo Alto; owner, G. C. Betts.

BUILDING PERMITS

BURLINGAME

LAUNDRY, Class C, \$3000; Lot 13 Blk 11, California Drive, Burlingame; owner and contractor, T. N. Gesso, 1201 Vancouver St., Burlingame.

BUILDING PERMITS

PALO ALTO

RESIDENCE & garage, stucco, \$5500; No. 119 Lowell Ave., Palo Alto; owner, F. P. Gover and Leon De Mars; architect, Charles Chuetz; contractor, Grover and De Mars.
 RESIDENCE, stucco, \$3000, No. 560 Crescent Drive, West Palo Alto; owner and contractor, C. W. Kemper, 125 Bryant St., Palo Alto.

BUILDING PERMITS

REDWOOD CITY

SALES and garage building, 1-story concrete and steel, \$12,750; No. 901 El Camino Real, Redwood City; owner and contractor, Kernan Robson, 237 Crescent St., San Anselmo.

DWELLING and garage, frame, \$2000 No. 67 Charter St., Redwood City; owner and contractor, Alexander Denes

BUILDING PERMITS

STOCKTON

SERVICE station, \$3000; No. 1248 E. Miner Ave., Stockton; owner, Joseph H. Daugherty, 1248 E. Miner Ave., Stockton.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded	Accepted
Jan. 21, 1931—VILLA ST. nr Castro St., Mt. View. William P Wright to whom it may concern.....	Jan. 12, 1931
Jan. 21, 1931—LOT 22 and NW 12 50 Lot 23 Blk 8, College Terrace, Palo Alto. Hugh Lindsey to whom it may concern.....	Jan. 20, 1931
Jan. 21, 1931—LOT 13 BLK 3, Restwood Park No. 2, San Jose. Ernest Lorentz et al to whom it may concern.....	Jan. 20, 1931
Jan. 26, 1931—LOT 94, Los Alamos Acres. Sidney Beldin to whom it may concern.....	Jan. 26, 1931
Jan. 27, 1931—SE SENECA ST. and SE Lytton Ave SW 80xSE 90 Part Lot 5 Blk 51, Palo Alto. Evelyn P Spooner to whom it may concern.....	Jan. 24, 1931
Jan. 28, 1931—LOT 7 BLK 58, Seale Addition No. 2, Palo Alto. Alfred and Belea A Johnson to whom it may concern.....	Jan. 28, 1931
Jan. 28, 1931—LOT 11 BLK 2, South Range 3, East, Castro & Calderon Subd., Mt. View. Alex Moreno et al to whom it may concern.....	Jan. 23, 1931
Jan. 29, 1931—NE SAN JOSE-SAN FRANCISCO Charleston Road. Mabel T Sisson to whom it may concern.....	Jan. 28, 1931
Jan. 29, 1931—LOT 14 BLK 3, North	

Glen Residence Park, San Jose. Clyde Alexander to whom it may concern.....

Jan. 26, 1931

Jan. 31, 1931—LOT 6 Adam & Keller Tract, San Jose. L C Rossi to whom it may concern.....

Jan. 26, 1931

Jan. 31, 1931—E THIRTY-FIRST ST. 117.50 S St. James St., San Jose. Vincent J Sunzeri et al to whom it may concern.....

Jan. 28, '31

Jan. 31, 1931—LOT 3, Broadway Court, San Jose. W. H Ackerman to whom it may concern.....

Jan. 30, 1931

LIENS FILED

SANTA CLARA COUNTY

Recorded	Amount
Jan. 29, 1931—SW DANA 50 NW Mt. View Ave., Mt View. The Minton Co vs Wm Dirksen.....	\$121.13

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded	Amount
Jan. 21, 1931—19.746 AC Part Section 24 Tsp T S R 1 West. Broadway Supply Co to E R Kennedy.....	
Jan. 27, 1931—LOT 37, Barron Park San Jose. C B Van Epps to Helen Willaume.....	
Jan. 29, 1931—LOT 12 and all Lot 18, Granger Subdivision. V Philipps to James M Oberki.....	

BUILDING CONTRACTS

MONTEREY COUNTY

PIPE LINE
 FROM BELRIDGE TO COALINGA—Monterey. All work for 6" pipe line approximately 60 miles long from Belridge to a connection with the C.M.P.L. near Coalinga and reconstruct the Coalinga—Monterey pipe line from a point near Coalinga to Monterey.
 Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
 Architect—Not Given.
 Contractor—Hutchinson Co., 1450 Harrison St., Oakland.
 As work progresses..... 75%
 Usual 35 days..... 25%
 TOTAL COST, \$169,000.
 Bond, \$169,000. Surety, Fidelity & Deposit Co. of Maryland. Limit, 90 calendar days. Forfeit, none. Plans and specifications filed.

ALTERATIONS & ADDITIONS
 LOT 2 BLK 39, Monterey Peninsula County Club Property Sub. No. 1; alterations and additions to present house.

Owner—R. M. Cuthbert, Carmel.
 Architect—Herman Krause, San Jose.
 Contractor—A. R. Calvelli and M. W. Reese, Carmel.
 Filed Feb. 2, '31. Dated Jan. 30, '31.
 1st and 15th of each month..... 75%
 Usual 35 days..... 25%
 TOTAL COST, \$5669
 Plans and Spec. filed.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded	Accepted
Jan. 31, 1931—PART BLK 1, Map of a portion of Salinas City. Serafino and Elvira to H D Coon.....	Jan. 31, 1931
Feb. 2, 1931—LOTS 6 AND 7 BLK 5, Lakeside Tract, Monterey. William Buick to E H Sundberg.....	Jan. 30, 1931
Feb. 2, 1931—LOT 1 BLK 23, Map	

of Monte Regio No. 1, Monterey. Frank and Nadeline L Bennett to W C Mann.....

Jan. 31, 1931

Feb. 3, 1931—PART LOT 1 BLK 3, N Merritt St., Map of town of Castroville. Monterey Co. Trust & Savings Bank to Hugh W Constock.....

Jan. 26, 1931

Feb. 3, 1931—LOT 14 BLK 1, Map of Villa Del Monte. Harry H Schultze to whom it may concern.....

Jan. 29, 1931

Feb. 3, 1931—E 1/2 LOTS 8 AND 10 Blk 14, Riker & Jackson Survey, Salinas. Jack and Isabel Renton to Wallace L Richmond. Jan. 30, '31

Feb. 4, 1931—LOT 32 BLK 2 Map No. 2, Lakeside Tract. Charles & Wendia C Williams to whom it may concern.....

Feb. 3, 1931

Feb. 5, 1931—LOT 16 BLK 1, Map of No. 2 of Lakeside Tract. A W and Carrie E Stratton to whom it may concern.....

Feb. 3, 1931

Feb. 5, 1931—BEG. AT POINT Eastern line of Capitol St. dividing Lots 2 and 6 Blk E 11 Map of Riker & Jackson Survey, Monterey. W F and Kate Schrest to W F Schrest.....

Feb. 3, 1931

Feb. 5, 1931—LOTS 11 AND 12 Blk 22, Map of Riker & Jackson Survey. W F and Kate Schrest to W F Schrest.....

Feb. 3, 1931

Feb. 5, 1931—LOT 5 BLK 3, Maple Park Addition No. 2, Monterey. J W and Laura A Fontaine to Bruce E Baird.....

Feb. 4, 1931

LIENS FILED

MONTEREY COUNTY

Recorded	Amount
Jan. 30, 1931—NO. 238 MAIN ST., (Blue Bell Coffee Shop), Salinas. Tom W Bissett vs Harry G Bell and E A Tarien.....	\$23
Feb. 2, 1931—CASTROVILLE. Joe Cortez vs D Pieri and M P McGuire.....	\$56
Feb. 2, 1931—CASTROVILLE. Ross Cortez vs D Pieri and M P McGuire.....	\$62.50
Feb. 3, 1931—LOT 52, Clark City. L W Hooper vs O F Vail and Alfred Johnson.....	\$96.55
Feb. 6, 1931—S BOUNDARY OF Monterey-Castroville County Road R S Tice vs T A Work and Christopher Rosales.....	\$54.91
Feb. 6, 1931—LOT 13 BLK 158 Map of First Addition to Carmel Woods Ed Simpson vs Milton and Sade Latham & Wade O Halsted.....	\$423.19
Feb. 6, 1931—LOT 13 BLK 158, Map of First Addn to Carmel Woods. T A Work Jr and Stuart A Work, \$902.51. Tynan Lumber Co. \$245.94 A. Marotta and Mario Marotta, \$174.80 vs Milton and Sade Latham and Wade O Halsted.....	

COMPLETION NOTICES

SONOMA COUNTY

Recorded	Accepted
Feb. 4, 1931—PETALUMA (Westerterp Bros Garage Site.) Westerterp Bros to Robert Stetson.....	Jan. 21, 1931
Feb. 4, 1931—LOT 5 BLK 6, Proctors Terrace. H F Wilson to Mutual Home Builders Assn.....	Feb. 3, 1931
Feb. 5, 1931—S FIRST ST. 100 ft. W of West St., Cloverdale. John A Thompson to J E Bentley.....	Feb. 2, 1931
Feb. 5, 1931—LOT 11 and 1 1/2 Lot 10 Blk 4, Proctor Terrace, Santa Rosa. Cuthbert M Fleissner to	

Mutual Home Builders Assn.....
 Feb. 3, 1931
 5, 1931—LOT 4 BLK 6, Proctor
 Terrace, Santa Rosa. Harold F
 Vilson to Mutual Home Builders
 associationFeb. 3 1931
 29, 1931—W H ST., bet. 4th and
 5th Sts., Santa Rosa. G D McNear
 (successor of Est Leonard Howarth)
 W L Prncrter. Jan. 26, 1931
 L. 30, 1931—NO. 511 BARNETT
 T., Santa Rosa. Marshall Max-
 well to whom it may concern .
 Jan. 30, 1931

2636 Olive Ave., Fresno; owner,
 M. Manoglian, 2642 Olive St.,
 Fresno.
WAREHOUSE, \$13,000; Ventura and
 H Sts, Fresno; owner, F. J. Dow
 3329 Huntington St., Fresno; con-
 tractor, W. T. Harris, 677 Mc-
 Kinley St., Fresno.
RESIDENCE, 3-room and garage,
 \$9000; 3608 Folsom Blvd., Sacra-
 mento; owner and contractor,
 John Simmons, 4301 T St., Sacra-
 mento.
RESIDENCE, 6-room, \$5600; No. 616
 38th St., Sacramento; owner P.
 Lopez, 311 41st St., Sacramento.
THEATRE, \$450,000; No. 1009 L St.,
 Sacramento; owner, Warner Bros.
 Corp., Los Angeles.
ADDITION, \$2000; No. 1531 N St., Sacra-
 mento; owner, Peter Bartle,
 Premises.

Sacramento, California, until 2 o'clock
 P. M. on March 4, 1931, at which
 time they will be publicly opened and
 read, for construction in accordance
 with the specifications therefor, to
 which special reference is made, of
 portions of State Highway, as follows:
 San Mateo and Santa Clara Coun-
 ties, a reinforced concrete girder
 bridge across San Francisco Creek
 at Palo Alto (V-S-M. & SCL-68-D&A),
 consisting of three 27-foot spans on
 concrete pile bents.
 San Luis Obispo County, between
 1.5 miles south of San Margarita
 and Atascadero (V-SLO-2-C & D), about
 nine and eight-tenths (9.8) miles in
 length, to be graded and paved with
 asphalt concrete.
 Santa Barbara County, a reinforced
 concrete arch bridge across Gaviota
 Creek (V-S-B-2-E), consisting of one
 100' 0" span.

San Bernardino County, between
 Cronise Valley and six miles west of
 Baker (VIII-SBD-31-J, K), about thir-
 teen and six-tenths (13.6) miles in
 length, to be graded and surfaced with
 all treated crushed gravel or stone.
 Proposal forms will be issued only
 to those Contractors who have fur-
 nished a verified statement of ex-
 perience and financial condition in
 accordance with the provisions of
 Chapter 44, Statutes of 1929, and
 whose statements so furnished are
 satisfactory to the Department of
 Public Works. Bids will not be ac-
 cepted from a Contractor to whom a
 proposal form has not been issued by
 the Department of Public Works.
 Plans may be seen, and forms of
 proposal, bonds, contract and speci-
 fications may be obtained at the said
 office and they may be seen at the of-
 fices of the District Engineers at Los
 Angeles and San Francisco, and at
 the office of the District Engineer of
 the district in which the work is
 situated. The District Engineers' of-
 fices are located at Eureka, Redding,
 Sacramento, San Francisco, San Luis
 Obispo, Fresno Los Angeles, San
 Bernardino and Bishop.

A representative from the District
 office will be available to accompany
 prospective bidders for an inspection
 of the work herein contemplated, and
 Contractors are urged to investigate
 the location, character and quantity
 of work to be done, with a represen-
 tative of the Division of Highways. It
 is requested that arrangements for
 joint field inspection be made as far
 in advance as possible. Detailed in-
 formation concerning the proposed
 work may be obtained from the dis-
 trict office.
 No bid will be received unless it is
 made on a blank form furnished by
 the State Highway Engineer. The
 special attention of prospective bid-
 ders is called to the "Proposal Re-
 quirements and Conditions" annexed
 to the blank form of proposal, for full
 directions as to bidding, etc.
 The Department of Public Works
 reserves the right to reject any or all
 bids or to accept the bid deemed for
 the best interests of the State.
**DEPARTMENT OF PUBLIC WORKS,
 DIVISION OF HIGHWAYS,
 C. H. PURCELL,
 State Highway Engineer,
 Dated February 4, 1931.**

San Joaquin County supervisors
 have rejected the request of the dis-
 trict attorney to permit inmates of
 the county jail to engage in county
 work. The supervisors rescinded a
 prior order of the board that the sher-
 iff be authorized to allow the pris-
 oners to work outside the jail.

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 b. 5, 1931—LOTS 15 AND 16 BLK
 C, Am. No. 2, Berkeley Park,
 Vest Bros Roofing Co vs Mary
 Nashy and Florence Garcia. \$158.25
 1, 30, 1931—N SPENCER AVE
 00 E Mendocino Ave., Santa
 Rosa. C W Hansen vs Frank A
 and Grace R White. \$190.05

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 b. 5, 1931—NO. 445 OCEAN VIEW
 Ave., Berkeley. Florence Garcia to
 Vest Bros Roofing Co. Jan. 29, 1931
 b. 5, 1931—LOTS 12 AND 13 BLK
 I, Amended Map of Portion of
 Grand View Terrace. Bessie C
 Rose to E E Rose. Jan. 31, 1931
 4, 1931—PTN LOT 4, Willis Ad-
 dition to Antioch. Joy Landen
 Bowman and Retha Bowman to
 Frank Dragon. Jan. 31, 1931
 b. 3, 1931—PTN RANCHO ACA-
 nias, containing 1 acre. E P
 Soule to whom it may concern.
 Jan. 22, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 1, 1931—LOTS 20 AND 21 BLK
 I, Pullman Townsite. John Fa-
 rramia vs Catherina Barbero. \$1493.96

BUILDING CONTRACTS

SACRAMENTO COUNTY

BRIDGE
 TWENTY-SECOND AND Y STS.,
 Sacramento. All work for garage
 owner—Ellsworth Harrold, 712 12th
 St., Sacramento.
 Architect—Not Given
 Contractor—Chas. J. Guth and Carl
 L. Fox, 1528 27th St., Sacramento.
 Dated Feb. 4, '31. Dated Feb. 2, '31.
 TOTAL COST, \$15,996
BRIDGE, public, \$16,500; No. 2251 Y
 St., Sacramento; owner, Ellsworth
 Harrold, 712 12th St., Sacramento
 contractor, Guth & Fox, 1528 27th
 St., Sacramento.
RESIDENCE, 6-room, \$7000; No. 2965
 Govan Way, Sacramento; owner,
 Dr. W. H. Luck, 1041 33rd St.,
 Sacramento; contractor, Jas T.
 Bunsdall, 1424 35th St., Sacra-
 mento.
ADDITION, second story, \$4500; No.
 3433 5th Ave., Sacramento; own-
 er, H. C. Muddox, 2030 K St.,
 Sacramento.
DD Two rooms, \$1500; No 4651 U
 St., Sacramenao; owner, Grace
 Henry, 4651 U St, Sacramento;
 contractor, Earl Long.
WELLING and garage, \$3000; No.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 Feb. 4, 1931—LOT 27 BLK 50,
 Fresno John C Tuck to W T
 HarrisFeb. 2, 1931
 Feb. 4, 1931—LOTS 18 AND 19 BLK
 1, Safford Terrace, Fresno. An-
 drew Chitty to whom it may con-
 cernFeb. 2, 1931
 Feb. 3, 1931—LOTS 31 AND 32 BLK
 40, Arlington Heights Terrace,
 Fresno. Dwight W Doss to whom
 it may concernFeb. 2, 1931
 Feb. 3, 1931—LOT 1 BLK 11 N Park
 Terrace, Fresno. Jas T Chism
 et ux to whom it may concern.....
 Jan. 29, 1931

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be re-
 ceived at the office of the State High-
 way Engineer, Public Works Building,

ALTERATIONS and additions, \$1000;
 Eldorado and G Sts., Fresno;
 owner, Producers & Growers of
 Central California, Fresno; con-
 tractor, C. J. McIntyre, 774 Eliza-
 beth St., Fresno.
DWELLING, \$3600; No. 750 Collins
 St., Fresno; owner, Mr. Bitter;
 contractor, Adam Haas, 620 E St.,
 Fresno.

BUILDING PERMITS

FRESNO

LIENS FILED

SACRAMENTO COUNTY

Recorded Amount
 Feb. 11, 1931—LOT 1 BLK 1, Wood-
 lake Sub. known as 930, Del Paso
 Blvd., Sacramento. Mapes Lumber
 Co vs Perry Smith and Anna M
 Wilbur\$160.62

COMPLETION NOTICES
SACRAMENTO COUNTY
 Recorded Accepted
 Feb. 7, 1931—E 55 FT. LOT 5, all
 Lot 6 & 15 H. Lot 7, Rodney Ter-
 race, Sacramento. Henry Schmidt
 to whom it may concern. Feb. 3, 1931

WAREHOUSE, \$13,000; Ventura and
 H Sts, Fresno; owner, F. J. Dow
 3329 Huntington St., Fresno; con-
 tractor, W. T. Harris, 677 Mc-
 Kinley St., Fresno.
RESIDENCE, 3-room and garage,
 \$9000; 3608 Folsom Blvd., Sacra-
 mento; owner and contractor,
 John Simmons, 4301 T St., Sacra-
 mento.
RESIDENCE, 6-room, \$5600; No. 616
 38th St., Sacramento; owner P.
 Lopez, 311 41st St., Sacramento.
THEATRE, \$450,000; No. 1009 L St.,
 Sacramento; owner, Warner Bros.
 Corp., Los Angeles.
ADDITION, \$2000; No. 1531 N St., Sacra-
 mento; owner, Peter Bartle,
 Premises.

COMPLETION NOTICES
SACRAMENTO COUNTY
 Recorded Accepted
 Feb. 7, 1931—E 55 FT. LOT 5, all
 Lot 6 & 15 H. Lot 7, Rodney Ter-
 race, Sacramento. Henry Schmidt
 to whom it may concern. Feb. 3, 1931

LIENS FILED
SACRAMENTO COUNTY
 Recorded Amount
 Feb. 11, 1931—LOT 1 BLK 1, Wood-
 lake Sub. known as 930, Del Paso
 Blvd., Sacramento. Mapes Lumber
 Co vs Perry Smith and Anna M
 Wilbur\$160.62

BUILDING PERMITS
FRESNO

ALTERATIONS and additions, \$1000;
 Eldorado and G Sts., Fresno;
 owner, Producers & Growers of
 Central California, Fresno; con-
 tractor, C. J. McIntyre, 774 Eliza-
 beth St., Fresno.
DWELLING, \$3600; No. 750 Collins
 St., Fresno; owner, Mr. Bitter;
 contractor, Adam Haas, 620 E St.,
 Fresno.

COMPLETION NOTICES
FRESNO COUNTY
 Recorded Accepted
 Feb. 4, 1931—LOT 27 BLK 50,
 Fresno John C Tuck to W T
 HarrisFeb. 2, 1931
 Feb. 4, 1931—LOTS 18 AND 19 BLK
 1, Safford Terrace, Fresno. An-
 drew Chitty to whom it may con-
 cernFeb. 2, 1931
 Feb. 3, 1931—LOTS 31 AND 32 BLK
 40, Arlington Heights Terrace,
 Fresno. Dwight W Doss to whom
 it may concernFeb. 2, 1931
 Feb. 3, 1931—LOT 1 BLK 11 N Park
 Terrace, Fresno. Jas T Chism
 et ux to whom it may concern.....
 Jan. 29, 1931

OFFICIAL PROPOSALS
STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS
NOTICE TO CONTRACTORS

SEALED PROPOSALS will be re-
 ceived at the office of the State High-
 way Engineer, Public Works Building,

**L. A. INSPECTOR
REPORTS INSPECTIONS**

The annual report of the Department of Building and Safety of Los Angeles shows the many different phases of building inspection and regulation, according to J. J. Backus, building superintendent.

All masonry and steel construction is inspected to insure proper foundation and walls and to see that all steel is properly set before being covered, says the report. A total of 27,758 masonry building inspections, 6156 Class A building inspections and 213,478 general building inspections were made. In addition 154,892 plumbing inspections and 118,572 electrical inspections were made by the respective divisions.

A survey started in the metropolitan district to correct defects found in existing buildings showed that change of occupancy, whereby a former office building was used for light manufacturing, caused overcrowding of floors, electrical and plumbing installations, and rendered exits and fire retardant equipment inadequate due to increased fire hazard. A total of 10,548 inspections were made. Approximately 65 per cent of all corrections ordered have been completed, involving \$130,000 of electrical reconstruction work and \$60,000 plumbing work in the metropolitan district, besides much work outside this area which was concerned with unroofing, frame work of buildings and exits.

Inspection was made of all major fires to determine their effect on building materials and methods of construction. Investigations have shown that while present methods of construction required by building laws hold fire damage to a minimum, careless maintenance of buildings has been the principal cause of the spread of fires, fire doors being blocked with merchandise and sprinkler systems being left turned off, through oversight, after repairs were finished.

**WESTERN PIPE
EARNINGS IN '30**

Western Pipe and Steel Company of California earned \$3.69 per share, or more than 50 per cent in excess of dividend requirements in 1930, according to the report of the board of directors to the stockholders at the annual meeting in San Francisco last Monday.

Total earnings were \$924,429.52, and final net earnings after all charges were \$527,372.36. The gross income for 1930, \$7,648,685.94. Unfilled orders at December 1 exceeded \$2,200,000, the largest at the beginning of any year in the history of the company. Officials of the company stated that 1930 has been a very successful year, considering the condition of business generally.

A notable feature of the report is that showing the writeoff of \$285,750 for depreciation, equivalent to \$1.66 per share of stock outstanding.

The balance sheet as of December 31, 1930, shows current assets of \$4,102,851 of which \$440,769 was cash. Current liabilities were \$1,745,331, thus establishing a ratio of nearly 2.5 to 1.

Total assets of the corporation were \$7,792,100 and total surplus \$2,850,722, including reserves of \$120,657.

All officers and directors were re-elected. They are J. A. Talbot, president; H. G. Tallerday, executive vice-president; L. N. Slater, vice-president; R. D. Plageman, vice-president; W. G. Aldenhagen, vice-president and secretary; W. G. Aldenhagen, treasurer; directors J. A.

Talbot, H. G. Tallerday, W. G. Aldenhagen, L. N. Slater, J. J. Baumgartner, Francis S. Howard, R. D. Plageman.

**STANDARD EQUIPMENT
PLAN OF FOUNDRIES**

The standardization of equipment used by American foundries manufacturing an innumerable variety of metal products from radiators to steel locomotive frames has just been decided upon by the American Standards Association.

Under the technical leadership of the American Society of Mechanical Engineers' and the American Foundrymen's Association the project will be placed in the hands of a working committee representing manufacturers of foundry equipment, government metallurgical specialists, and important branches of the foundry industries, having an annual production of several billion dollars.

The work will be carried on under the administrative procedure of the American Standards Association and will lead ultimately to the preparation of a group of authoritative American Standards for various types of equipment used in foundries producing iron, steel, and other cast metal products.

Several years ago the various branches of the foundry industry cooperated with safety organizations and other bodies under the procedure of the American Standards Association in the preparation of a national safety code for the protection of foundry workers against injury through accidents.

E. D. Tennant has been appointed field service representative for the Lumber and Allied Products Institute of Southern California in Southwest Los Angeles, Compton, Centinela and Torrance districts.

**BRIDGE FRANCHISE
EXTENSION GRANTED**

Six months' extension of time for beginning construction on the \$15,000,000 Richmond-San Rafael bridge granted by the Board of Supervisors of Contra Costa County. The board intimated that if the directors of the bridge company found it difficult to arrange for finances another extension of six months would be granted.

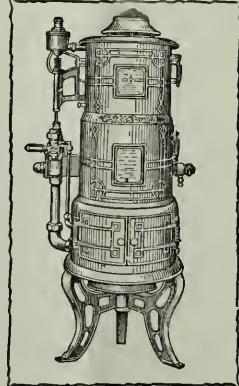
The extension was granted at the request of the San Rafael Ferry Company, which now controls the franchise, originally granted to Oscar H. Klait, president of the American Toll Bridge Company, owners of the Carquinez bridge.

A. B. Tinning, attorney for the ferry company, told the Supervisors meeting that it is the plan of the new franchise holders to make every effort to finance the bridge in San Francisco or the West, but failing that capital will be sought in the East.

William Duerner will operate under the firm name of Aetna Construction Company, according to articles filed with the county clerk's office in San Francisco.

The City of Montreal has been authorized by the Quebec government to borrow money to construct two tunnels under the Lachine Canal. The limit of the cost is \$5,500,000, of which the city, the Montreal Tramways Co. and the federal government will each pay a third.

A marked reduction, compared with the preceding year, in the number of accidents at highway grade crossings is shown by reports for the first nine months of 1930 filed by the railroad with the Interstate Commerce Commission. Such accidents total 3,397 for the first nine-month period, a reduction of 769 compared with the same period in 1929. Fatalities totaled 1,448, a reduction of 263.



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BUILDING *and* ENGINEERING NEWS

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SAN FRANCISCO, CALIF., FEBRUARY 21, 1931

Published Every Saturday
Thirty-first Year, No. 8



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FOREIGN BUILDING DIVISION IS FORMED

Organization of a foreign construction division is announced by William L. Cooper, director of the Bureau of Foreign and Domestic Commerce. This new unit will officially start operations in February with H. M. Bletz of Pennsylvania in charge.

This division, with duties technical, informational and promotional in character, will work in conjunction with the foreign field staff and the various commodity divisions, and coordinate in one office the present foreign construction activities of the bureau. Service will be supplied in connection with construction of dams, irrigation projects, power plants, waterworks, telephone and telegraph works, radio stations, railways, street car lines, air ports, inland waterways, canals, ship construction, harbor improvements, docks, works, terminals, highways and roads, city planning, office buildings, industrial plants, hotels and apartments, and operations of residential construction.

The division will promote American participation in foreign construction in every way practicable. It will collect, review, investigate and disseminate information regarding foreign construction, potential usage and outlet for American machinery, equipment and supplies, facilities for testing and inspection, domestic and foreign standards, specifications, codes and practices in use, certain phases of financing of projects, construction statistics, labor costs, and related matters. It will be used also as a vehicle to investigate and promote in every way practicable correct usage of American products as applied to the construction field, and will endeavor to simplify and standardize methods employed.

An important function of the division will be to contact and service, both here and abroad, public works engineers, construction firms and architects, or, in general, the planner and constructor. The manufacturer and merchant will be serviced largely through the respective commodity divisions of the bureau.

ENGINEERS OF SAN JOSE ELECT

Samuel P. Laverty was elected president of the San Jose Engineers' Club at the annual banquet-meeting held at Wednesday evening. Laverty succeeds John Ford. William D. Letz as elected vice-president and Mark Thomas was re-elected secretary-treasurer. Directors installed were: Harold J. Flannery, W. H. MacLean, E. Rea and H. A. Weigand. A program of entertainment under the direction of Wm. Popp, city engineer of San Jose, was a feature of the meeting.

TITLE INTERESTS CONDEMN LIEN LAWS

Unqualified demand for a notice publicly recorded by holders of mechanics and judgment liens on real estate as a protection for the home owner was voiced by delegates of the American Title Association meeting in Chicago last week.

"Under the present lien laws of most states the owner of the average home and the purchaser of real estate is without protection of any kind from the slumbering lien of which he has no knowledge," said Edward C. Wyckoff of New Jersey.

"We are unanimously of the belief that the working man employed in the construction of a home should have full rights to record his lien under the law, but it's our conviction that the protection of the home itself is paramount. We believe that the lien laws of our states should be changed to compel the recording of all, and particularly mechanics liens, of within an extremely limited period of time following delivery of merchandise upon the premises or labor in connection with the construction."

The American Title Association is composed of three thousand trust and title companies of the United States.

SONOMA PLUMBERS SEEK REGULATIONS

Master Plumbers' Association of Sonoma County has petitioned the Sonoma County supervisors to pass a county ordinance providing for plumbing regulations and inspection outside incorporated districts.

The proposed ordinance is based on an ordinance in effect in San Diego County for over five years and will provide regulations concerning the installation of sanitary fixtures, cess pools, septic tanks, etc.

Inspection of all plumbing installation would be provided in the ordinance by plumbing inspectors appointed by a sanitary board consisting of one member of the board of supervisors, the health officer and one member of the Master Plumbers.

Under the proposed county regulations farmers can install their own plumbing providing it complies with the regulations set forth in the ordinance and providing the installation is approved by the inspector and the board.

The proposed ordinance is similar in nature to the Santa Rosa plumbing inspection ordinance and that in use in other incorporated cities of Sonoma County and elsewhere. The cost of the inspection would be added to the contract price of the building as it is done in incorporated districts where similar ordinances are now in effect.

The proposed ordinance was taken under advisement.

SAFETY CODE FOR DUST EXPLOSIONS

An action unique in the history of the safety movement has just been taken by the American Standards Association with the approval of a national accident prevention code for a process in which not a single serious accident has yet occurred. The new code is aimed at the prevention of dust explosions in pneumatic cleaning plants for pulverized coal, according to an announcement made by the Association. Coal pulverized so finely that it can be shot through a nozzle and burned like a liquid fuel is now being used in many industries.

Each of the fifty other national safety code projects completed or in process of development under the auspices of the American Standards Association has followed a long series of fatalities or injuries or a spectacular disaster which led the industry concerned to request the establishment of a safety code. In the case of pneumatic cleaning plants for pulverized coal, the widespread use of which started only a comparatively few years ago, however, there has not been a single serious dust explosion. It was the belief of the industry and of safety experts that the potential hazard was great enough to warrant the development of a national code which would provide every possible safeguard against disastrous dust explosions. Dust explosions have frequently occurred in coal mines and grain elevators, and in factories where pulverizing processes may, without proper safeguards, fill the air with a fine explosive dust.

The work on the preparation of the code was carried on by a technical committee under the direction of the U. S. Department of Agriculture and the National Fire Protection Association. The technical committee has completed safety codes for the prevention of dust explosions in grain elevators, flour and feed mills, starch factories, pulverizing systems for sugar and cocoa, and in pulverized fuel systems apart from pneumatic cleaning plants. The code contains comprehensive provision for the construction and ventilation of buildings in which pneumatic screening and cleaning equipment and driers are located and for the safeguarding of equipment, and methods of dust collection.

SACTO. EXCHANGE ELECTS OFFICERS

Orland Close was elected president of the Sacramento Builders' Exchange at the annual meeting of that body held in the capitol city last week. W. E. Truesdale was elected vice-president, John Hawley, treasurer, and L. S. Patterson, re-elected secretary.

Directors are Orland Close, W. E. Truesdale, A. E. Sims, E. E. Moor, A. H. Wager, John Redmond, Earl Markwart, Fred Benton, Alfred Gustafson, John Hawley, P. D. Reese.

PROFITS IN COOPERATION ARE CITED BY STEEL CHIEF

(By Chas. F. Abbott, Executive Director, American Institute
of Steel Construction)

If we are to profit from the costly experience of the past two years, we should recognize what honest cooperation can accomplish not only for business but for the peace and happiness of all peoples throughout the world.

Cooperative activities in industry are just as important in peace times as they are during periods of war or other emergencies. Organized programs to include standardization, simplification, reduction of costs, research, extension of markets, advertising and education in better selling methods, and to eliminate misunderstandings and suspicions, provide industry with the hardhood to combat economic barriers and emergencies. These programs enable an industry to take the initiative in cleaning up its own affairs instead of encouraging governmental regulation or control.

The shifting in economic laws during the past few years has brought about unusual conditions in affected industries. New problems have been created that have called for cooperative organizations in order that the interests of each industry might be safeguarded. Those who have heeded the call have profited, while those who have hesitated are experiencing the ill effects of these new economic conditions.

Industrial associations are not only essential in promoting progress, but they are a necessary benefit to members, to customers and to the public. Most of the problems that confront the individual business man are shared equally with his competitors, his customers and the public. He cannot solve them alone. Success will depend upon the cooperation of all interests involved.

It was California that first demonstrated the value of cooperation. The natural advantages of this great state became widely recognized as a result of cooperative effort. The vegetable and fruit packing industries of California have experienced remarkable growth as a result of cooperation and the public have benefited equally with the producers.

Every industry has its problems, some basically economic, others more specifically related to production or selling, that can be overcome more effectively by cooperation than by any individual action. The individual concern unaided cannot cope with this modern day struggle for markets. The forces that are marshalled against it are too great. The battle line is too far-flung. The vision to see that the individual concern can prosper only as the industry prospers, offers the sole hope of survival.

Such cooperative activity, aimed primarily at better merchandising methods, offers the one assurance of prosperity. During this period of transition the future problem is to locate buyers to absorb what we produce, to make them want what we have for sale.

The fruit and vegetable growers of California would be helpless were they to rely upon individual effort. The grower of a thousand crates of lemons could not make his message heard outside of his own county, but by paying a few cents per crate into a common fund, his voice is heard in every city and town in the country.

It is the trade association that offers the greatest security to the individual initiative and future permanency of the smaller plants and individual concerns.

Address delivered at the Annual Conference of the Iron, Steel and Allied Industries of California, February 12, 1931, at Del Monte, Calif.

Despite the tendency toward large plant operation, the bulk of business of all kinds is still being carried on by relatively small concerns. The moderate sized plant remains the typical unit. In spite of the rapid growth of chain stores, department stores and mail order houses, these groups combined are reported to be handling only about 30% of the total retail business.

During the lifetime of Judge Gary he constantly emphasized the need of cooperation. Both Mr. Farrell and Mr. Schwab have referred to the huge savings that are possible if honest cooperation could prevail throughout the Steel Industry.

There is no question but what all these practical benefits could be obtained for the advantage of the whole industry. More considerate, honest and reasonable understandings would follow as a result of cooperation, eliminating all trace of suspicions and selfishness.

One of the highest purposes of an organization is to establish the confidence upon which honesty is based. Without honesty there can be no agreements. Honesty can be established as relationships increase, and confidence will replace suspicion. It is a hopeless task to place too great reliance upon mutual agreements until honesty becomes a part of man's character. There can be no exceptions. And all honest men can support trade agreements that are honest. Illegal agreements are unlawful because they are against public interest. Any movement that does not have as its objective the promotion of public welfare cannot obtain permanent success, and it is foolish of us to advocate such a movement.

If an agreement is made among competitors and later broken it usually results that conditions become worse than those which existed before the agreement was made. The honest intent of the individual must be relied upon, and it is always put to a severe test as long as agreements are made. The law is not nearly every industry are honest and faithfully carrying out their promises.

There must be higher ideals and motives expressed in a comprehensive program that includes constructive activities if the interest and support of the more successful concerns is to be obtained. Busy men have no time for little picayune things in business. Little men take an hour to figure out how they can best out a competitor. Big men are searching for ideas that will build up their business next month and next year.

It should be rung in the ears of every business man that it pays handsomely to be considered a threat to everyone, including competitors and the general public. The millennium has not arrived. We shall probably not see it in the near future, but conditions are improving and busy men are the average are growing better. They are becoming more and more intelligent and better educated. This makes for legitimate advancement, for prosperity and happiness.

Fortunately the structural steel industry grasped the full meaning of

the new form of competition and of its other problems and has adopted policies to meet them. Through the American Institute of Steel Construction it has been able to recognize the changed conditions that confront it. In placing the proper valuation upon public opinion as the controlling factor in industrial progress it has brought into service a program that effectually and legally enables it to meet economic changes and to do so more successfully than by any other method.

Under the guidance of such a constructive force the future will unquestionably bring with it a constantly increasing opportunity for structural steel. Markets will be extended, consumption increased and individual companies, both large and small, will profit through a better appreciation and knowledge of business fundamentals whereby are developed increased sales on a more profitable basis.

Organized cooperation, supporting a well developed practical program, opens the way for important accomplishments that would advance the industry and promote individual success and public welfare. Research to develop new uses, new markets, and reduce costs, advertising, education, and many similar activities can be economically and more effectively promoted than would be possible if entrusted to individual action.

These objectives are important. There are, of course, problems that hold a keener interest for the individual cooperater. He is concerned more directly with those internal questions that affect profits. Present existing laws restrict any program compelling the elimination of all illegal activities such as price agreements, restraint of trade, etc. Education to promote more ethical relations and to establish the fallacy of unfair practices, price cutting and similar evils is permissible and very effective, however. It is this coordination of right thinking and acting incident to such a program that lifts an industry out of most of its difficulties.

There should be no doubt, no hesitation, in the acceptance and application of wholesome cooperative effort by way to a larger business, a better business and satisfactory profits. There is no other answer. Either competition will fall to the level of vicious fighting and trade demoralization, or must adopt a practical plan of cooperation. Men working together sincerely for a common end and a common purpose, can so organize their energies that problems fade before them and limitations recede. It is then that the individual prospers the most.

Napoleon failed because of three things:

1. He stopped listening.
2. He disliked to hear unpleasant news.
3. He under-estimated his competitors.

The industrial and commercial content of the next twenty years will be cyclical in its intensity. It will be a more significant. Sales managers are just beginning to realize that victories are in its dawn, and that the victories of the past are small in comparison with the victories of the future. Just as the master word of yesterday was "Initiative"—so the word of today is "Cooperation" and the

word of tomorrow, "Cooperative Co-ordination."

The efficient association is one reason for America's famed teamwork in business. It serves as an enlightenment of selfishness a generosity on the part of the big and the help of the little. It has already taught us that the main secret of a successful business and a happy life is to climb up from retaliation to reciprocity.

It may be safely said that few phases of a trade association's work are more important than the education of its members to the point where they will realize the value of an established sales price that is fair to both buyer and seller. The interests of the public are also protected by such a move, for the public suffers a distinct loss when sales are made at cut or less than cost.

It is difficult for some to accept the idea of the operating policies in the factory must be based upon conditions of sale. They are too frequently formulated by disregarding those conditions.

Industry must understand and accept the theory of stabilized production. It must recognize the folly of attempting to operate a plant on a basis of 100% capacity output when statistics indicate a demand of but 50% of plant capacity. It must recognize the formula of total cost plus 25% in fixing selling prices.

Is capacity production at a net loss more desirable than 60 or 80% output at a profit? If one competitor wastes its capital assets, must every other also be put in competition with his destructively ignorant policies?

In a number of industries, there has been severe trade depression. There we recognize inefficient methods that have obliterated all semblance of competition. If the tendency in this direction continues at its present rate, it threatens to develop into trade prostration of the worst kind. The best hope of checking this trend lies in convincing sales executives that volume should not be the sole aim of business.

If Moses had given us eleven commandments instead of ten, the eleventh might well have been "Uphold the Sales Price." Short of downright dishonesty, there is nothing so unethical in business as cutting the price for the sake of getting an order.

Mr. James A. Farrell, President of the United States Steel Corporation, 1 Pinehurst, North Carolina, before his annual banquet of the American Institute of Steel Construction, made his statement:

"Business exists for making profits. When profits disappear, business disappears. The satisfaction of labor working for an adequate wage of the consuming public for an adequate supply of goods at reasonable prices, of the investor for a return on his money, of the government for an unimpaird source of tax returns, are all dependent uniformly upon the profitable operation of business. This problem of earning a profit, however, is properly left to the discretion of business management, industry, management and industry should to apply scientific thinking and planning in effecting better methods of the stabilizing of business prosperity."

Steel is the most valuable of all our national accomplishments. It is the most highly prized material either in times of peace or in war periods—often more so than gold itself. Iron ore, the most valuable of all our natural resources, is limited in its supply and should be conserved. It should never be wasted.

It is an inhuman policy that permits the squandering of our resources either by price cutting below a reasonable margin of profit or by over production in excess of known demand.

Stabilization of production and prices under constructive leadership can and should bring prosperity to all branches of the steel industry. Consumers are not demanding price cuts by the steel industry. To resist them is merely to make good on the public trust reposed upon the industry.

Consumers of steel will never complain of prices that include fair profits for the producers. What they want is prices that can be relied upon, that are the same to all users, and that are stabilized. They object to fluctuating prices and concessions enjoyed by a few, or prices that may be cut tomorrow.

In the meantime, notwithstanding, the price wars go merrily on. The price wars are the part of victimized bystanders. Their great hope is that in the near future "service to the buyer through cut prices" will give way to a more intelligent stabilization of prices with a fair profit to all concerned.

Unless price cutting is stopped and prices are advanced to the point where they will show a reasonable profit, then wages must be reduced, increasing the volume of unemployment. The price wars cannot be stopped and the unemployment problem cannot be solved unless profits can be realized.

If we stop to reason the matter out, eliminating all of the disturbing speculative element, would it not be possible that we would find that American business has slipped back into the jungle and must start all over again the slow process of evolution? The law of the jungle is that "might makes right" or its denizens with the sharpest teeth and the longest claws survive in the struggle for existence.

Whenever a seller becomes recognized as a high competitor as a price cutter, his troubles begin. Whenever he submits competitive bids, he becomes the target at which his competitors shoot their prices. The individual who relies upon price cutting as a means of obtaining his business becomes a marked man and his days are numbered. The life of a price cutter is not a pleasant one nor a long one. The trouble with the price cutter is that he spends all of his time trying to close his order. If he would devote as much time to convincing his prospect he would find that when he is convinced he closes himself.

There is no process to anyone when an order is taken at a cut price. The buyer may gain a temporary benefit and the seller has the order, but in the end both buyer and seller lose far more than they gain. The buyer offers encouragement to price demoralization and he can never tell whether his price is right on his future purchases. The seller reduces his profit and in the end he may find himself giving away a part of his capital assets.

Getting is so easy as to cut prices; and nothing is so hard as to get them back when once they have been pulled down. Any child can break an egg by throwing it on the floor, but all the learned scientists in the world cannot pick it up again. Any fool can cut prices, but it requires the combined power of the industry to put them back again.

There is only one way to make money in business. That way is to secure a profit. It is a fact that there are many in every line who are making a profit proves that knowledge and self restraint are not without their rewards.

It takes courage to look a large order squarely in the fact and say "No." If it is not in accord with established terms and prices. Nevertheless, there

are concerns in highly competitive industries that are displaying that courage year in and year out. True, they may not have the big volume, but they have not been drowned in red ink.

Of course, you cannot get all orders without prices being the inducement. In some cases, but there are many other factors worth talking about. When the price is once submitted there should be no further concessions. That is salesmanship.

The future will call for many changes in distribution. Costs must be reduced. Wasteful methods must be eliminated. Efficiency in salesmanship must be developed upon a higher standard than ever before. Those in charge of sales will be called upon to exercise more intensive control and supervision. A profit on every sale will become the banker's formula for estimating worth. There will be no wild and high expiations. Management will be held responsible and judged by its efficiency and aggressiveness.

Destructive competition during the past year has brought consumers to the point where they regard the price as the only consideration in the purchase of steel products. Price cutting has educated buyers to realize that the low price of today may not be the low price of tomorrow. The problem is not so much the cut price as it is the attitude of some of the price cutters who are out to get the business at any price. Invariably they cut their own low price, and such a policy incurs economic loss. The regrettable part is that someone loses his temper and uses his time and money to prevent someone else from getting business to which he may be entitled. Under such conditions a fertile field is being created for competitive materials which may profit from the uncertainty created. We should not forget the old adage "whom fortune wishes to destroy she first makes mad."

Every business enterprise is fundamentally a public service undertaking. It can make good and should be allowed to exist only in proportion as it recognizes the public character of the function it is performing. One of these functions is that of treating its customers alike, relieving them of the necessity of bargaining, and thus allowing them to exert the full economic strength. Uniformity of prices and of treatment until the time comes when there is reason for a uniform change, with full publicity for the facts, is the course upon which the interests of an can be reconciled—and the only one.

The whole structure of business is based upon profit and not upon the mere production or exchange of commodities. Business success demands exactness. The world is filled with men who guess or assume, or are led to understand, that a certain figure is nearly, or approximately, or to all intents, accurate. But they are bossed by the man who knows.

There are many concerns without adequate cost systems and there are others who complain their cost figures with a system of outguessing competition in computing their selling prices. A disregard of cost figures will eventually invite bankruptcy.

Business men can solve this problem to their own satisfaction and to their own financial success if they know accurately their costs and refuse to be bluffed into a sale at a price which will not cover those costs plus a fair profit.

When business men will give heed to the obvious way out of their difficulties they will be in a better position to plan intelligently. When industry holds fast to the fundamental law of profitable business it will become profitable and the world will move toward the goal of success. There is no substitute, however, for in-

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There is no question but what all these practical benefits could be obtained for the advantage of the whole industry. More considerate, honest and reasonable understandings would follow as a result of cooperation, eliminating all trace of suspicions and selfishness.

One of the highest purposes of an organization is to establish the confidence upon which honesty is based. Without honesty there can be no agreements. Honesty can be established as relationships increase, and confidence will replace suspicion. It is a hopeless task to place too great reliance upon mutual agreements until honesty becomes part of man's character. There can be no exceptions. And all honest men can support trade agreements that are honest. Illegal agreements are unlawful because they are against public interest. Any movement that does not have as its objective the promotion of public welfare cannot obtain permanent success, and it is foolish of us to advocate such a movement.

If an agreement is made among competitors and later broken, usually results that conditions become worse than those which existed before the agreement was made. The honest intent of the individual must be relied upon, and it is always put to a severe test as long as agreements exist. The large majority in nearly every industry are honest and faithfully carrying out their promises.

There must be higher ideals and motives expressed in a comprehensive program that includes constructive activities if the interest and support of the more successful concerns is to be obtained. Busy men have no time for little pleasure things in business. Little men take an hour to figure out how they can beat out a competitor. Big men are searching for ideas that will build up their business next month and next year.

It should be rung in the ears of every business man that it pays handsomely to be considerate toward everyone, including competitors and the general public. The millennium has not arrived. We shall probably not see it in the near future, but conditions are improving and business men on the average are growing better. They are becoming more and more intelligent and better educated. This makes for legitimate advancement, for prosperity and happiness.

Fortunately the structural steel industry grasped the full meaning of

the new form of competition and of its other problems and has adopted policies to meet them. Through the American Institute of Steel Construction it has been able to recognize the changed conditions that confront it. In placing the proper valuation upon public opinion as the controlling factor in industrial progress it has brought into service a program that effectually and legally enables it to meet economic changes and to do so more successfully than by any other method.

Under the guidance of such a constructive force the future will unquestionably bring with it a constantly increasing opportunity for structural steel. Markets will be extended, consumption increased and individual companies, both large and small, will profit through a better appreciation and knowledge of business fundamentals whereby are developed increased sales on a more profitable basis.

Organized cooperation, supporting a well developed practical program, opens the way for important accomplishments that would advance the industry and promote individual success and public welfare. Research to develop new uses, new markets, and reduce costs, advertising, education, and many similar activities can be economically and more effectively promoted than would be possible if entrusted to individual action.

These objectives are important. There are, of course, problems that hold a keener interest for the individual cooperator. He is concerned more directly with those internal questions that affect profits. Present existing laws restrict any program compelling the elimination of all illegal activities, such as price agreements, restraint of trade, etc. Education to promote more ethical relations and to establish the fallacy of unfair practices, price cutting and similar evils is permissible and very effective, however. It is this coordination of right thinking and acting incident to such a program that lifts an industry out of most of its difficulties.

There should be no doubt, no hesitation, in the acceptance and application of wholesome cooperative effort among competitors. It offers the only way to a larger business, a better business and satisfactory profits. There is no other answer. Either competition will fall to the level of vicious fighting and trade demoralization, or it will become a practical plan of cooperation. Men working together sincerely for a common end and a common purpose, can so organize their energies that problems fade before them and limitations recede. It is then that the individual prospers the most.

Napoleon failed because of three things:

1. He stopped listening.
2. He disliked to hear unpleasant news.
3. He under-estimated his competitors.

The industrial and commercial context of the next twenty years will be economic in its intensity. It will be vast and magnificent. Sales managers are just beginning to realize that business it is in its dawn, and that the victories of the past are small in comparison with the victories of the future. Just as a practical plan of yesterday was "initiative"—so the word of today is "Cooperation" and the

word of tomorrow, "Cooperative Coordination."

The efficient association is one reason for America's famed teamwork in business. It serves as an enlightening stimulus of generosity. It is the part of the big fellow to help the little fellow. It has already taught us that the main secret of a successful business and a happy life is to climb up from retaliation to reciprocity.

It may be safely said that few phases of a trade association's work are more important than the education of its members to the point where they will realize the value of an established sales price that is fair to both buyer and seller. The interests of the public are also protected by such a move, for the public suffers a distinct loss when sales are made at cost or less than cost.

It is difficult for some to accept the idea that operating policies in the factory must be based upon conditions of sale. They are too frequently formulated by disregarding those conditions.

Industry must understand and accept the theory of stabilized production. It must recognize the folly of attempting to operate a plant on a basis of 100% capacity output when the market indicates a demand of but 95% of plant capacity. It must recognize the spirit of live and let live and overcome that of selfishness which induces others to enter into a war of price cutting in an attempt to keep operating at like capacity. It must adopt the formula of total cost plus profit in fixing selling prices.

Is capacity production at a net loss more desirable than 60 or 80% output at a profit? If one competitor wastes his capital assets, must every other seller in competition match his destructive ignorant policy?

In a number of industries, there has been severe trade depression. There is recognized inefficient methods that are practiced. All become victims of a salesmanship. If the tendency in this direction continues at its present rate, threatens to develop into trade prostration of the worst kind. The best hope of checking this trend lies in the hands of industrial executives that volume should not be the sole aim of business.

If Moses had given us eleven commandments instead of ten, the eleventh might well have been "Uphold the selling price." That of good faith, honesty, there is nothing so unethical in business as cutting the price for the sake of getting an order.

Mr. James A. Farrell, President of the United States Steel Corporation, at Pinehurst, North Carolina, before an annual banquet of the American Institute of Steel Construction, made this statement:

"Business exists for making profits. When profits disappear, business likewise disappears. The satisfaction of labor working for an adequate wage, of the consuming public for an adequate supply of goods at reasonable prices, of the investor for a return on his money, of the government or an unimpaired source of tax returns, are all dependent uniformly on the profitable operation of business. This problem of earning a profit, however, is properly left to the discretion of business management. Consequently, management is in duty bound to apply scientific thinking and planning in effecting better methods for the stabilizing of business productivity."

Steel is the most valuable of all of our national accomplishments, the most highly prized material either in times of peace or in war periods—more so than gold itself. Our national wealth, of all our national resources, is limited in its quantity and should be conserved for profit above all other materials, it should never be wasted.

It is an insane policy that permits the squandering of our resources either by price cutting below a reasonable margin of profit or by over production in excess of known demand. The stabilization of production and prices under constructive leadership can and should bring prosperity to all branches of the steel industry. Consumers are not demanding price cuts by the steel industry. To resist them is merely to make good on the public trust imposed upon the industry.

Consumers of steel will never complain of prices that include fair profits for the producers. What they want is prices that can be relied upon, that are the same to all users, and that are stabilized. They object to fluctuating prices and concessions enjoyed by a few, or prices that may be cut tomorrow.

In the meantime, notwithstanding the price wars so meretricious, the buyers sit on the side line playing the part of victimized bystanders. Their great hope is that in the near future "service to the buyer through cut prices" will give way to a more intelligent stabilization of prices with a fair profit to all concerned.

Unless price cutting is stopped and prices are advanced to the point where they will show a reasonable profit, then wages must be reduced, increased, or the volume of unemployment cut. Wage scales cannot be maintained and the unemployment problem cannot be solved unless profits can be realized.

If we stop to reason the matter out, eliminating all of the disturbing speculative element, would it not be possible that we would find that American business has slipped back into the jungle and must start all over again the slow process of evolution? The law of the jungle is that "might makes right" or its denizens with the sharpest teeth and the longest claws survive in the struggle for existence.

When the seller becomes recognized by his competitors as a price cutter, his troubles begin. Whenever he submits competitive bids, he becomes the target at which his competitors shoot their prices. The individual who relies upon price cutting as a means of obtaining his business becomes a marked man and his days are numbered. The life of a price cutter is not a pleasant one nor a long one. The trouble with the price cutter is that he spends most of his time trying to close the order. If he would devote as much time to convincing his prospect he would find that when he is convinced he closes himself.

There is no credit to anyone when an order is taken at a cut price. The buyer may gain a temporary benefit and the seller has the order, but in the end both buyer and seller lose far more than they gain. The buyer ofers encouragement to price realization and he can never tell whether his price is right on his future purchases. The seller reduces his profit and in the end he may find himself giving away a part of his capital assets.

Nothing is so easy as to cut prices; and nothing is so hard as to get them back when once they have been pulled down. Any child can break an egg by throwing it on the floor, but all the world's best artists in the world cannot pick it up again. Any fool can cut prices, but it requires the combined power of the industry to put them back again.

There is only one way to make money in business. That way is to sell the product at a profit. The fact that there are many in every line who are making a profit proves that knowledge and self-restraint are not without their rewards.

It takes courage to look a large order square in the fact and say "No" if it is not in accord with established terms and prices. Nevertheless, these

are concerns in highly competitive industries that are displaying that courage year in and year out. True, they may not have the big volume, but they have not been drowned in red ink.

Of course, you cannot get all orders without price being the inducement in some cases, but there are many other factors worth talking about. When the price is once submitted there should be no further concessions. That is salesmanship.

The future will call for many changes in distribution. Costs must be reduced. Wasteful methods must be eliminated. Efficiency in salesman-ship must be developed upon a higher standard than ever before. Those in charge of sales will be called upon to exercise more intensive control and supervision. A profit on every sale will become the banker's formula for estimating work. There will be no alibis and no explanations. Management will be held responsible and judged by its efficiency and aggressiveness.

Destructive competition during the past year has brought consumers to the point where they regard low price as the only consideration in the purchase of steel products. Price cutting has educated buyers to realize that the low price of today may not be the low price of tomorrow. The problem is not so much the cut price as it is the attitude of some of the sellers who are out to get the business at any price. Invariably they cut their own low price, and such a policy incurs economic losses. The profitable part is that someone loses his temper and uses his time and money to prevent someone else from getting business to which he may be entitled. Under such conditions a fertile field is being created for competitive materials which may profit from the uncertainty created. We should not forget the old adage "whom fortune wishes to destroy she first makes mad."

Every business enterprise is fundamentally a public service undertaking. It can make good and should be allowed to exist only in proportion as it recognizes the public character of the function it is performing. One of these functions is that of treating its customers alike, relieving them of the necessity of bargaining thus allowing them to exert their full economic strength. Uniformity of prices and of treatment until the time comes when there is reason for a uniform change, with full publicity for the facts, is the course upon which the interests of all can be reconciled—and the only one.

The whole structure of business is based upon profit and not upon the mere production or exchange of commodities. Business success demands exactness. The world is filled with men who guess or assume, or are led to understand, that a certain figure is nearly, or approximately, or to all intents, accurate. But they are possessed by the man who knows.

There are many concerns without adequate cost systems and there are others who supply their cost figures with a system of outguessing competition in computing their selling prices. A disregard of cost figures will eventually invite bankruptcy. Business men can solve this problem to their own satisfaction and to their own financial success if they know accurately their costs and refuse to be bluffed into a sale at a price which will not cover those costs plus a fair profit.

When business men will give heed to the obvious way out of their difficulties they will be in a better position to plan intelligently. When industry holds fast to the fundamental law of profit-making, business will become profit-minded, and that is the long way toward the goal of success. There is no substitute, however, for in-

dividual responsibility, and no hope of effective cooperation without it.

The market value of any business depends upon the amount and regularity of its profits. Real estate and inventories do not add much to market value. The real market value is determined by the efficiency of the whole organization and its profit-making ability. Bankers are searching day and night for the profit-makers and they run away very fast when the profit account is dissatisfying.

Every factor in the industry should cooperate to this end, whether he be the manufacturer, the wholesaler, or the retailer. Their interests are basic—that of pricing, selling and distributing—and to succeed all must do so on a reasonable profitable basis. The big problem is for the manufacturer to recognize his rightful position of leadership. If conditions among jobbers and retailers are dissatisfying, then the manufacturer has shirked his duty. There are many instances on record where manufacturers are selling to the ultimate consumer at prices lower than either the jobber or the retailer could possibly quote. Then again, we experience in many instances the old vicious system of secret rebating with all of its destructive influences. We also find manufacturers who are selling jobbers or retailers of questionable financial standing, thereby encouraging destructive competition on the part of incompetents. We witness manufacturers selling to brokers or those who have no rightful position in the cycle of distribution.

If demoralized price cutting is to be eliminated and the business transacted on a basis of profit, the manufacturer must exert his leadership, and in the formulation of his selling policy, he must define fair practices and then vigorously enforce them without any partiality or deviation. One of the most constructive influences in the establishment of a one price policy, thereby establishing prices and discounts that will be fair to all.

It is obvious that the problem of the distributors becomes the problem of the manufacturers. On the other hand, the distributors cannot expect to profit unless they, on their part, extend to the manufacturer the degree of efficient distribution which it is reasonable to expect. It is only through this recognition of the vital necessity of group conferences on the part of manufacturers, jobbers and retailers representing an industry that unfair, unethical and unsound trade practices can be eliminated. It should be clearly recognized by all that the manufacturer cannot profit at the expense of the jobber or the retailer, and vice versa—the jobber or the retailer cannot profit by pursuing methods contrary to the defined policy of the manufacturer.

There are instances where buyers attempt to make the seller believe that lower prices have been quoted. There are other occasions when the buyer may be sincere in his statement. In the long run, however, it will pay the seller well to pursue the one price policy and submit a price based on a cost that he believes to be fair. He may lose some business but he gains as confidence and self respect become established. Buyers are always attracted by a strong personality. They shy away from the weak-kneed seller. In the last analysis the courageous seller is the winner.

Furthermore, the practice is contrary to the interests of the buyer. While the law of supply and demand operates it is equally sound for the buyer to try to get the best possible price, but to drive the bargain below the line of a fair profit, good quality, and proper service, is poor business in the long run. Substitutions, inferior quality, and inadequate

service logically follow. The buyer suffers and pays a much greater price in the end.

The buyer and the seller are as dependent upon each other as are the producer and distributor of the product. In the long run, buyer and seller alike will be adversely affected by any influence which undermines the stability of the other. The best assurances for the consistent prosperity and progress of both, and of American industry as a whole, lies in cooperative to foster constructive influences and stamp out those, such as price cutting, which are responsible for destructive competition and that menace the welfare of all concerned. It is not the lawful reduction of prices that I condemn. We must recognize the ethical distinction between necessary price reductions and price cutting which is inspired by a selfish desire to obtain more than a reasonable proportion of business.

Prices that are reduced to dispose of excess inventories or to meet emergency conditions confronting a producer would not, and should not, be classified as illegal price cutting. On the other hand, prices that are cut for the purpose of taking business away from others who may be entitled to it, is an objectionable form of price cutting. Under the spirit of the Clayton Act such practices, in my belief, are illegal. Cut prices to obtain more than one's share of business or to obtain business on a price basis alone is another form of price cutting that is reprehensible. To submit one price, only to return a subsequent three or four additional lower prices, thereby starting a price-cutting orgy, represents a vicious form of price cutting.

The Clayton Act plainly condemns price discriminations which are designed for the purpose of lessening competition. The idea behind the Federal Law is in line with what we all believe in, and I feel confident that we could cure the evils of price cutting today were we no longer cut away in the morass of legal technicality that so often follows when we depend entirely upon the courts to correct economic evils.

Reforms are difficult to realize when left to the compulsion of law and administration. Reform must exist in the hearts of men before it is really accomplished. Therefore no statute will ever cure business men of the evils of price cutting until business men cure themselves individually of all desire to indulge in evil practices. We must convince ourselves of the desirability of the right before we can attain it.

Every now and then someone bobs up announcing a newly discovered plan to relieve some industry of all of its difficulties. Meetings are held and a plan is launched with great enthusiasm. But the first stop of the joy ride is usually at the office of the Department of Justice in Washington. As far as I know no one has as yet ever devised a legal plan to get around the Anti-Trust laws and do things that the laws specifically state must not be done.

Most men will agree that prices are lower, that profits have become impossibly small, and that competition is more difficult to meet. It is a strange phenomenon to some as they are left hopelessly struggling for a solution and relief from the perplexing difficulties with which business has become afflicted.

The Anti-Trust Laws, with some of their now obsolete interpretations and many doubtful regulations under them are probably responsible for some of the business man's worries. A modification of these laws with intelligent interpretations would undoubtedly offer relief; but by no means are they alone responsible for the new conditions now confronting our business activities, nor would their repeal re-

move the principal present day problems.

The argument for such a revisor is valid in itself for the Anti-Trust Laws were enacted to prevent restraint of trade rather than to forbid all trade agreements. Therefore, trade agreements should have for their purpose the conservation of a product for the best interest of the public or for the saving of an industry would not necessarily come under the prohibition of the intent of the framers of the statute. It is becoming more and more apparent that production in important fields has outgrown many of the rulings under the Anti-Trust Laws.

While modifications are undoubtedly necessary, it is well to remember that extreme selfishness on the part of some at a disregard of the rights of others represents a principal evil. Until individual selfishness can give way to justifiable fairness with the spirit of the industry of paramount importance, we cannot expect any relief even though the laws might be modified. It is only through honest cooperation that enlightened selfishness can justify itself in the face of competition which is the real hazard.

The cause of price cutting is to be found in the mental qualities of the cutter. Ignorance, misunderstandings, confusion, greed, distrust and antagonisms are the destructive elements. The solution of the problem involves the curing or elimination of these qualities. Failure to do so means continued unprofitable operation.

Our only legal cure of the evil is education. By manufacturing indisputable facts home again and again to every member of an industry the influences that promote price cutting can be reversed.

Education should start by destroying the illusion that greater profits can be obtained from an increase in volume secured by price cutting. When this illusion has been destroyed the root of the price cutting evil will be eliminated.

We can do much to effect this education through cooperation, through coming together and honestly discussing our problems. Around a conference table, in trade association meetings, this education is possible and the circumstances of the rights of individuals.

If the executive heads of each company within an industry cannot put a stop to cut-throat competition and price cutting, then the Government may be forced to do so. Labor unions, in a number of instances, have already taken the matter in hand.

Those who insist upon price cutting and destructive competition as a means of obtaining their business will afford to stop and consider just what may be in store for them. Let us supported by public opinion will insist upon profitable operation of our industries. If the present management cannot succeed then it must step aside for another method of control.

The challenge to industry today is whether we are going to meet this issue and solve it effectively, or whether we are going to invite the Government to do it for us. You have witnessed what happened in Italy. Extreme individualism in industry and trade has been replaced by a state dictator. Russia is doing the same, only through a differing political method.

The people of the United States have declared for a democracy and American industry is confronted with the serious necessity of proving that these economic emergencies can be successfully coped with and solved. Let us these business problems can be solved through cooperative effort and without recourse to governmental interference. This I certainly a time when we should be willing to submerge our wild fe

THE OBSERVER

What He Hears and Sees on His Rounds

An ordinance requiring that all contractors on buildings for which permits are issued by the Los Angeles city building department shall have state licenses was adopted by the city council February 11. The ordinance was recommended by the building and safety commission.

Kern County supervisors will call an election shortly to vote bonds of \$2,500,000 to finance improvement of the county highway system. About \$1,125,000 will be used for immediate paving of old roads, about \$900,000 for work on commercial highways and approximately \$470,000 for building a recreational highway system.

By a vote of thirty-one to two with four not voting the Nevada State Assembly passed A. B. 53, fixing a minimum wage of five dollars for labor on all public work in Nevada. The measure was passed after an effort had been made by Frohlich of Washoe to amend it fixing the wage at four dollars a day.

The proposal of the San Francisco Board of Public Works to write into contractors' specifications that no wage minimum below that set by the Impartial Wage Board be paid on contracts involving city work, has been referred to Assistant City Attorney Henry Heidelberg for an opinion, doubt having arisen as to the authority of the board to write in the provision. The Industrial Association has joined the Building Trades Council and the Labor Council in indorsing the proposal.

After more than a year's work the Health Committee of the San Francisco Board of Supervisors discarded a proposed new ordinance to regulate installation of gas appliance fixtures and named a new committee to draft another plan. Henry Eastwick of the Pacific Gas & Electric Company, E. B. Fitzgerald of the Plumbers' Union, and Frank Kilman, president of the Board of Health, will attempt to frame an ordinance to prevent deaths and accidents from faulty gas fixtures.

With a view to lessening unemployment the Los Angeles city council has set March 5 as the date to vote on proposals to issue bonds of \$5,000,000 of which \$2,000,000 is to finance street improvements, \$1,000,000 for public park development and \$1,000,000 for public playgrounds. Most of the money is to be spent for labor, as little as possible for materials and none for acquisitions.

Dave Petrie, plumber of Napa, has protested to the Napa city council against the practice of out-of-town plumbers undertaking work within the city limits without paying the \$50 license fee. Petrie further charges that only two local plumbers have paid the license fee this year. H. A. Harrold, city engineer, has been instructed to collect from those who are delinquent.

Modern apartments replacing New York's East Side tenements and renting for not more than \$12.50 a month a room are planned by Alfred E. Smith. A group of bankers has subscribed the larger part of the capital needed, he said in asking for financial support for the plan.

Senator Norris, Republican, Nebraska, has introduced a resolution for a Federal Trade Commission investigation of the cement industry with a view to determining if any price agreements exist in violation of the anti-trust laws. The Nebraskaan sought immediate consideration of his proposal, but Senator Kean, Republican, New Jersey, objected.

C. H. Bidwell, mayor of Sacramento and president of the League of California Municipalities has requested the Oakland city council to endorse a bill providing that portions of city streets forming continuations of state highways be part of the state highway system and be repaired from gasoline tax funds. The bill also provides that if streets are opened or widened for the benefit of the state that the expense be borne by the state.

President Hoover has signed the Wagner Bill which enables the Secretary of the Treasury to expedite work on the Federal buildings program authorized by law by authorizing him to obtain by contract without competition topographical surveys of sites, test pits, and borings where such sites have been selected, although sites thereto may not have been vested in the United States; to limit to such number of days as he deems proper the advertising for bids for sites for public buildings; to obtain outside architectural, engineering, technical, or professional services to such extent as he deems necessary in connection with the plans and specifications for Federal buildings which have been specifically authorized to be constructed where the sites have been selected notwithstanding title to such sites may not have been vested in the United States.

Beginning March 1, all the Works and Offices of the Westinghouse Electric and Manufacturing Company will omit Saturday operations, except as involved in meeting a special demand service with customers and others with whom the company does business, according to an announcement by President F. A. Merrick.

Mr. Merrick's announcement states that the plan to be followed for the immediate future is to shorten the working week to the extent represented by the work normally required on Saturday throughout the company. As this reduction of services represents approximately 10 per cent, that amount of reduction will apply to all salaried employees. Similar arrangements have already been put into effect as to employees on an hourly basis.

Mr. Merrick emphasizes the point that this arrangement is solely an emergency measure to spread the work through this period of severe business depression and that normal arrangements will be reinstated with the advent of normal times.

HERE—THERE EVERYWHERE

The annual convention of the Pacific Coast Electrical Association will be held at the Del Monte Hotel, Del Monte, Calif., June 24-26.

The International Association of Electrical Inspectors, Northwest Section, will hold its annual convention at Salem, Oregon, Oct. 5-7, 1931.

U. S. Treasury Department on February 19 issued an official finding to bar entry of lumber and pulpwood from Soviet Russia on the ground it was produced with convict labor.

Delegates to the forty-ninth annual meeting of the National Association of Master Plumbers at Milwaukee in June will be entertained at Kohler, Wis., on June 26, as guests of the Kohler Company, one of the nation's largest manufacturers of plumbing fixtures.

Union carpenters of Merced on last Tuesday voted under protest to the demands of G. B. Pasqualetti, San Francisco contractor, and will work five and a half days weekly in the building of the new \$100,000 Merced Theatre. The Union men had favored a five-day week, with the view to employing more mechanics on the structure.

The annual spring meeting of the Commercial Section of the Northwest Electric Light & Power Association will be held in Spokane, Wash., March 16-18, it is announced by Geo. E. Sullivan of Portland, section chairman. The meeting will follow the general outline of those of recent years in that all sessions will be general sessions at which each committee will present the results of its study on some phase of commercial development within its scope.

Eighty oil burner and accessories manufacturers—a record number—are expected to invade Philadelphia the week of April 12 to 15 for the Eighth Annual Convention and Oil Burner Show. This is the conservative estimate of Harry F. Tapp, executive secretary of the American Oil Burner Association, who reports that 72 exhibitors have already signed up for 120 booths. Convention headquarters will be at the Benjamin Franklin Hotel. Show headquarters will be located across the street in the Gimbel Building.

At a recent meeting of members of the Fresno city council, the Fresno Real Estate Board and the Chamber of Commerce, discussion was given to a \$2,000,000 bond issue to finance the purchase of a site and the erection of a municipal auditorium. The question of a new city hall and jail building was also discussed which would cost an additional \$500,000. It is possible that the bond proposals will be submitted to the voters at the April election.

ALONG THE LINE

As an aftermath of the Oakland paving graft scandal of last year, the City Council of El Cerrito, Contra Costa County, voted to request the resignation of City Engineer Ross Calfee, who has served in that position for the last eight years. Councilman Peter Larson said the city had been adversely criticized by Calfee's testimony in behalf of Harry Lesser, convicted for his part in the paving graft ring in Oakland.

Leroy S. Buffington, 83, architect, who claimed to have originated the skyscraper idea, was found dead in bed Feb. 16, at Minneapolis, Minn., the victim of a heart attack.

R. F. Hammatt retired February 1 from the position of secretary-manager of the California Redwood Association, which position he held for the last ten years.

George A. Posey, county surveyor of Alameda County, has been appointed as official advisor for the town of Livermore in the preparation of a zoning ordinance which will protect the residential districts of the city from encroachment of business establishments.

City Commissioner George Wilhelm and Walter N. Frickefeld, city engineers, have been appointed by the Oakland city council to act as that city's representatives on February 25 in San Francisco, concerning the proposed widening of the Brooklyn Basin and the elimination of Government Island. Representatives of the port commission and the city of Alameda will also be present at the hearing. East bay officials say that they favor the establishment of a wide turning basin for shipping in Brooklyn basin.

Jas. Dean, city manager of Sacramento, in a report to the city commissioners, estimates the cost of a subway under the Sacramento river at \$4,212,000. Preliminary surveys for the project have been made by Fred J. Klaus, city engineer.

V. L. Peterson, engineer for the Tacoma, Wash., public utilities extension division for the past four years, has resigned to accept a position with the U. S. Army in connection with barracks construction at Fort Shafter, near Honolulu.

T. C. Kistner of the architectural firm of T. C. Kistner & Co., of Los Angeles, has been appointed as California representative on the National Council on School Buildings. He was named to the post by William John Cooper, U. S. Commissioner of Education. Mr. Kistner will attend the meeting of the council in Detroit the latter part of the month.

Assemblyman Mathews has offered an amendment to the Nevada state constitution which would permit taxpayers and citizens to determine the need for bond issues themselves instead of having the legislature decide on the question. Mathews believes the legislature has other things to do besides worrying about local bond issues and in addition, he believes, many issues have not the full support of the citizens which they affect but are adopted by the legislature because none of the opposition's arguments reach the legislators' ears.

TRADE LITERATURE

J. Gerald Brennan, former manager of insulating sales for the E. K. Wood Lumber Company of Los Angeles, and for six years with the Celotex Company in California, has been appointed general field representative for the Thermax Corp., 141 Fourth Avenue Building, Seattle. His work will consist of promotion of sales in the western states and will maintain headquarters at Seattle.

S. P. Larsen, for the past four years Northwest manager of the Line Material Company, has been made district sales manager in the Northwest for Hubbard & Company, pole line hardware manufacturers of Pittsburgh, Chicago, and Oakland. He succeeds H. L. Manny, who resigned to become manager of the Seattle office of Maydwell & Hartzell, Inc.

Pacific Electric Manufacturing Co. of San Francisco, announces the appointment of Roy Wilkins as vice-president in charge of engineering. Stockholders have ratified the appointment. Wilkins joined the Pacific Electric Manufacturing Company early in 1928 to act in a consulting capacity. For fifteen years prior to that date he had been associated with the Pacific Gas and Electric Company, and at the time of his resignation was assistant engineer in the division of hydro-electric and transmission engineering.

ARIZONA REJECTS DAY LABOR ON ROADS

By a vote of 36 to 26, the assembly of the Arizona Legislature defeated a bill which provided for the construction of state highways by day labor instead of the contract method which has prevailed heretofore. The measure was urged by Governor Hunt as an unemployment relief measure. Thomas MacDonald, chief of the Bureau of Public Roads, advised the state highway department of Arizona by telegram that Federal aid road work cannot be done by day labor; also that the prevailing wage scale in the state must be maintained on all Federal aid contracts.

YARDS AND DOCKS EXPENDITURES HEAVY

During the last six months of 1930 the Bureau of Yards and Docks, Department of the Navy, in its efforts to speed up construction for relief of unemployment, awarded 164 contracts involving a total of \$4,739,750, which is \$500,000 more than all the work contracted for in the fiscal year ended June 30, 1929, and within \$90,000 of the amount contracted for during the fiscal year ended June 30, 1929.

In addition to the contracts awarded during the last half of 1930 "a vast amount" of new construction has been carried on by day labor, the department reports. The latter will probably run more than \$1,000,000.

Bids have been requested on 10 projects estimated to cost \$1,650,000, including work at Hampton Roads, Pearl Harbor, Hawaii, and Mare Island, Calif. Calling for bids on a \$2,750,000 ammunition depot in the Hawaiian Islands awaits the final decree in condemnation proceedings for a site, now pending.

TRADE NOTES

Under the title "Insulation" C. D. La More, with offices in Los Angeles, San Francisco, Phoenix, and Seattle, has issued catalog of the products of the manufacturers whom he represents.

Type AL knife switches, a new line of switches designed to meet the latest requirements of the National Electric Code and the National Board of Fire Underwriters, are described in Leaflet 20509, a new publication of the Westinghouse Electric and Manufacturing Company. This publication covers the application and construction of these switches, and contains a table including ratings and style numbers. It has been assigned A. I. A. Number 31-D-41.

Catalog No. 4,000 is the third catalog section issued by The Bristol Company, Waterbury, Conn., on the subject of air operated control equipment, and is devoted to accessories made by The Bristol Company and other manufacturers for use with such equipment.

The consolidation of two or more solenoid operated oil circuit breakers into one compact, steel-armored unit is described in the Dec. 15 issue of The Delta Star, published monthly by Delta-Star Electric Company, Chicago.

Vertical triplex single-acting power pumps are described in a recent booklet the Worthington Pump & Machinery Corp., Harrison, N. J.

Illumination, Ltd., recently incorporated to succeed the Henck Co., has opened headquarters at 71-73 Thirteenth Street, Oakland. The new firm will specialize in the sale and distribution of floodlighting equipment and general illumination, particularly airport lighting. R. E. Bernard is president of the company and Chas. L. Henck, illumination engineer.

Insulators for wood poles where guy wires are used are described in Publication No. 404H of the Ohio Brass Company, Mansfield, Ohio, entitled "O-B Wood Guy Strain Insulators."

Type T heavy-duty planer motors for reversing service are the subject of Bulletin No. 267 of the Reliance Electric and Engineering Company, Cleveland, Ohio.

VALUE OF PLANING MILL PRODUCTS LOW

A report just published by the Bureau of the Census shows the value of planing mill products in the U. S. for the year 1929 was \$1,046,528,051, a decrease of 5.6 per cent as compared with the next previous census of the industry taken in 1927.

Production for 1929 is classified as follows: Dressed lumber, including flooring, ceiling and siding, \$492,650,828; doors, \$59,315,987; sash, \$25,282,123; windows and door frames, \$27,699,931; plywood, \$55,085,220; portable houses, \$11,575,152; tanks and vats, \$5,187,047; silo stock, \$3,273,497; miscellaneous millwork and millwork not reported by kind, \$359,827,703; amount received for custom planing, \$5,630,563.

SOUTHERN CONFERENCE ENDORSES MECHANICS LIEN LAW AMENDMENTS

The following resolution was passed at the meeting of the Southern Conference of Builders Exchanges, held at Pasadena, January 20, endorsing the principle of the proposed amendments to the California Mechanics' Lien Law:

BE IT RESOLVED

That the Southern Conference of Builders Exchanges this day assembled at Pasadena, California, hereby endorse the principle of the proposed amendments to the Mechanics' Lien Law as drafted by Glen Behymer along the following lines, to-wit:

1. Giving concurrent jurisdiction in Mechanics' Lien action under \$2000.00, to the Superior and Municipal Courts and clearing up doubts as to necessary parties defendant where they are holders of mortgages or deeds of trust.

2. An obligatory requirement for the withholding of building funds after the service of the stop notice, unless a bond for the protection of the laborers and material men has been furnished in response thereto.

3. The provision that bonds exacted by money lenders for faithful completion should be required to insure to the laborers and material men as well.

4. The enactment of a statute permitting the financing of the property either before or after beginning construction, by the filing of a bond running to the laborers and material men in an amount equal to one-half of the face principal amount of any mortgage or deed of trust which is to be a building loan upon the property.

5. The enactment of legislation establishing, so far as possible, the principle that a building loan is a trust fund applicable to the completion of the building and the payment of laborers and material men involved therein, and all building loans to maintain priority shall be accompanied by a recorded bond insuring to laborers and material men for an amount equal to one-half of the face of said loan.

FURTHERMORE,

The conference endorses the principle of the act providing for the recording of a "Notice of Intention to Improve Real Property" suggested by

J. W. Morin, defining building loans as being credit extended to the owners of real property as conditional upon the erection of buildings thereon, and providing that all persons who propose to erect improvements upon property which is subject to encumbrances must make a verified statement of the condition of their title with reference to encumbrances, including a summary of the nature and extent of the encumbrances, identifying the holders thereof and set forth the fact as to the actual and true consideration of said encumbrances whether the same be money, exchanges of real estate, chattels, commissions, and what deductions from the building loan are proposed to be made, necessarily developing therefore the fact as to what actual moneys remain available for actual building purposes, said act furthermore requiring a statement of the amount which it is proposed to expend on said building projects.

Said Act furthermore providing for a Notice of Abandonment in case said project is not begun, thereby clearing the title from the effect of the preliminary notice. Attention is hereby called to the fact that the provisions of this act in no way affect the work of cities, counties, state or other political subdivisions, or corporations acting upon jurisdiction of the state railroad commission, or in case of projects involving less than \$500.00.

FURTHERMORE,

This Conference approves in principle the changes proposed in amendments to the Contractors' License Law of 1929 by J. W. Morin and urges that the department of Professional and Vocational Standards co-operate with Mr. Morin to bring his suggestions of details so far as possible into harmony with the general suggestions of the department on this subject.

Providing, however, that it was the sense of the meeting that the law should be so designed on the subject of connivance and collusion between contractors and others, that material dealers should be protected when dealing in good faith with contractors whom they believe to hold licenses in good standing.

that prompted him to take the initial step and move on with a renewed determination, to complete ownership. Give the average individual his money's worth and he will pay it without a whimper; if he doesn't get his money's worth he has a right to kick, and he will. The business of financing homes is no exception to the rule.

"It is in this connection that I have been much interested in the present efforts of the National Committee on Wood Utilization of the Department of Commerce in co-operation with the Ohio Association of Retail Lumber Dealers and the Service Bureau of the American Wood Preservers Association to foster the use of treated lumber in residential buildings. Whether wood under any conditions of quality or use will outlast the normal expectancy of the building may or may not be a moot question. The fact is that the accumulation of moisture at points of contact of framing work and masonry makes it necessary to replace wooden floors and foundation members long before the wood in other portions of the building shows signs of decay. These replacements are expensive."

Of equal or greater importance is the protection which the use of treated lumber provides against subterranean termites which, according to Mr. Wyman, "silently, but certainly have become a real problem to home owners over a large portion of the United States. Unprotected wood is in great danger of destruction wherever insects can reach it from the ground. Thousands of home owners in the United States today are headed for heavy repair bills because of termites. An investment of only a few dollars in chemically treated lumber would have precluded the absolute certainty of a much greater cost of replacements."

Again referring to the wood utilization committee's treated lumber program, Mr. Wyman said that time and effort "expended in educating the public to the many advantages of treated lumber cannot be valued in terms of mere profit from the sale of the material itself. It is an investment in the business of home building and home owning. Whatever increases and stabilizes that business cannot be measured in dollars and cents."

While the committee stresses the immunity of properly treated lumber to decay and insects, it also points out that there are a number of naturally durable woods with special properties which make them resistant without treatment. The supply of these woods, however, is inadequate to meet the demands of the building and construction industries, and so builders and home-financing institutions are turning to the preservative treatment of the less durable species of which there is an ample supply.

CHEMICALLY TREATED LUMBER RECOMMENDED FOR RESIDENCES

Declaring that every home owner has a right to expect full value for the money invested in the construction of a house, John M. Wyman of Cincinnati, Ohio, editor of the American Building Association News, in a recent address at the annual meeting of the Ohio Association of Retail Lumber Dealers at Cleveland, commended efforts of the National Committee on Wood Utilization of the Department of Commerce to further sound wood-using practices.

Mr. Wyman is author of the recently published "Building and Loan Construction Standards" which have been adopted by the United States Building and Loan League as minimum specifications upon which money will be advanced for the building of homes. The use of chemically treated lumber, resistant to decay and insect attack, is recommended in the new standards to prevent premature depreciation and

excessive repairs of certain parts of a building, such as foundations, sills and joists, where the lumber is exposed to dampness.

It is in this connection that Mr. Wyman referred to the program of the National Committee on Wood Utilization, which seeks to familiarize the home building public with the uses and economies of treated lumber. The committee is sponsoring the distribution of the material through retail lumber dealers, so that it may be obtained easily by the small consumer who wants only the few board feet, all that is usually required, to protect his home from the chief enemies of wood: Mr. Wyman said:

"Time is the laboratory in which all things receive the final test. The individual who, by actual performance of his house is made to realize that he has received full value for his investment will feel more keenly the urge

Employment in the Seattle building trades is at a low point, it is announced. All trades have been hard hit and no improvement is expected for at least six weeks.

Somewhat more activity is noted in smaller construction as the season progresses. More inquiries are being directed to architects from prospective builders than has been the case for many months, but there is certainly no evidence of any building boom. Home building is more active.

Indications point to increasing activity in smaller structures with few exceptionally large projects on the boards of the architects at this time.

ARCHITECT AS A BUILDING SPECIALIST

Paper presented by the Architectural Institute of British Columbia and read at the February luncheon meeting of the Victoria Chapter of the Institute.

"In these days of intense competition in the business world the man who is to succeed must concentrate every thought upon his own particular field of endeavor.

"It naturally follows that when the need arises for building a factory, office building or residence, the prospective owner finds himself lacking in the specialized knowledge of building methods so necessary to the attainment of successful results. He must seek someone fitted by training and experience to analyze the project, from the drawing of the plans to its satisfactory completion.

"An architect is the best qualified for the important job. Based on a careful analysis of building problems, the architect's plans and specifications will present practical methods of meeting every requirement of owner or occupant.

"The superintendence of an architect is not that of a mere overseer, but rather that of a trained director, who co-ordinates the various features of the work so as to insure satisfaction, both from an economic and an artistic standpoint.

"The ideal building would be built by the owner, if the owner had the training and experience requisite for the work. But most men have been too busy all their lives with their own enterprises to study the technique of building design and construction. Bewilderment would be the result of any attempt on the part of the owner to establish a 'construction department' of his own.

"It is in the construction department of an architect's office that the problem is analyzed and solved. The resulting plans after receiving the customer's approval, become the basis for the tenders of the several contractors.

"The work of the contractor is done with the guidance of the architect, whose training and specialized skill are at the owner's disposal. Employed and paid by the owner, the architect represents him in the hundred and one decisions involved in the processes of the building. He is bound by the ethics of his profession to accept no fees from any other source. He must, at the same time, exercise all fairness in his dealings with the contractor.

"Successful building operations, like successful army operations, call for the appointment of one man who shall have final authority for all practical decisions as to materials and methods. The scope of the architect covers every branch of the building industry. He has at his command full and complete knowledge of practical methods, suitable men and available materials.

"After the plans are approved, the architect co-operates with the owner and the various contractors. He directs the work at every stage, and assumes full responsibility for carrying through every detail of the specifications to the satisfaction of those who are to own or use the finished structure."

ORNAMENTAL METAL INDUSTRY GROWING

American architects are unanimous in the belief that there can be no substitute for art, according to William A. Boesche, President of the National Association of Ornamental Iron, Bronze and Wire Manufacturers.

"Despite the fact that many modern building materials are now produced synthetically, the demand for the genuine still leads the demand for the imitation," Mr. Boesche declared. "Even in these days of economy and substitution, art still triumphs over imitation in the long run.

"Caen stone" made of plaster, "marble flooring" made of composition, "wall panelling" that comes in paper bags ready to be mixed with water—these, some authorities tell us, are characteristic of the modern urge to get everything done as quickly and cheaply as possible. It is even predicted that the current architectural era will go down in history as the 'Age of Imitations.'

"This I cannot agree with, especially in view of the record of the ornamental metal industry last year. Approximately a quarter of a billion dollars was spent by builders and home owners last year for wrought iron and bronze—two materials which refuse to be imitated and which have maintained their individuality for centuries. This seems to indicate conclusively that true art and craftsmanship have not been displaced by cheaper substitutes. Architects and builders are turning back to basic and true materials to achieve the beauty and individuality which they cannot attain with substitutes.

"Proof of this is seen in most of the outstanding skyscrapers of 1930. Built in a slow year with the expectation that they would return a profit on the investment over a period of years, these buildings are heavily decked with doors, balconies, stoop rails, stairs, grilles, marquees and other fixtures of genuine metal.

"The fact that 1930 was a busy year for the skilled metal craftsman is ample proof that art still triumphs. We have yet to find a substitute for beauty."

ENGINEERS WANTED FOR STATE SERVICE

Applications are being received by the California State Civil Service Commission, 31 State Capital Building, Sacramento, for positions in the State Department of Public Works. Those desiring to take the examinations must file their application with the commission before February 28.

Examinations will be held in the immediate future for the following positions:

Under engineering aid, salary \$105-\$115.

Junior engineering field aid; entrance salary, \$120.

Senior engineering field aid; entrance salary, \$145.

Junior engineering office aid; entrance salary, \$120.

Senior engineering office aid; entrance salary, \$145.

Highway draftsman—computer; entrance salary, \$170.

Complete details are available from the commission offices in Sacramento or the San Francisco office, 115 State Building, in Civic Center.

U. C. ARCHITECT WINS ART HONOR

To Michael Baltekal-Goodman, Russian emigre and University of California lecturer and lecturer, architecture is work and art a hobby. Though he is a lecturer in the former in the university, and employed in the same field in the business world, he has received two signal recognitions from the art world within a week.

The first recognition came from the jury of award at the recent state-wide art exhibition in Santa Cruz. One of Goodman's sketches, a Berkeley hills scene entitled "Spring Grass," was awarded first place in the pastels division of the exhibit.

On the heels of the notification from Santa Cruz came another notice from the American Institute of Graphic Arts of New York that a wood engraving of a circus scene, entitled "Canvas Mountains," has been selected as one of the fifty best prints of 1930 by American artists both in this country and abroad.

The selection was made this year by Louis Mumford, internationally known critic, as a jury of one. The prints selected will be published in book form this spring. Goodman has given several exhibitions in the bay region, as well as exhibited work in galleries on the west coast and the east coast. He hopes to arrange another exhibit on the campus at Berkeley late this spring.

STRUCTURAL STEEL STANDARD APPROVED

The American Tentative Standard, Zinc Coatings on Structural Steel Shapes, Plates, and Beams and their Products (GSC-1930), has been approved by the American Standards Association.

The standard was submitted for ASA approval under the proprietary sponsorship provided by the American Society for Testing Materials as a revision of a previous A. S. T. M. standard. It includes designations of specific grades of structural steel, grades of galvanizing spelter bath, minimum amount of impurities allowed in the molten zinc bath, specifications for steel embrittlement, weight of zinc coating, and a test for uniformity of zinc coating.

The standard departs from the previous issue is no longer designating specific grades of structural steel but permitting instead the use of steel conforming to standard specifications. Definite limits were also provided for the permissible proportion of impurities in the galvanizing spelter bath. The limits are 1.60 per cent lead, 0.01 per cent iron, and 0.01 per cent aluminum. A minimum weight of 2.0 ounces of zinc coating per square foot of strip surface is set in the standard in the added provision that no individual specimen shall show less than 1.8 ounces per square foot.

The method recommended for determining the weight is that of weighing one or more specimens after pickling and drying and again after coating, or inspection is made after manufacture. However, the weight may be determined by stripping an entire piece in accordance with the A. S. T. M. standard method (A90) covering this subject. Because of the general use by consumers of the Preece test for determining the uniformity of the zinc coating that test is included in the standard, although it is pointed out that the test is inadequate for determining weight, thickness, or uniformity of the coating.

Copies of the coating may be ordered from the ASA office, 29 West 39th Street, New York City, or from the American Society for Testing Materials, 1315 Spruce Street, Philadelphia, Pa.

Building News Section

APARTMENTS

Construction Postponed Indefinitely.
APARTMENTS Cost, \$—
SAN FRANCISCO, Clay Street.
 Three-story and basement frame and
 stucco apts. (nine 3-room apts.)
 Owner—Withheld.
 Architect—Masten and Hurd, 210 Post
 Street.

Preparing Plans.
APARTMENTS Cost, \$575,000
LOS ANGELES, Cal. Cherokee and
 Selma Avenues.
 Six-story Class A reinforced concrete
 apartments (72 units)
 Owner—Chas. H. Crawford.
 Architect—Scott Quintin, Medical
 Bldg., Alhambra.

Wrecking Started.
APARTMENTS Cost, \$175,000
STOCKTON, San Joaquin Co., Calif.
 945 N El Dorado Street.
 Rebuild apartment (destroyed by fire)
 6-story and basement brick struc-
 ture.
 Owner—Senator Frank S. Boggs, 925
 N El Dorado St., Stockton.
 Architect—Joseph Losekann, 1213 W
 Harding St., Stockton.
 Wrecking—Gannon & McCarthy, 1390
 Monroe, San Jose.
 Working drawings will be started
 in about two weeks.

Preparing Plans.
STORE Cost, \$60,000
SAN FRANCISCO, Acton and Mis-
 sion Streets.
 Two-story and basement reinforced
 concrete store and apartment
 building.
 Owner—S. Martin, San Francisco.
 Architect—W. H. Weeks, 111 Sutter
 St., San Francisco.

Completing Plans.
APARTMENTS Cost, \$85,000
SAN FRANCISCO, N Pacific Avenue
 75 E Gough St.
 Six-story and basement class C con-
 crete and steel frame apts. (24 3-
 room apts.)
 Owner and Builder—T. E. Strand, 668
 Funston Avenue.
 Architect—Irvine & Ehbets, Call Bldg.
 Sub-bids will be taken in about 2
 weeks.

Completing Plans.
APARTMENTS Cost, \$85,000
SAN FRANCISCO, N Pacific Avenue
 120 E Gough St.
 Six-story and basement class C con-
 crete and steel frame apts. (24 3-
 room apts.)
 Owner and Builder—T. E. Strand, 668
 Funston Avenue.
 Architect—Irvine & Ehbets, Call Bldg.
 Sub-bids will be taken in about 2
 weeks.

Construction Postponed Indefinitely.
APARTMENTS Cost approx. \$300,000
ALAMEDA, Alameda Co., Calif. NW
 Webster and Taylor Sts.
 Seven-story class B reinforced con-
 crete and steel apartments (60 2-
 3- and 4-room apts.)
 Owner—J. S. Bercovic, Actico Bldg.,
 Oakland.
 Plans by Thomas Keenan, 1440 Broad-
 way, Oakland.
 Contractor—G. P. W. Jensen, 220 Mar-
 ket St., San Francisco.

Plans Being Figured.
APARTMENTS Cost approx. \$20,000
SANTA ROSA, Sonoma Co., Cal. 7th
 and A Streets.
 Two-story frame and stucco apart-
 ments (6 apts.)
 Owner—P. Gambini and S. Testorelli,
 Santa Rosa.
 Architect—Wm Herbert, Rosenberg
 Bldg., Santa Rosa.

Following contractors have secured
 plans.
 E. Ahlstrom, 411 Short St., Santa
 Rosa.
 Louis Halvorsen, 128 Dutton Ave.,
 Santa Rosa.
 W. J. Lindsay, Rincon Valley Rd.,
 Santa Rosa.

BONDS

ARROYO GRANDE, San Luis
 Obispo Co., Cal.—Arroyo Grande
 School District will call a bond elec-
 tion soon to vote on the question of
 issuing bonds for the erection of a
 new elementary school. Approx-
 imately \$45,000 will be needed for
 the new building.

FRESNO, Fresno Co., Calif.—At a
 recent joint meeting of the Fresno
 Real Estate Board, the Chamber of
 Commerce and members of the City
 Council, discussion was given to a \$2-
 000,000 bond issue to finance purchase
 of a site and the erection of a mun-
 icipal auditorium. The question of a
 new city hall and jail building was
 also discussed which would cost an
 additional \$500,000. It is possible that
 the bond proposals will be submitted
 to the voters at the April election.

LOS ANGELES, Cal.—Election will
 be held March 5 to vote on a \$1,000-
 000 bond issue for the improvement
 of parks and \$1,000,000 for improve-
 ment of playgrounds. Work will be
 planned to assist unemployed.

LOS BANOS, Merced Co., Cal.—
 West Side Union High School District
 has called a bond election for March
 10 at which time it is proposed to
 vote bonds in the sum of \$175,000 for
 the erection of a new high school
 building. W. D. Coates Jr., Fresno,
 will be the architect.

SKILSAW Portable Electric Hand
 Saws (4 models).

SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attach-
 ments.

SYNTRON Portable Electric Ham-
 mers (4 models, motor-
 less).

MALL Flexible Shaft Machines (50
 models).

Electric Drills, Grinders, Buffers,
 Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric
 Tools.

1248 Mission St. Underhill
 San Francisco 7862
 SALES · SERVICE · RENTALS

LAKEPORT, Lake Co., Cal.—Count-
 y supervisors sell \$5,000 bond issue
 of Sulphur Bank School District for
 premium of \$300, proceeds of sale to
 finance erection of additions to the
 present school.

ST. HELENA, Napa Co., Cal.—St.
 Helena School District Trustees con-
 template a bond issue for \$112,000 to
 finance erection of a new grammar
 school to replace the present stone
 building which has been declared un-
 safe. The State Division of School-
 house Planning estimates the cost of
 reconstructing the present structure
 at \$16,000.

CORONA, Los Angeles Co., Calif.—
 Special election will be held in March,
 at which time it is proposed to vote
 bonds in sum of \$75,000 for construc-
 tion of school additions. Program calls
 for a 6-room addition to the high
 school and a 4-room addition to the
 Jefferson school. G. S. Wilson, River-
 side, will probably be the architect.

CHURCHES

GRASS VALLEY, Nevada Co., Cal.
 —E. Hatton, Grass Valley, awarded
 contract by Christian Science Society
 to erect edifice in south side of West
 Main St., near School St. Will house
 church auditorium and public reading
 rooms.

Completing Plans—contract Awarded.
CHURCH Cost, \$40,000
SAN PABLO, Contra Costa Co., Cal.
 Church and Market Streets.
 Church (Mission style).
 Owner—St. Pauls Catholic Church
 Rev. Eyste Tozzi, San Pablo.
 Architect—John Foley 770 Fifth Ave.,
 San Francisco.
 Contractor—S. Rasori, Call Building,
 San Francisco.

Construction will start about March
 1st. The site of the new church is
 near the present St. Paula church and
 upon its completion the old church
 will be placed in repair and used for
 a hall.

Plans Being Prepared.
CHURCH Cost, \$4000
HAYWARD, Alameda Co., Cal. Grace
 and Soto Sts.
 Frame church.
 Owner—Grace Lutheran Church, Rev.
 Walter Luebkehan, pastor.
 Plans by Walter Hagedorn, 935 South
 Western Ave., Los Angeles.

VISALIA, Tulare Co., Cal.—First
 Presbyterian Church, C. R. Bolier,
 chairman of building committee, has
 started work on the erection of a
 Sunday school building to cost \$10-
 000. It will contain eleven classrooms
 and two auditoriums.

Preliminary Plans Being Prepared.
CHURCH Cost, \$—
CHICO, Butte Co., Cal.
 Church building.

Owner—Edwell Memorial Church.
 Rev. R. C. LaPorte, pastor).

Architect—Chas. F. Dean, California
 State Life Bldg., Sacramento.
 The structure will be erected on the
 site of the old Presbyterian Church
 which was recently destroyed by fire.
 A portion of the old church building
 will probably be used in the erection
 of the new structure.

FACTORIES AND WARE-HOUSES

Plans Being Prepared.

SHOP Cost, \$10,000
SANTA ROSA, Sonoma Co., Cal. 3rd and A Streets.

One-story reinforced concrete sheet metal and shop radiator.
Owner—Ed Holtz, 503 3rd St., Santa Rosa.

Private plans.

Plans Being Completed.

SAN JOSE, Santa Clara Co., Cal.

FLANT Cost, \$100,000
Three- or four-story concrete or brick manufacturing and refining plant.
Owner—Liquid Sugar Corp., 637 Battery St., San Francisco.

Plans by Eng. Dept. of Owner.
Bids will be taken in about thirty days.

To Be Done By Day's Work.

DECK Cost, \$11,000
SAN FRANCISCO. Carroll and Newhall Streets.

Steel trussed and steel roofed deck to cover bar yard.

Owner—Truscon Steel Co., Call Bldg. Plans by Owner.

OAKLAND, Cal.—Until February

25, 8 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., to furnish and install sprinkler system complete in buildings known as "Carpenter Shop" and "Meter Shop" at the district corporation yard, 22nd and Adeline Streets. Specifications obtainable from above.

Sub-Bids Being Taken.

BOILER HOUSE Cost, \$12,000

AVON, Contra Costa Co., Cal
One-story reinforced concrete boiler house (steel trusses).

Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.

Plans by Eng. Dept. of Owner.
Contractor—Villadsen Bros., 417 Market St., San Francisco.

Low Bidders.

PACKING PLANT Cost, \$52,598

SANTA PAULA, Ventura Co., Calif.
Reinforced concrete and steel packing plant.

Owner—Mupu Citrus Assn.
Architect—Roy C. Wilson, 112 S Mill St., Santa Paula.

Contractor—Richards-Neustadt Const. Co., W. M. Garland Bldg., Los Angeles.

Plumbing—John Uffen; \$2,777.

Painting—Alhambra Wall Paper and Paint Co., \$5,750.

Bids will be Taken in Thirty Days.

REMODELING Cost, \$—

STOCKTON, San Joaquin Co., Calif.
Remodel six-story brick building.

Owner—Liquid Sugar Corp., Ltd. (J. M. Melvin), Financial Center Bldg., San Francisco.

Plans by Eng. Dept. of Owner.

Contracts Awarded.

SHOP BLDG. Cont. Price, \$16,597

OAKLAND, Alameda Co., Cal. Fifty-second Ave. and E-Tenth St.

Two-story reinforced concrete maintenance shop building

Owner—City of Oakland School Dist. Plans by Building and Grounds Department, Oakland.

Contractor—Strehlow & LeVoue, Central and Webster Sts., Alameda.

Structural Steel—Judson-Pacific Co., 609 Mission St., San Francisco, at \$9955.

Plans Being Prepared.

ALTERATIONS Cost, \$—

SAN FRANCISCO. Mills Field Municipal Airport.

Alterations to Hangar No. 1.

Owner—City and County of San Francisco (S. J. Hester, secretary, Board of Public Works).

Plans by Bureau of Engineering, 3rd floor, City Hall.

Structure will be remodeled to contain a dope shop, ticket office, pilots' restroom and apparatuses.

Plans Being Prepared.

SHED Cost, \$—

TURLOCK, Stanislaus Co., Calif.

One-story frame freight shed.
Owner—Tidewater Southern R. R. Co., Mills Bldg., San Francisco.

Plans by Eng. Dept. of Owner (Mr. Smitton), Mills Bldg., San Francisco.

GARAGES AND SERVICE STATIONS

Plans Being Prepared.

SERVICE STATION Cost, \$25,000

SAN FRANCISCO. Van Ness Ave. and Howard St.

One-story and mezzanine floor brick and steel super service station.

Owner—Withheld.

Architect—S. Helman, 605 Market St.

Bids will be taken for a general contract in two weeks.

Contract Awarded.

SERVICE STATION Cost, \$10,000

NEWMAN, Stanislaus Co., Cal. Giovanni Corner.

Spanish type super-service auto station.

Owner—Withheld.

Contractor—Roy Kruger, Gustine.

Preparing Sketches.

STATION Cost, \$—

SAN FRANCISCO. Nineteenth Ave. and Lincoln Way.

One-story brick super service station
Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.

Architect—Masten & Hurd, Shreve Bldg., San Francisco.

To Be Done By Day's Work By Owner

HANGAR Cost, \$—

BENBOW, Humboldt Co., Cal

Two-story reinforced concrete garage and galvanized and corrugated iron hangar (steel trusses).

Owner—Benbow Hotel Company.

Architect—Farr & Ward, 68 Post St., San Francisco.

Contract Awarded.

AUTO SALES BLDG.

Cont. Price, \$52,915

SAN FRANCISCO. Mission Street near Ney Street.

One and two-story steel frame and reinforced concrete auto sales and service building

Owner—W. B. Street, 251 Magellan Ave., San Francisco.

Architect—Irvine & Ebbets, Call Bldg., San Francisco.

Contractor—William Spivock, Hobart Bldg., San Francisco.

Sub-bids are in and will be awarded shortly.

GOVERNMENT WORK AND SUPPLIES

SAN FRANCISCO.—Until March 2,

10 A. M., under Circular No. 928-21-

212, bids will be received by Quar-

termaster Supply Officer, General Depot,

Fort Mason, to furnish and deliver

miscellaneous hardware, paint brush-

es, water hose, hose nozzles, welding

rods, door mats, mowing machine

parts, iron or steel bars, miscellaneous

plumbing supplies, electrical supplies,

etc.

Bids Opened.

HANGAR Cost, \$—

PEARL HARBOR, T. H. Naval Op-

erating Air Station.

Seaplane Hangar (Spec. No. 6215).

Owner—U. S. Government.

Plans by Bureau of Yards and Docks,

Navy Dept., Washington, D.C.

The work includes earthwork, concrete

block piling and foundations, concrete

brick partitions, steel and iron work,

steel windows, roofing, siding and

sheet metal work, masonry covered

stairs, timber work, glazing and paint-

ing.

Three Low Bidders

Ames Will, Ltd., Honolulu...\$203,430

E. E. Black, Ltd., Honolulu... 211,132

Marks Const. Co., Honolulu... 215,000

A complete list of the bids received

on this project will be published soon.

Plans Being Figured—Bids Close Mar.

13, 10 A. M.

DWELLINGS Cost, \$—

BOULDER CITY, Nevada. 25 miles

SE of Las Vegas.

Six 4-room and six 3-room dwellings.

Owner—U. S. Government.

Plans by U. S. Bureau of Reclamation,

Denver.

Alternate bids will be received for

several different types of construction.

The bids are being received by the

U. S. Bureau of Reclamation at

Las Vegas from whom plans may be

obtained.

SAN FRANCISCO.—Until March 2,

10 A. M., under Circular No. 928-21-

212, bids will be received by Quar-

termaster Supply Officer, General Depot,

Fort Mason, to furnish and deliver

1125 malleable iron, pipe fittings,

galvanized, threaded, 150 lbs. S. W. P.

750 pipe fittings, soil, cast iron,

standard equal and similar Crane Co.

Cat. No. 140.

500 lbs. brass or bronze body valves,

with screwed ends for 200 lbs. steam

working pressure.

SAN FRANCISCO.—Until March 2,

10 A. M., under Circular No. 928-21-

212, bids will be received by Quar-

termaster Supply Officer, General Depot,

Fort Mason, to furnish and deliver

9,000 lbs. galv. roofing nails of which

5,000 lbs. will be 2½-in. No. 6, flat

head and 4,000 lbs. 2½-in. No. 8,

spring head.

265 lbs. tinners' rivets, flat head, of

which 120 lbs. will be 2-lb. size, 25

lbs. 2½-lb. size and 120 lbs. 3-lb. size.

3,290 sheets galvanized sheet iron,

Nos. 16, 20 and 24 gauge.

Specifications obtainable from the

above.

SAN FRANCISCO.—Until March 2,

10 A. M., under Circular No. 928-21-

212, bids will be received by Quar-

termaster Supply Officer, General Depot,

Fort Mason, to furnish and deliver

9 heavily galvanized congealing tanks

outside dimensions 4-in. wide, 25-in.

high; equal and similar to tanks man-

ufactured by Brunswick-Koreshell

Co., Chicago, Ill., as follows:

6 3-ft. long outside.

2 6-ft. long outside.

1 8-ft. long outside.

Further information obtainable from

above.

PEARL HARBOR, T. H.—Bids will be

asked shortly by the Bureau of

Yards and Docks, Navy Department,

Washington, D. C., under Specification

No. 6299, for dredging at the

Naval Operating Base, Pearl Harbor.

The work includes dredging and dis-

posal of approximately 2,500,000 cubic

yards of material. Applications for

plans may be filed with the Command-

ant at the Mare Island Navy Yard

and must be accompanied by a check

or postal money order for \$20, pay-

able to the Chief of the Bureau of

Yards and Docks. Deposit is return-

able.

DUTCH HARBOR, Alaska.—Until March 15, bids will be received by Public Works Officer, Navy Yard, Puget Sound, to erect barracks building, under Spec. No. 6327. Estimated cost \$35,000. Plans obtainable from above.

SAN DIEGO, Cal.—Bids will be asked shortly by the Bureau of Yards and Docks, Navy Department, under Spec. No. 6352, for floating drydock at San Diego; estimated cost \$425,000.

SAN DIEGO, Cal.—Until 11 A. M., March 18, bids will be received by the public works department of the Eleventh Naval District, San Diego, for the extension of expeditionary storehouse at the Naval Operating Base (Marine Barracks), San Diego. Specification No. 6407. The work includes concrete piling; concrete construction, paving, hollow tile, built-up roofing and sheet metal work, metal doors and windows and steel rolling doors, stucco and plaster work, woodwork and glazing, hardware, plumbing, heating, electrical and sprinkler system. Deposit of \$20 required for plans.

MARCH FIELD, Riverside Co., Cal.—Until 11 A. M., March 10, bids will be received by Col. W. C. Gardenhire, constructing quartermaster, March Field, for the construction of two sets of field officers quarters and eight sets of company officers quarters at March Field. Spec. No. W-6034-18. Plans may be obtained from the office of the constructing quartermaster. The buildings will be of hollow concrete wall construction with wood interiors and roof framing and tile and composition roofing.

See call for bids under official proposal section in this issue.

SAN DIEGO, Cal.—Representative Phil D. Swing advises the government will build a new Post Office in the uptown district of San Diego at an estimated cost of \$400,000.

PEARL HARBOR, T. H.—Bids will be asked shortly by the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6371, to construct submarine escape training tank for Pearl Harbor. Est. cost \$80,000.

PEARL HARBOR, T. H.—Bids will be asked shortly by the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specifications No. 6376, for engine and aircraft overhaul shop for Pearl Harbor; est. cost, \$220,000.

SAN FRANCISCO, Cal.—Calif Pacific Pavement Co., 1755 San Bruno Ave., San Francisco, at \$7,298, submitted lowest bid to Constructing Quartermaster, Ft. Mason, for resurfacing roads and constructing cement sidewalks and curbs at Letterman General Hospital.

Following is a complete list of the bids received:

Pacific Pavement Co.	\$ 7,298
Fay Improvement Co.	8,000
A. G. Ralsch	9,300
J. P. Lawlor	10,160

Bids held under advisement. (4588) 1st rep. Jan. 31, 1931.

MARE ISLAND, Cal.—Bids will be asked shortly by the Bureau of Yards and Docks, Navy Department, under Specification No. 6431, for battery and storage and to overhaul building at the Mare Island Navy Yard. Estimated cost, \$240,000.

Completing Plans.
GARAGE Cost, \$—
SAN FRANCISCO. Letterman Hospital.
 Convert concrete stable into garage (steel beams and steel gutters).
 Owner—U. S. Government.
 Architect — Constructing Quartermaster, Fort Mason
 Bids will be advertised within one week.

Contract Awarded.
QUARTERS Cost, \$766,916
FORT SHAFTER, T. H. Wheeler Field, Scofield Barracks.
 Quarters for married and bachelor officers, including all grading and utilities.
 Owner—U. S. Government.
 Plans by Department Quartermaster, Construction Division, Ft. Shafter, Honolulu, T. H.
 Contractor—Ralph E. Woolley, Honolulu.

MARE ISLAND, Cal.—K. E. Parker Co., 135 South Park, San Francisco, awarded the following sub-contracts in connection with the construction of barracks at Mare Island Navy Yard:
Plumbing—Scott Co., 243 Minna St., San Francisco.
Marble—Ray Cook Marble Co., foot of Powell St., Oakland.
Refrigeration—York Ice Machine Co., 234 9th St., San Francisco.
Excavation—D. C. McDonald.
Electric Work—Spencer Electric Co., 354 Hobart St., Oakland.
Piling—Raymond Concrete Piling Co., Hunter-Dunn Bldg., San Francisco.
Reinforcing Steel and Steel Pans—Soule Steel Co., Rialto Bldg., San Francisco.
Lathing and Plastering—Chris. Berg, 550 Market St., San Francisco.

ANACAPA Island, Cal.—Until Mar. 12, 2 P. M., bids will be received by Superintendent of Lighthouses, 425 Customhouse, San Francisco, for the construction of four frame stucco dwellings, five small frame stucco shop buildings, one frame tank house and a reinforced concrete light tower, power house and oil house at Anacapa Island, Calif. Location is eleven miles off the mainland and thirty miles southeasterly from Santa Barbara. Plans obtainable from above office.

WASHINGTON, D. C.—President Hoover on Feb. 6 approved the urgent deficiency bill carrying appropriations of \$109,304,822.13. The new law carries for Federal-aid highways \$34,000,000 and for miscellaneous construction under various departments, \$11,562,347, or a total to be immediately available for construction work of \$45,562,347. Among items of construction of interest to contractors on the Pacific Coast are:
 Navy Yard, Mare Island: Improvement of fire protection, \$75,000; floating derrick, \$100,000.
 Navy Yard, Puget Sound: Extension of fuel-oil system, \$75,000; fireproof vaults, \$25,000; improvement of power plant, \$75,000; paving, to continue, \$50,000; improvement of dry dock No. 1, \$400,000; improvement of tracks, \$50,000.
 Naval Station, San Diego: Quay wall and dredging, \$210,000; improvement of crane tracks, \$60,000; float-

ing derrick, \$100,000.
 Naval Torpedo Station, Keyport, Wash.: Improvement of fire protection, \$15,000.
 Naval Training Station, San Diego: Extension of mess hall, \$115,000.
 Marine Barracks, San Diego: Extension of storehouse, \$150,000.
 Naval Air Station, San Diego: Extension of barracks buildings, \$95,000; improvement of gasoline storage, \$50,000; resurfacing seaplane runway, \$25,000.
 Naval Hospital, Puget Sound, Wash. Extension of main building, \$150,000; extension of administration building, \$50,000.

SAN FRANCISCO.—Bids will be asked shortly by the Office of the District Engineer, 402 Post Office Bldg., for installing a glazed partition complete, with hardware and grilles.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver as noted in the following schedules, further information being available from the Navy Purchasing Office, 100 Harrison St., San Francisco:
Bids Open March 3

Seattle, 1 motor driven hand-saw machine; sch. 5116.
 Mare Island, 4000 lbs. zinc dust; sch. 5097.
 Mare Island, brass barrel bolts, curtain rod brackets, cupboard catches, screen-door catches, wire rope clips, screw eyes, chest handles, hinge hasps, door hooks, screw knobs, drawer pulls, stencils and key tags; sch. 5098.
 Mare Island, 1 motor driven hydraulic test pump; sch. 5129.
 Seattle, 1 service test bench; sch. 5125.

San Diego, 1 motor driven milling machine; sch. 5131.
 San Diego, 1 motor driven shaper machine; sch. 5123.
 Seattle, 1 motor driven milling machine; sch. 5120.

San Diego, 1 motor driven hack saw; sch. 5119.
 Hawthorne, Nev., 1 portable stacker, telescopic, hand operated; sch. 5118.

Seattle, one motor driven machine cutter, sheet metal; sch. 5113.
 Mare Island, 45 fire extinguishers; sch. 5099.
 Mare Island, insulated cable; sch. 5127.

Western yards, thread gages; sch. 5141.

Bids Open March 10
 Mare Island, rubber pump valves; sch. 5078.
 Puget Sound, 250 tons coke; sch. 5079.

Western yards, 7500 dry batteries; Western yards, 36,000 flashlight batteries; sch. 5072.
 Western yards, rubber packing and gasket; sch. 5080.

Mare Island, 8000 gals. coal tar naphtha; sch. 5145.

Bids Open March 24
 Western yards, alternating current operated radio receivers; sch. 5138.

SAN FRANCISCO.—Until March 3, under Circular No. 20, bids will be received by Medical Section, Army Base San Francisco General Depot, Fort Mason, to furnish four electric refrigerators. Spec. obtainable from above.

PHOENIX, Ariz.—Until March 4, 2 P. M., bids will be received by U. S. Indian Field Service, 4100 Rhoads Circle, Phoenix, to furnish and deliver (a) 100 bbls. bidders' shipping point; (b) f.o.b. Phoenix. Ariz., 1600 bags of Portland cement in paper bags.

PUGET SOUND, Wash.—Bids will be asked shortly by Public Works Officer, Puget Sound Navy Yard, for construction of a concrete stack under Specification No. 440.

POSITION WANTED

STENOGRAPHER Bookkeeper, desires position with Architect or Contractor. Experienced in Building Construction, General Contracting and Architectural Work. Phone Fillmore 7211—Miss Madden

PEARL HARBOR, T. H.—Bids will be asked shortly by the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6322 to construct runway bulkhead and paving at Pearl Harbor. Est. cost \$160,000.

HAWTHORNE, Nev.—Until March 3, 10 A. M., bids will be received by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., for furnishing portable stacker for the Naval Ammunition Depot at Hawthorne, Nev. Specifications obtainable from the above office or from the Navy Purchasing Office, 100 Harrison

SACRAMENTO, Cal.—Until Feb. 24, 3 P. M., under Order No. 3007-1775, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver 20 kegs of wire nails, 80d, 100 lbs. to keg

SACRAMENTO, Cal.—Until Feb. 24, 3 P. M., under Order No. 3004-1776, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County, 325 sacks of Portland cement, approximately 94 lbs. to sack, (non-returnable paper sacks).

HALLS AND SOCIETY BUILDINGS

Prospective Bidders.
MEMORIAL BLDG. Cost, \$65,000
HAYWARD, Alameda Co., Cal. (Kolze Property) Main St.

One-story reinforced concrete Veterans' Memorial Building (Spanish type).

Owner—County of Alameda.
Architect—H. H. Meyers, Kohl Bldg., San Francisco.

Following is a complete list of contractors who have secured plans;

C. A. Bruce & Co., Pleasanton.

W. C. Keating, 4209 Mountain Blvd., Oakland.

Sullivan & Sullivan, 2653 Best Ave., Oakland.

E. T. Leiler & Son, 311 37th St., Oakland.

The Minton Co., Mountain View.

F. C. Stolte, 3349 Laguna St., Oakland.

Wm. Spivock, Hobart Bldg., San Francisco

George Maurer, 50 York Drive, Oakland.

Niles W. Place, 310 Fairmount Ave., Oakland.

R. C. Strehlow, 600 Central Ave., Oakland.

N. H. Sjoberg & Sons, Call Bldg., San Francisco.

F. Anderson, 1093 Longridge Rd., Oakland.

E. T. Lesure, 87 Ross Circle, Oakland.

John E. Branagh, 184 Perry St., Oakland.

Bids are to be opened March 3 at 10:30 A. M.

Sub-Bids Wanted.
MEMORIAL BLDG. \$25,000 available
CORNING, Tehama Co., Cal. Salano St. and Houghton Ave.

One-story brick Memorial Building.

Owner—County of Tehama.

Architect—Starks & Flanders, Forum Bldg., Sacramento.

F. H. Neilson, Oakland, Calif., general contractor, desires sub-bids on brick work, plaster, plumbing, tile roof and electric work in connection with this project for which general bids will be opened March 2, 10 A. M.

HOSPITALS

Preparing Preliminary Plans.
ADDITION Cost, \$60,000
IONE, Amador Co., Cal
Additional units at Preston State School of Industry.
Owner—State of California.
Architect—R. G. De Lappe, 1710 Franklin St., Oakland.
(4605) 1st report Feb. 3, 1931. 9

February 17, 1931
Contracts Awarded.
WARD Cost, \$—
TALMAGE, Mendocino Co., Cal. State Hospital Grounds.
Ward No. 7, consisting of six one-story dormitories and connecting arcade; reinforced concrete construction (total floor area 10,000 sq. ft. with arcade space of 4,600 sq. ft.)
Owner—State of California.

Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.

General Work
A. Nelson, 242 Ocean Ave., San Francisco, \$41,435

Plumbing and Heating
Ukiah Plumbing & Heating Co., Ukiah, \$7,171

Electrical Work
Decker Electric Const. Co., 538 Bryant St., San Francisco, \$826

LOS ANGELES, Cal.—National Corncor Works, 1223 Channing St., submitted low bid of \$166,732 to the Los Angeles County Supervisors Feb. 9 for sheet metal equipment for the Acute Unit of the Los Angeles General Hospital. The bids follow:
National Corncor Works, Unit No. 3, \$148,802; Unit No. 5, \$17,929; total, \$166,732.

Barnmann Hotel Supply Co., Unit No. 3, \$180,821.95; Unit No. 5, \$19,274.40; total, \$200,106.35.

Preliminary Plans Being Prepared.

ADDITIONS Cost, \$242,900
BERKELEY, Alameda Co., Calif.
Additional units at State School for Deaf (dormitory and kitchen).

Owner—State of California.
Architect—Charles Roeth, 1404 Franklin St., Oakland.

Commissioned to Prepare Plans.
BUILDING Cost, \$90,000
TALMAGE, Mendocino Co., Calif. State Hospital.

Ward building.

Owner—State of California.

Architect—Martin Sheldon, Monadnock Bldg., San Francisco.

Bids Opened.
HOSPITAL Cost, \$250,000
(1st unit, \$65,000)

COLUSA, Colusa Co., Calif. County Hospital Grounds.

One- and two-story reinforced concrete hospital (1-story wing and 2-story administration building).

Owner—County of Colusa.
Architect—Otto Deichmann, 110 Sutter St., San Francisco.

Only the first unit, having a 24-bed capacity, will be undertaken at this time. The structure, when completed, will have a capacity of 100 beds.
Azevedo & Sarmiento, 920 O St., Sacramento, \$60,400
F. C. Keating, Sacramento, 61,500
Fred Betz, Sacramento, 62,800
Lindgren & Swinerton, Sacto., 63,000
W. J. Scholz, Chico, 63,250
R. W. Littlefield, Oakland, 64,929
David Paganini, S. F., 66,212
Ralph McLeran, S. F., 66,900
Campbell Const. Co., Sacto., 67,436
J. P. Brennan, Redding, 68,000

Three lowest bids held under advisement. Contract will probably be awarded to lowest bidder.

Sub-Bids Being Taken.
ADDITION Cost, \$30,000
SAN FRANCISCO. Twenty-seventh and Valencia Streets.
Two-story steel frame cafeteria addition.
Owner—St. Luke's Hospital, Premises Architect—George Kelham, 315 Montgomery St., San Francisco.
Contractor—Chas. Stockholm & Sons, Russ Bldg., San Francisco.

Bids Opened.
HOSPITAL Cost, \$—
SPADRA, Los Angeles Co., Cal. State Hospital Grounds.
Hospital Administration Building and Girls' Industrial Building.
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.

General Contract
L. Geisler, 6212 Middleton, Huntington Park, \$76,574
Blue Ribbon Builders, 77,495
Wm. Rohrbacher, 78,870
Wilson Beaver Co., 80,700
Andy Sordal, 82,948
Anton Johnson, 84,980
Campbell Co., 85,690
H. Mayson, 86,345
E. DeKamp-Hudson-Sickles Co., 87,445
Wurstel Const. Co., 88,500
Robert E. McKee, 91,350
Wurstel Const. Co., 92,287
H. M. Barnch Corp., 93,547
Cresmer Mfg. Co., 99,600

Electric Work
Baty Elec. Co., Long Beach, \$4,100
Chandler Electric Co., 4,442
H. H. Walker, 4,540
Moore Electric Co., 4,650
R. R. Jones Electric Co., 4,690
Walter H. Smith, 5,200
Geo. L. Black, 5,227
Coast Electric Co., 5,345
Arlbright Electric Co., 5,513
Foulkes Electric Co., 5,930

Plumbing, Heating & Ventilating
Cooney & Winterbottom, Los Angeles, \$15,495
S. B. Jones, 15,834
American Engineering Co., 16,917
F. D. Reed Plumbing Co., 17,500
F. C. Schilling, 18,255
W. H. Robinson, 18,407
Johnson & Reeves, 18,570
Hickman Bros., 18,875
C. Havert, Co., 18,885
Pacific Pipe & Supply Co., 18,961
Foss Htg. & Sheet Metal Co., 19,397
Walter H. Smith, 19,500
Lohman Bros., 19,832
Munder and Munder, 19,970
W. P. McArthur, 20,166
Hones Htg. & Vent. Co., 20,275

Mechanical Complete
Walter H. Smith, Long Beach, \$34,500
The hospital building is two-story reinforced concrete walls and floors, the partitions and the roof on wood construction. Total floor area is approximately 18,000 sq. ft. The Administration Building is one-story reinforced concrete walls and floor, tile partitions and the roof on wood construction. Total floor area is approx. 5300 sq. ft. The Girls' Industrial Building is a one-story addition with reinforced concrete walls, wood floor, partitions and roof construction and tile roof. Total floor area is approx. 2200 sq. ft. Bids held under advisement.

Lumber Contract Awarded.
KITCHEN, ETC. Cost, \$172,710
BERKELEY, Alameda Co., Cal.

One-story reinforced concrete kitchen and commissary building and two-story reinf. concrete boys' and girls' dormitory.

Owner—State of California.
Architect—George B. McDougall, state architect, Public Works Building, Sacramento.

Contractor—Blonson Bros., 475 6th St., San Francisco.
Kitchen and dormitory building will

have tile partitions, steel and wood roof construction and tile roof; total floor area 14,000 sq. ft.

Boys' and girls' dormitory will have tile partitions, wood roof construction and tile roof; total floor area 42,700 sq. ft.

Lumber—Hogan Lumber Co., 2nd and Alice Sts., Oakland.

Other awards reported Feb. 6, 1931.

Bids Opened.

HOSPITAL Cost, \$—
NORWALK, Los Angeles Co., Calif. State Hospital Grounds.

Two-story reinforced concrete Night Attendants' Quarters and 2-story reinforced concrete Day Attendants' Quarters and 1-story frame and stucco residence.
Owner—State of California.

Architect—State Department of Public Works, Division of Architecture, Geo. E. McDougall, State Architect, Public Works Bldg., Sacramento.

General Contract

(a) add for completing one quarters building before starting second building.

(b) Add for additional room in cottage.

Carl Haverland, \$52,465; (a) \$600; (b) \$796.

H. G. Foster, \$54,564; (a) \$.....; (b) \$600.

Wm. Rohrbacher, \$56,265; (a) \$250; (b) \$550.

H. Mason, \$57,928; (a) \$500; (b) \$675

A. G. Schmid, \$58,900; (a) \$.....; (b) \$725.

L. A. Geisler, \$59,763; (a); (b) \$934.

Robert McKee, \$60,500; (a) \$1,000; (b) \$1,000.

Cresmer Mfg. Co., \$63,000; (a) \$1,500; (b) \$500.

C. W. Pettifer Co., \$63,000; (a) \$1,500; (b) \$550.

Campbell Const. Co., \$64,000; (a) \$1,000; (b) \$800.

Byers and Dunn, \$67,418; (a) \$500; (b) \$842.

Willard Lutz, \$67,800; (a) \$2,000; (b) \$700.

A. B. Perkinson, Inc., \$71,449; (a) \$.....; (b) \$694.

Electric Work

Moore Electric Co., Los Angeles, \$2,496; (a) \$100; (b) \$50.

Jones Electric Co., \$2,500; (a) \$.....; (b) \$50.

Coast Electric Co., \$2,856; (a) \$100; (b) \$60.

Fonkes Electric Co., \$2,875; (a) \$....; (b) \$24.

Walter H. Smith, \$2,890; (a) \$30; (b) \$30.

George L. Black, \$3,064; (a) \$50; (b) \$30.

G. L. Patterson, Los Angeles, \$3,133; (a) \$.....; (b) \$25.

Bate Electric Co., \$3,435; (a) \$100; (b) \$55.

Albright Electric Co., \$3,442; (a) \$....; (b) \$34.

Plumbing and Heating

Cooney & Winterbottom, Los Angeles, \$1,894; (b) \$250.

S. B. Jones, \$11,624; (b) \$265.

Thos. Havery Co., \$12,334; (b) \$289.

Hickman Bros., \$12,733; (b) \$95.

F. C. Schilling, \$12,981; (b) \$283.

Lohman Bros., \$13,134; (a) \$100; (b) \$260.

Pacific Pipe & Supply Co., \$13,272; (b) \$287.

Walter H. Smith, \$13,300; (a) \$50; (b) \$270.

Johnson & Reed, \$13,896; (b) \$254.

Foss Heating & Sheet Metal Works, \$13,997; (b) \$260.

W. H. Robinson, \$14,129; (b) \$227.

W. P. McArthur, \$14,228; (b) \$236.

American Eng. Const. Co., \$14,337; (b) \$286.

F. J. Reese Plumbing Co., \$15,300; (b) \$212.

Mechanical Complete

Walter H. Smith, Long Beach \$16,100; (a) \$50; (b) \$300.

The Quarters for Night Attendants

two-story reinforced concrete walls and floors, tile partitions and tile roof on wood construction. Total floor area approx. 7600 sq. ft.

The Quarters for Day Attendants is two-story reinforced concrete walls, wood floor, partition and roof construction and tile roof. Total floor area approx. 6800 sq. ft.

The residence is one-story frame exterior and stucco walls and shingle roof and of approx. 1800 sq. ft.

HOTELS

Plans Completed
HOTEL Cost, \$1,000,000

STOCKTON, San Joaquin Co., Cal. N El Dorado and Oak Sts. (Head of McLeod's Lake) (150x150 feet).

Sixteen-story Class A steel frame and reinforced concrete hotel (152 rooms, 33 2 to 6-room apts. and 10 stores).

Owner—Delta Hotel Corp. composed of L. F. Grimsley, A. B. Lang, Hart L. Weaver, Philip Cahn, C. M. Menzies and Edward H. Wagner et al.

Architect—Oscar R. Thayer, 110 Sutter St., San Francisco.

It is expected to call for bids in about two weeks.

Contract Awarded.

HOTEL \$300,000
CLOVIS, New Mexico.

Ten-story class A hotel.

Owner—Southern National Hotels, Medical Arts Bldg., Galveston, Texas.

Architect—Andrew Fraser, American National Insurance Bldg., Galveston, Texas.

Contract—Linderhill Const. Co., Oliver-Eagle Bldg., Amarillo, Tex.

ICE AND COLD STORAGE PLANTS

Plans Being Prepared.
IMPROVEMENTS Cost, \$100,000

SAN FRANCISCO.
Double capacity of shipside refrigerating facilities.

Owner—California State Harbor Commission.
Engineer—F. G. White, Ferry Bldg.

February 17, 1931
Structural Steel Contract Awarded.

ICING PLANT Cost, \$150,000
SACRAMENTO, Cal. Ninth and C Streets.

Reinforced concrete refrigerator car icing plant.

Owner—Consumers Ice & Cold Storage Co., 9th and L Sts., Sacramento.

Plans by Contractor.
Contractor—W. W. Williamson, 320 Market St., San Francisco.

Structural Steel Schradler Iron Works, 1247 Harrison St., S. F.

The addition will house cold storage and pre-cooling of perishable commodities to be handled by the Western Pacific Railroad.

VILLA PARK, Los Angeles Co., Cal.

—The Villa Park Orchards Association, Villa Park, H. D. Nichols, secretary and manager, reports erection of two-story and basement reinforced concrete precooling plant adjoining their present packing house in Villa Park.

Capacity of 85 carloads. Cost, \$75,000. H. A. Hamm, 2145 Sacramento St., Los Angeles, engineer in charge of packing house addition.

POWER PLANTS

PASADENA, Cal.—Plans for the steam turbine for the new addition to

the generating works of the Municipal Light & Power Department have been submitted to the city directors. Will have a capacity of 25,000 kilowatts and will cost about \$400,000.

BOULDER CITY, Nev.—Southern

Siyerras Power Company will start work within a few weeks on the construction of a \$250,000 substation at Boulder Dam site. The company's power line, between Victorville and the Colorado river, is now under construction.

GRIDLEY, Butte Co., Calif.—Until

Mar. 9, 8 P. M., new bids will be received by J. L. Lewis, city clerk, to furnish and install one Diesel engine generating unit with auxiliary pumps, motors, equipment and materials. Previous bids rejected. Certified check or surety bond 10% required with bid.

Specifications on file in office of clerk. Bids previously received and rejected on this unit follow: Worthington Co., San Francisco, \$10,648 for 100-hp., and \$11,989 for 125-hp.; Fairbanks, Morse Co., San Francisco, \$15,833; U. S. Machinery Co., San Francisco, \$17,519.

The above equipment is for the purpose of replacing the present inadequate steam plant standby service.

SEATTLE, Wash.—Aluminum Co. of America (Pacific Coast headquarters, San Francisco) is at \$77,135 awarded contract by Board of Public Works to furnish 736 miles of transmission conductor for the Diablo-Skagit line.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

LAS VEGAS, Nevada—Clark county supervisors are considering sketches submitted by five architects for the construction of an addition to the Clark county courthouse in Las Vegas, Nevada.

The ground floor of the building would contain offices and the second floor a new jail. Permission to sell bonds in the sum of \$150,000 to finance the project was passed at the last session of the Nevada state legislature. The following architects presented sketches: Paul Warner, A. L. Worswick and Jns. A. Fleming, all of Vegas; F. J. De Longchamps, Reno; and Howard E. Jones, San Bernardino.

Mr. De Longchamps was the architect for the present courthouse.

SAN FRANCISCO—Until March 2, 2 P. M., bids will be received by Trustees of the War Memorial of San Francisco, 451 Montgomery St., for furnishing of structural steel and the erection of structural steel in connection with the San Francisco War Memorial Buildings. Contract involves approximately from 5500 to 6000 tons. Certified check in an amount of not less than \$5000 required with bid to be made payable to the Trustees of the War Memorial of San Francisco. Arthur Brown Jr., and G. Albert Lansburgh, architects. Plans obtainable from Room 206, Charleston Bldg., 251 Kearny St., after 2 P. M., on February 20, on deposit of \$10, returnable.

REDWOOD CITY, San Mateo Co., Cal.—San Mateo County Auditorium Committee has called a special meeting to be held in Redwood City tonight to discuss the advisability of financing construction of a county auditorium building to house various county conferences and festivals, including the Fall Flower Show, etc. Consideration is being given to a structure having a seating capacity

of between 5,000 and 10,000 persons. Elmer A. Roberts of Burlingame, is chairman of the county committee.

Preparing Working Drawings.
FIRE HOUSE Cost, \$45,000
 SAN FRANCISCO. Filbert and Webster Streets.
 Brick fire house.
 Owner—City and County of San Francisco (S. J. Hester, secretary, Board of Public Works).
 Architect—W. E. Baumberger, 251 Kearny Street.

The structure will house an engine company, truck company, chemical company and hose tender. Preliminary plans have already received the approval of the Fire Commission.

February 18, 1931

Contract Awarded.
ADDITION Cost, \$250,000
 SAN FRANCISCO. Golden Gate Park Addition to present Academy Building (steel and brick construction)
 Owner—California Academy of Science
 Premises.
 Architect—Lewis P. Hobart, Crocker Bldg., San Francisco.
 Engineer—T. Ronneberg, Crocker Bldg., San Francisco.
 Contractor—Cahill Bros., 206 Sansome St., San Francisco.

SAN JOSE, Santa Clara Co., Cal.—H. C. Miller, Santa Clara, at \$698 submitted lowest bid to Public Works Officer, 12th Naval District, San Francisco, to install temporary partitions, mezzanine floors, electrical work and heating at the U. S. Naval Reserve Armory, Post and Market Sts., San Jose. Following is a complete list of the bids:

H. C. Miller, Santa Clara.....	\$ 698
G. N. Latta, San Jose.....	762
Fred. Anderson, Oakland.....	769
Roy Lind, San Francisco.....	770
Theo. Johanns, San Francisco.....	798
Geo. L. Honore, San Jose.....	864
N. Hemmling, San Jose.....	1,180
Fink & Schindler, S. F.....	1,190
T. B. Goodwin, San Francisco.....	1,279
Emil Person, Berkeley.....	1,431
Brass & Kuhn, San Francisco.....	1,956

Bids held under advisement.

RESIDENCES

Sub-Figures Being Taken.
RESIDENCE Cost, \$—
 BERKELEY, Alameda Co., Cal. Location withheld.
 One-story and basement frame and stucco residence (6 rooms).
 Owner and Builder—E. R. Converse, 1088 53rd St., Oakland.
 Plans by Owner.

Plans Being Prepared.
RESIDENCES Cost, \$—
 OAKLAND, Alameda Co., Cal. Location withheld.
 Five 1-story and basement frame and stucco residences.
 Owner and Builder—E. R. Converse, 1088 53rd St., Oakland.
 Plans by Owner.

Contract Awarded.
RESIDENCE Cont. Price \$47,580
 SAN FRANCISCO. Broadway near Baker Street.
 Two and one-half-story and basement frame and brick veneer residence with slate roof.
 Owner—Dr. A. Lincoln Brown, Medical-Dental Bldg., San Francisco.
 Architect—Bakewell & Weihe, 251 Kearny St., San Francisco.
 Contractor—Young & Horstmeier, 461 Market St., San Francisco.

Plans Being Prepared.
RESIDENCES Cost, \$10,500 & \$11,000
 SAN FRANCISCO. Merced Manor (60-acre tract).
 450 1- and 2-story frame and stucco residences.

Owner and Builder—William A. Nelson, 2198 Ocean Ave.
 Plans by Owner.

Preparing Working Drawings.
RESIDENCES \$6000 and \$7000 ea
 SAN FRANCISCO. Kirkham St. (Sunset District).
 Twelve two-story frame and stucco residences (5 and 6 rooms each).
 Owner—Withheld.
 Architect—Fabre & Hillebrand, 110 Sutter St., San Francisco.

Sub-Bids Wanted.
RESIDENCE Cost, \$10,000
 ERKELEY, Alameda Co., Cal. 2520 Marin Avenue.
 Two-story and basement frame and stucco residence (7 rooms).
 Owner—H. H. Brown, 1120 24th St., Richmond.
 Architect—Not Given.
 Contractor—E. R. Converse, 1088 53rd St., Oakland.

Sub-bids are wanted on tile roofing, tile work, gas heating system, hardwood flooring, cabinet work, iron work, sheet metal, plastering, sash and doors.
 Following sub-contracts awarded.
Rough Lumber—Swift Lumber Co., 340 29th Ave., Oakland.
Electric Wiring—R. M. Converse, 1030 Galvin St., Oakland
Concrete Material—Jas. A. Davis Co., 517 Fairmont, Berkeley.

Sub-Bids Being Taken.
RESIDENCE Cost, \$14,000
 HILLSBOROUGH, San Mateo Co., Calif.
 Two-story and basement frame and stucco residence (9 rooms and 3 baths).
 Owner and Builder—Allan McIntyre, 446 Highland, San Mateo.
 Plans by Grimes & Schoening, Balovich Bldg., San Mateo.

Contract Awarded.
RESIDENCE Cost approx. \$20,000
 PIEDMONT, Alameda Co., Cal.
 Two-story and basement frame and stucco residence (10 rooms).
 Owner—Mary Krough.
 Architect—Miller and Warnecke, Financial Center Bldg., Oakland.
 Contractor—Jensen & Pedersen, 3443 Adeline St., Oakland.

WOODLAND, Yolo Co., Cal.—Julius Hofmeister, Woodland, at approximately \$12,000 awarded contract to rebuild the F. L. Scott residence in Tenth Street, destroyed by fire.

Contract Awarded.
RESIDENCE Cost, \$8000
 STOCKTON, San Joaquin Co., Cal.
 One and one-half-story frame and stucco residence.
 Owner—A. C. Weber, 1766 W-Willow St., Stockton.
 Architect—Glenn Allen, Union Block Bldg., Stockton.
 Contractor—T. E. Williamson, 1849 W-Park Ave., Stockton.

Contract Awarded.
RESIDENCE Cont. Price, \$15,200
 SACRAMENTO, Sacramento Co., Cal.
 Two-story and basement frame and stucco residence (10 rooms and 3 baths).
 Owner—J. L. Mayden, Sacramento.
 Architect—Starks & Flanders, Forum Bldg., Sacramento.
 Contractor—Azevedo & Sarmento, 920 G St., Sacramento.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$15,000
 ATHERTON, San Mateo Co., Calif.
 Alterations and additions to residence
 Owner—E. H. Heller, Atherton Ave. Atherton.
 Architect—Henry H. Gutterston, 526 Powell St., San Francisco.
 Contractor—Clinton - Stephenson Construction Co. Monadnock Bldg., San Francisco.

Concrete Materials—Redwood Materials Co., Maple Ave., Redwood City.
Mill Work—National Mill & Lumber Co., 250 California St., San Francisco.
Glass—Cobbleddick - Kibbe Glass Co., 666 Howard St., San Francisco.
Electric Work—National Electric Co., 1080 Howard St., San Francisco.
Plumbing and Heating—W. E. Trousdale, 422 Turk St., San Francisco.
Tile Roofing—Slate Roofing Co., Plastering—A. W. Cordes 666 Mission St., San Francisco.
Lumber—McCallum Lumber Co., 748 Bryant St., San Francisco.
Brick Work—Harry Ohran, 1237 Laguna Ave., Burlingame.
Painting—E. J. Moklofsky & Son, 61 N Ellsworth Ave., San Mateo.
Reinforcing Steel—W. C. Hauck & Co., 259 San Ermo Ave., San Francisco.

Preparing Plans.
RESIDENCE Cost, \$60,000
 LOS ANGELES, Cal. Los Feliz Hills.
 Two-story frame and stucco residence (14 rooms).
 Owner—Mr. Mortensen.
 Architect—Robert H. Goody, 624 S La Brea Ave., Los Angeles.

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Lumber Contract Awarded.
RESIDENCE Cost, \$8500
PIEDMONT, Alameda Co., Calif.
Two-story and basement frame and stucco residence.
Owner—W. Tyson.
Architect—Charles F. B. Roeth, 1444 Franklin St., Oakland.
Contractor—David Nordstrom, 13 Nace St., Oakland.
Lumber—Sunset Lumber Co., 400 High St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. No. 2529 Marin Avenue.
Two-story and basement frame and stucco residence (7 rooms).
Owner—H. H. Brown, 1120 24th St., Richmond.
Architect—Not Given.
Contractor—E. R. Converse, 1088 53rd St., Oakland.

Completing Plans.
RESIDENCE Cost, \$11,000
SAN FRANCISCO. Monterey Blvd. and Westgate Ave.
Two-story and basement frame and stucco residence (9 rooms and 3 baths).
Owner and Builder—S. R. Anderson, 1433 7th Ave.
Architect—Not Given.
Sub-bids will be taken within a few days. Tile and composition roofing, gas and hot air heating system.

Plans Being Prepared.
RESIDENCE Cost, \$5000
SAN LEANDRO, Alameda Co., Calif. Estudillo Estates.
One-story and basement frame and stucco residence (6 rooms).
Owner—Withheld.
Plans by Ralph Wood, 1197 Foothill Blvd., San Leandro.

Bids Opened Cost, \$13,000
RESIDENCE
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and stucco residence (8 rooms and 3 baths; single roof, gas heating system)
Owner—W. G. Hunt.
Architect—Fring & Lesswing, 605 Market St., San Francisco.
Following is a complete list of the bids received:
A. McLachlan, 751 Winchester Drive, Burlingame \$11,985
Wm. Short, Palo Alto 12,297
E. S. Shaver, Burlingame 12,467
Buschke & Johnson, Burlingame 13,250
The Minton Co., Mt. View 13,471
Bids held under advisement.
(4933) 1st rep. Feb. 2, 1931.

Contract Awarded.
RESIDENCE Cost, \$6000
STOCKTON, San Joaquin Co., Calif. Driscoll Avenue.
Two-story frame and stucco residence (6 rooms).
Owner—H. F. Ahearn, Bank of Italy Bldg., Stockton.
Architect—Victor Galbraith, Elks Bldg., Stockton.
Contractor—T. E. Williamson, 1859 W Park Ave., Stockton.
Contract awarded at \$5,950 with some additions.

Preparing Plans.
FRATERNITY HOUSE Cost, \$50,000
WEST LOS ANGELES, Cal. 655 S Gayley Avenue.
Two-story and basement reinf. concrete fraternity house (35 rooms).
Owner—California Deta Bldg. Assn.
Architect—Kemper Nomland, Architects' Bldg., Los Angeles.
Lessee—Sigma Alpha Epsilon Fraternity.

Plans Being Figured.
RESIDENCE Cost, \$18,000
STOCKTON, San Joaquin Co., Cal. North Cross Addition (Pine St.)
Two-story and basement brick veneer residence (11 rooms, 4 baths).
Owner—L. E. Renney, 415 East Miner St., Stockton.
Architect—J. U. Cloudsley, Exchange Bldg., Stockton.
Slate roof, hot water system with gas fire boiler.

Sub-Contracts Awarded.
RESIDENCES Cost, \$14,000 each
SAN FRANCISCO. E Lake Street S Camino Del Mar.
Two two-story and basement frame and stucco residences.
Owner—Allen & Co., Inc., 168 Sutter St., San Francisco.
Architect—Hyman and Appleton, 68 Post St., San Francisco.
Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco.
Grading—Sibley Grading & Teaming Co., 165 Landers St. S. F.
Reinforcing Bars—W. S. Wetenhall, 17th and Wisconsin Sts., S. F.
Other awards will be made shortly.

Construction Postponed Indefinitely.
RESIDENCE Cost, \$200,000
WOODSIDE, San Mateo Co., Cal.
Two-story and basement brick veneer residence (22 rooms, 8 baths).
Owner—Randolph Schilling, 225 Bush St., San Francisco.
Architect—Reginald D. Johnson, Architects' Bldg., Los Angeles.
Heavy shingle roofing, wrought iron, tiled bathrooms, steam heating system, oak floors, cedar, pine and hardwood floors and paneling, steel windows, landscaping, etc.

Project Abandoned.
RESIDENCE Cost, \$16,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and stucco residence (8 rooms and 3 baths).
Owner—Dr. E. E. Porter, Security Bldg., San Jose.
Architect—Wolfe & Higgins, Realty Bldg., San Jose.
On call for bids lowest bid was submitted by S. Fiore, San Jose, at \$11,250.

Segregated Bids Being Taken.
RESIDENCE Cost, \$20,000
STOCKTON, San Joaquin Co., Cal. Oxford Manor.
Two-story and basement brick veneer residence (8 rooms, 2 baths; tile roof).
Owner—Peter Maringo, 45 W. Maple St., Stockton.
Architect—Joseph Losekann, 1218 W. Harding St., Stockton.

Owner Will Erect By Day Labor.
BUNGALOWS Cost each \$5,000
SANTA ROSA, Sonoma Co., Calif. Proctor Terrace.
Ten 1-story frame and stucco bungalows.
Owner—Mutual Home Builders' Assn., Santa Rosa.
Plans by Owners.
The company is now completing the erection of 17 bungalows in the Proctor tract.

Sub-Bids Being Taken.
RESIDENCE Cost, \$11,000
SAN FRANCISCO. Monterey Blvd. and Westgate Ave.
Two-story and basement frame and stucco residence (9 rooms and 3 baths).
Owner and Builder—S. R. Anderson, 1433 7th Ave., San Francisco.
Architect—Not Given.
Tile and composition roofing, gas and hot air heating system.

Plans Being Figured.
RESIDENCE Cost Approx. \$15,000
SAN FRANCISCO. Forest Hill.
Two-story and basement frame and stucco residence.
Owner—Dr. R. Gilbert, 2633 Turk St., San Francisco.
Architect—Henry Smith and Albert Williams, Humboldt Bank Bldg., San Francisco.

Contract Awarded.
SORORITY HOUSE
RESIDENCE Cost Approx. \$30,000
BERKELEY, Alameda Co., Cal. Piedmont Avenue.
Three-story and basement frame and stucco sorority house (22 rooms).
Owner—Alpha Delta Phi, Berkeley.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
Contractor—H. C. Pfrang, 5659 Ocean View Drive, Oakland.

Sub-Bids Being Taken.
RESIDENCE Cost, \$15,000
HILLSBOROUGH, San Mateo Co., Calif.
Two-story and basement frame and stucco residence (9 rooms and 3 baths).
Owner and Builder—A. M. Schultz, 120 Bancroft Road, San Mateo.
Plans by Grimes & Schoening, Balovich Bldg., San Mateo.

Plans Being Prepared.
RESIDENCES Cost, \$—
HAYWARD, Alameda Co., Calif.
Two residences (one-story and basement frame and stucco and two-story frame and stucco residence)
Owner—Withheld
Plans by J. J. Thorup, 227 Main St., Hayward.

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Sub-Contracts Awarded.
RESIDENCE Cost, \$12,000
SAN FRANCISCO, Washington St.
 Two-story and basement frame and
 stucco residence.
 Owner—Dr. E. H. Howell, 909 Hyde
 Street.
 Architect—Harris Allen, 1924 Broad-
 way, Oakland.
 Contractor—J. Harold Johnson, Hearst
 Building.
Masonry—R. S. Holding, 334 28th Ave.
Structural Steel—Mortensen Const. Co.,
 608 Indiana St.
Lumber—J. H. McCallum, 748 Bryant
 Street.
Mill Work—National Mill & Lumber
 Co., 230 California St.
Sheet Metal—J. J. Delucchi, 1526 Pow-
 ell Street.
Roofing—Alta Roofing Co., 976 Indi-
 ana Street.
Tile—Scott Co., 243 Minna St.
Glass—Cobblewick-Kibbe Glass Co., 666
 Howard St.
Painting—W. Koehlenz.
Plumbing—S. W. Band, 191 Valencia.
Electric Work—Galvin Bros.
Iron—Patterson & Koster, 280 13th St.
Concrete—California Concrete Co., 1632
 Steiner St.
 Sub-bids are wanted on plastering and
 hardwood flooring.

SCHOOLS

Plans Being Completed.
SCHOOL Cost, \$30,000
SANTA CLARA, Santa Clara Co., Cal.
 Reinforced concrete elementary school
 Owner—Santa Clara School District.
 Architect—Ralph Wyckoff, 19 N-
 Second St., San Jose.
 This structure will be financed with
 monies now in the district's Reserve
 Fund.
 Bids will be advertised in about ten
 days and will probably be opened
 either March 10 or March 17.

BERKELEY, Alameda Co., Cal.—
 Board of Education, by a vote of 3 to
 2, rejects proposal to submit to the
 voters the proposition of raising the
 district school tax by 30 cents on each
 \$100 of assessed valuation, the money
 to be used in the erection of new
 schools and additions to standing
 school buildings.

Bids To Be Taken In One Week.
CAFETERIA Cost, \$25,000
YUBA CITY, Sutter Co., Cal. Yuba
 City High School.
 One-story reinforced concrete cafe-
 teria.
 Owner—Yuba City Union High School
 District.
 Architect—Chas. F. Dean, California
 State Life Bldg., Sacramento.

Contracts Awarded.
ADDITIONS Cost, \$—
PACIFIC GROVE, Monterey Co., Cal
 Furnish and install stage curtain,
 stage cyclorama and auditorium
 window drapes; furnish and in-
 stall electric light fixtures and
 lamps for high school addition.
 Owner—Pacific Grove High School
 District, Dr. J. J. Williams, Clerk.
 Architect—W. H. Weeks, 111 Sutter
 St., San Francisco.
Curtains, Etc.—Fred E. Turner, Stock-
 ton.
Lighting Fixtures—Wm. McConnell,
 443 Alvarado St., Monterey.

Preparing Preliminary Sketches.
SCHOOL Cost, \$78,000
CARMEI, Monterey Co., Cal.
 Grammar school building.
 Owner—Sunet School District.
 Architect—Swartz & Ryland, Spazer
 Bldg., Monterey.

Contracts Awarded.
LABORATORY Cost, \$120,000
LA JOLLA, San Diego Co., Cal.
 Scripps Institution of Oceano-
 graphy.
 Two-story reinforced concrete labora-
 tory (46x100 feet).
 Owner—University of California, 405
 Hilgard Ave., Los Angeles.
 Architect—Louis J. Gill, 32 Sefton
 Bldg., San Diego.

General Work
Jarboe Constr. Co., San Diego, \$43,000
Plumbing and Heating
 Lohman Bros., 232 S. Spring St., Los
 Angeles, \$25,916.
Electric Work
 Capital Electric Co., 3833 5th St.,
 San Diego, \$7000.

Refrigeration
 Baker Ice Machine Co., 351 S. An-
 cerson St., Los Angeles, \$12,290.
Laboratory Furniture
 E. H. Sheldon & Co., Box 226, Corte
 Madera, \$18,130.

Plumbing Heating and Electrical
 Contracts Awarded.
SCHOOL Cost, \$—
VISALIA, Tulare Co., Cal.
 Reinforced concrete academic building
 Owner—Visalia Union High School
 District.
 Architect—E. J. Kump Company, Ro-
 well Bldg., Fresno.

Contractor—G. A. Graham, 613 19th
 St., Bakersfield.
Painting—Wing Bros., Visalia.
Millwork and Glazing—Visalia Plan-
 ing Mill, Visalia.
Structural Lumber—Tulare County
 Lumber Co., Visalia.
Form Lumber—W. R. Spaulding Lum-
 ber Co., Visalia.
Tile and Composition Roof—O. H.
 Willoughby, Tulare.
Floor and Wall Tile—Fresno Marble
 & Tile Co., Fresno.
Blackboards—Fred E. Turner, Stock-
 ton (W. F. Gorrell, agent, Visa-
 lia).
Reinforcing Steel, Structural Steel,
Miscellaneous & Ornamental Iron,
and Toilet Partitions—Kyle & Co.,
 Fresno.

Plans Being Prepared.
ADDITION Cost, \$4000
WILLOWS, Glenn Co., Cal.
 Music and sunroom addition to High
 School gymnasium.
 Owner—Willows High School District
 Plans by Arthur Rempter, Artois.

Bonds Voted.
SCHOOL Cost, \$87,000
YUBA CITY, Sutter Co., Cal
 Two-story brick elementary school.
 Owner—Yuba School District; C. P.
 Taylor, Roy E. Cassidy and Eliza-
 beth Z. Littleton (clerk), trustees
 of district.
 Architect—Davis - Pearce Company
 Inc., Builders' Bldg., Stockton.
 Working drawings are being pre-
 pared.
 (1155) 1st rep. Dec. 17, 1930; 4th rep.
 Jan. 17, 1931.

Bids To Be Asked at Once
ADDITION Cost, \$75,000
MADERA, Madera Co., Cal
 Class C brick addition to high school.
 Architect—Davis - Pearce Co., Grant
 and Webster Sts., Stockton.
 Bids will be advertised for in about
 three weeks.

Trustees of the district at a recent
 meeting voted to ask bids for con-
 struction on the segregated basis.

Plans Being Figured—Bids Close Mar.
 5, 2 P. M.
ALTERATIONS Cost, \$130,000
PULLMAN, Wash. University Camp-
 us.
 Alterations and general repairs to
 Science Hall.
 Owner—University of Washington.
 Architect—John Graham, Dexter-Hor-
 ton Bldg., Seattle.

Plans are obtainable from the ar-
 chitect. The work involves plumbing,
 heating, ventilating, new wood trim,
 replastering, painting, new floors, re-
 roofing, fire escapes and repairing the
 existing structure.

Preparing Working Drawings.
AUDITORIUM Cost, \$25,000
SACRAMENTO, Sacramento Co., Cal.
 One-story and basement brick audi-
 torium.
 Owner—St. Joseph's Academy.
 Architect—Harry Devine, California
 State Life Bldg., Sacramento.
 Bids will be taken in about two
 weeks.

Sub-Contracts Awarded.
SCHOOL Cost price, \$62,563
VISALIA, Tulare Co., Cal.
 Reinforced concrete academic building
 Owner—Visalia Union High School
 District.
 Architect—E. J. Kump Company, Ro-
 well Bldg., Fresno.

Contractor—G. A. Graham, 613 19th
 St., Bakersfield.
Painting—Wing Bros., Visalia.
Millwork and Glazing—Visalia Plan-
 ing Mill, Visalia.
Structural Lumber—Tulare County
 Lumber Co., Visalia.
Form Lumber—W. R. Spaulding Lum-
 ber Co., Visalia.
Tile and Composition Roof—O. H.
 Willoughby, Tulare.
Floor and Wall Tile—Fresno Marble
 & Tile Co., Fresno.
Blackboards—Fred E. Turner, Stock-
 ton (W. F. Gorrell, agent, Visa-
 lia).
Reinforcing Steel, Structural Steel,
Miscellaneous & Ornamental Iron,
and Toilet Partitions—Kyle & Co.,
 Fresno.

UKIAH, Mendocino Co., Cal.—Ukiah
 Plumbing and Heating Co., Ukiah, at
 \$335 awarded contract by Ukiah Union
 High School District, to furnish
 and install lawn sprinkler system at
 high school grounds. Complete list of
 bids follows:
 Ukiah Plumbing & Heating Co.,..... \$335
 Ukiah..... 350
 H. W. Salls, Ukiah..... 354
 Ukiah Farmers Club, Ukiah..... 355
 A. C. Mack, Ukiah..... 950
 Nu-Way Lawn Sprinkler Co., 142
 McAllister St., San Francisco 956

Low Bidders.
DORMITORY Cost, \$—
WEST LOS ANGELES, Cal. Hilgard
 Avenue.
 Three-story and basement Class A re-
 inforced concrete dormitory (ac-
 commodate 125 girls).
 Owner—Regents of the University of
 California.
 Architect—Douglas McLellan, Archi-
 tects Bldg., Los Angeles, and Geo.
 W. Keham, 315 Montgomery St.,
 San Francisco.
 Low Bidder—Herbert M. Baruch Corp.
 Lincoln Bldg., Los Angeles, at
 \$184,635.

Other low bidders were: Heating
 and ventilating, Lohman Bros., 232 S.
 Spring St., Los Angeles, at \$27,000;
 electrical, Electric Lighting Supply
 Co., 216 W. 3rd St., Los Angeles, at
 \$13,275; plumbing, Howe Bros., 1188
 S. San Pedro St., Los Angeles, at
 \$18,660.

Contract Awarded.
AUDITORIUM Cost, \$124,838
SAWTELLE, Los Angeles Co., Cal.
 SE Texas and Westgate Aves.
 Two-story Class A reinforced con-
 crete and brick school auditorium
 (88x190 feet) (10 rooms)

Owner—Los Angeles School District.
 Architect—A. S. Nibecker Jr., Los
 Angeles.
 Contractor—J. F. Kohler, 932 Rim-
 pau Blvd., Los Angeles.
 Other awards as follows: Plumbing to
 F. D. Reed Plumbing Co., 1573 E.
 23rd St., at \$6062; heating and venti-
 lating to Coony & Winterbottom, 2425
 Hunter St., at \$19,200; painting to
 T. A. Rucker, 1012 S. Adams St., Glen-

dals, at \$1753; electrical to Foulkes Electric Co., 735 Wall St., at \$790.

Bids Wanted.
SCHOOL Cost, \$115,000
ALHAMBRA, Los Angeles Co., Cal. Emory Park School Site.
 Two-story and basement reinforced concrete and brick school (200x 114 feet).
 Owner—Alhambra City School District
 Architect—Richard C. Farrell, 111 S Second St., Alhambra.
 Bids are to be opened March 5.

Preparing Preliminary Plans.
GYMNASIUM Cost, \$25,000
SAN DIEGO, San Diego Co., Cal. Gymnasium and swimming pool at State Teachers' College.
 Owner—State of California
 Architect—W. H. Wheeler, California Bank Bldg., San Diego.

Bids Opened.
GYMNASIUM, ETC. Cost, \$—
MONTEREY, Monterey Co., Cal. One-story reinforced concrete academic building with tile roof.
 Owner—Monterey Union High School District.
 Architect—Swartz & Ryland, Spazier Bldg., Monterey.

No. 1. General Contract
 M. J. Murphy, Carmel..... \$33,991
 Young & Horstmeier, S. F..... 34,860
 C. N. Swenson, San Jose..... 35,305
 Cobby & Son, San Francisco..... 39,983

No. 2. Mill Work
 Union Supply Co., Monterey..... \$,869
 M. J. Murphy, Carmel..... 9,509
 S. Hook, Monterey..... 9,560
 T. A. Work, Monterey..... 9,612
 Home Mfg. Co., San Francisco..... 10,181

No. 3. Oak Floors
 Oak Floor Co., San Francisco..... \$1,470
 M. J. Murphy, Carmel..... 1,565
 Royal Floor Co., S. F..... 1,960
 J. W. Shaney, Monterey..... 2,037

No. 4. Linoleum
 Repe Bros., Pacific Grove..... \$3,049
 Rudolph Furniture Co., Pacific Grove..... 3,075
 Higgins Co., San Francisco..... 3,385

No. 5. Toilet Partitions
 Alhambra Co., San Francisco..... \$298
 Dwan and Co., San Francisco..... 300
 C. J. Hillard, San Francisco..... 321
 Price Bldg. Specialties Co., S. F..... 324

No. 6. Ornamental Tile
 C. L. Frost, Monterey..... \$1,768
 Art Tile & Mantel Co., S. F..... 2,250

No. 7. Lath and Plaster
 (a) exterior; (b) interior
 V. A. Kitchen..... (a) \$1900; (b) \$8177
 Overhulse..... (a) 2088; (b) 5039
 L. Bosch..... (a) 2598; (b) 4939
 A. Neilsen..... (a) 3160; (b) 7988
 J. H. Ingram..... (a) 3634; (b) 7597
 Orr..... \$6,488 for both (a) and (b)

No. 8. Blackboards
 Fabris Carpenter Co..... \$703
 F. E. Turner, Stockton..... 935
 C. F. Webster, San Francisco..... 995

No. 9. Painting
 H. C. Brown..... \$3,255
 Patterson..... 3,292
 Raphael Co., San Francisco..... 3,452
 Krudwig, Monterey..... 4,440
 Altaire, Carmel..... 6,328

No. 10. Plumbing
 Anderson & Dougherty, Salinas..... \$6,371
 Barton Oil-o-Matic, Monterey..... 6,659
 Phillips Heating Co., Monterey..... 8,071

No. 11. Heating
 Anderson & Dougherty, Salinas..... \$4,695
 Barton Oil-o-Matic, Monterey..... 5,837
 Geo. Schuster, Oakland..... 6,458
 J. H. Ingram, Monterey..... 6,589

No. 12. Sheet Metal
 Vosmer, Monterey..... \$1,141
 Dunn Sheet Metal Works..... 1,185
 Phillips Heating Co..... 1,369
 Barton Oil-o-Matic, Monterey..... 1,550
 Anderson & Dougherty, Salinas..... 2,142

No. 13. Ventilating
 Anderson & Dougherty, Salinas..... \$345
 Barton Oil-o-Matic, Monterey..... 327
 Vosmer, Monterey..... 450
 E. H. Cordts, Monterey..... 462

No. 14. Glass

East Bay Glass Co., Oakland..... \$749
 W. P. Fuller Co., S. F..... 898

No. 16. Venetian Blinds
 C. F. Weber Co., S. F..... \$1,237
 Fabris Carpenter Co..... 1,250
 Repe Bros., Pacific Grove..... 1,378
 Rudolph Furniture Co., Pacific Grove..... 1,398

No. 17. Roofing
 Tynan Lumber Co., Monterey..... \$5,100
 C. L. Frost, Monterey..... 5,688

No. 18. Ornamental Iron
 C. J. Hillard Co., S. F..... \$1,560
 Michel & Pfeffer Iron Works, San Francisco..... 1,530
 Fair Mfg. Co., San Francisco..... 2,193
 M. J. Murphy, Carmel..... 2,552

No. 19. Electrical Work
 McConnell, Monterey..... \$10,354
 Tice Electric Co., Monterey..... 10,371
 Langlais Electric Co., S. F..... 10,976
 Reardon, Carmel..... 11,639

No. 20. Steel Equipment
 Worley Co., San Francisco..... \$3,467
 C. J. Hillard Co., S. F..... 3,645
 All bids taken under advisement. It is expected that all contracts will be awarded Thursday evening, Feb. 19.

Preparing Working Drawings.
SCHOOL Cost, \$87,000
YUBA CITY, Yuba Co., Cal. Two-story brick elementary school.
 Owner—Yuba School District: C. P. Taylor, Roy E. Cassidy and Elizabeth Z. Littleton (clerk), trustees of district.
 Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.
 Plans will be ready for bids in about sixty days.

Preliminary Plans Approved.
SCHOOL Cost, \$25,000
SEBASTOPOLE, Sonoma Co., Cal. Two-story class C brick high school.
 Owner—Analy Union High School District.
 Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.
 Landscape Architect—Howard Gilkey, 337 17th St., Oakland.
 Bond election will be held shortly.

Commissioned to Prepare Plans.
BUILDING Cost, \$100,000
SAN FRANCISCO. State Teachers College (124 Buchanan St.)
 Additional classroom building.
 Owner—State of California.
 Architect—S. Helman, 605 Market St.

Bonds voted to Finance.
ALTERATIONS Cost, \$130,000
ALBANY, Alameda Co., Cal. Alterations and additions to schools.
 Owner—Albany School District (John F. West, Supt. of Schools).
 Architect Not Yet Selected.

The schedule for improvements at the two schools, as announced by the Albany Board, follows:
 Cornell School—six classroom addition, \$35,695; new heating plant and equipment, \$8000; new furniture, \$2,000; cleaning and surfacing playground \$1250; fencing playground, \$1371; physical and recreational apparatus, \$1250; total \$49,566.
 Marin School—Ten classroom addition, \$7,453; new furniture, \$2,250; grading grounds to remove dangerous embankments, \$2100; surfacing playground, \$960; fencing playground, \$2,220; physical and recreational apparatus, \$1250; total \$86,333.

Grand total for both schools, \$135,899. Balance of \$589 above \$130,000 school bond issue to be met out of general funds.

Sub-Contracts Awarded.
SCHOOL Cost Approx. \$300,000
OKLAND, Alameda Co., Cal. Piedmont Highlands (Edith Street near Morpeth).

Group of reinforced concrete high school buildings (academic buildings, auditorium and gymnasium; accommodate 500).

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
 Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.
 Contractor—James L. McLaughlin, 251 Kearny St., San Francisco.
 Buildings will be constructed for the Sisters of The Holy Name.
 Excavation—Ariss Knapp Co., 961 41st St., Oakland.

Reinforcing Steel and Steel Forms—Concrete Engineering Co., #280 Indiana St., San Francisco.
 Other awards will be made shortly.

Sub-Contracts Awarded.
SCHOOL Cost, \$—
SAN FRANCISCO. Noe and 25th Sts. Class A junior high school building (3-story and basement concrete, Travertine exterior, tar and gravel roof; to accommodate approx. 800 students).
 Owner—City and County of San Francisco.

Architect—Crim, Reising and McGuinness, 488 Pine St.
 Contractor—Anderson & Ringrose, 320 Market Street.
 Excavation and grading, J. P. Holland, 1834 McKinnon Ave.
 Reinforcing steel, Truscon Steel Co., Cal Bldg.
 Marble, J. E. Back Co., 1533 San Bruno Ave.
 Lumber, Loop Lumber Co., Central Basin.

Acoustic treatment, Western Asbestos Magnesia Co., 25 South Park.
 Plumbing and gas fitting, Turner Co., 229 Tehama St.
 Mechanical equipment, Herman Lawson, 465 Tehama St.
 Electric work, Alta Electric Co., 976 Indiana St.

Miscellaneous and ornamental iron, E. Klores, 477 Clementina St.
 Sheet metal, Fire Protection Products Co., 1101 16th St.
 Metal lockers, Lyons Metal Company, Hunter-Dull Bldg.
 Metal Sash—Price Bldg. Specialties Co., 683 Howard St.
 Steel sash, Michel and Pfeffer Iron Works, 1415 Harrison St.
 Wire Fencing, Michel & Pfeffer Iron Works, 1415 Harrison St.
 Concrete—Readymix Concrete Co., 575 Berry St.

Linoleum and Linotile—Commercial Linoleum Co., 507 Howard St.
Vault Doors—Hermann Safe Co. Howard and Main Streets.
 Shades—A. J. Ruhlman, 444 Golden Gate Avenue.

Glass—W. P. Fuller Co., 301 Mission Street.
Hardware—Palace Hardware Co., 581 Market St.
Painting—H. Ankers, 22 Lexington St.
Dumb Water—Price Bldg. Specialties Co., 683 Howard St.
Cafeteria and Kitchen Equipment—Fire Protection Prod. Co. 1101 16th Street.

Roofing and Dampproofing—Alta Roofing Co., 976 Indiana St.
Terrazzo—M. H. Gnecco & Co., 36 Wood St.
Cast Stone—Western Artificial Stone Co., 666 Brannan St.

Lathing and Plastering—P. Vannelli, 3235 Pierce St.
Wood Block Flooring—Pacific Redwood Floor Co., 311 California St.
Composition Slicepers—LeRoy Olson Co., 170 Hooper St.
Composition Wainscot and Table Tops—Flirstone & Roofing Co., 51 Ringold St.
Blackboards and Pinning Strips—F. E. Turner, Stockton.

SAN FRANCISCO—Severn Electric Co., 172 Clara St., at \$17,890 submitted low bid to Board of Public Works for electric work in connection with Wards K and L at the Laguna Honda

Home. Complete list of bids follows:
 Severin Electric Co. \$17,899
 L. Flatland. 18,000
 G. H. Armstrong. 18,790
 Charles Schmitt (as Superior Electric Co.) 18,800
 All bids taken under advisement.

BANKS, STORES & OFFICES

Preparing Plans
MARKET Cost, \$125,000
BEVERLY HILLS, Los Angeles Co., Cal. NW Wilshire and Beverly Bldgs.
 One-story reinforced concrete and brick market (287x57x78 feet); (Lamella type roof, steel sash, steel folding doors).
 Owner—Gore Bros.
 Architect—Balch Bros., Film Exchange Bldg., Los Angeles.
 Lessee—Union Market Co.

Structural Steel Contract Awarded.
STORE Cost, \$100,000
MODESTO, Stanislaus Co., Cal. No 922-924 Tenth Street.
 Two-story and basement Class C brick store (60x110 feet).
 Owner—S. H. Kress Co., Western Pacific Bldg., Los Angeles.
 Architect—Eng Dept. of Owner.
 Contractor—K. E. Parker, 135 South Park, San Francisco.
Structural Steel—McClintic-Marshall Co., 2050 Bryant St., San Francisco.
 Cement and wood floors, plate glass, metal store fronts, etc.
 Sub-bids are wanted on mill work and plastering. All other sub-bids are in and will be awarded shortly
 Construction will be started within one week

Contract Awarded.
AUTO SALES BLDG. Cost, \$25,000
SAN FRANCISCO, SE Geary Street and 21st Avenue.
 Two-story class C auto sales bldg.
 Owner—Twenty-first Avenue Baptist Church.
 Architect—F. W. Quandt, 2800 Filbert Street.
 Contractor—Joel Johnson, 666 Mission Street.

Contract Awarded.
ALTERATIONS Cost, \$30,000
SAN FRANCISCO, 214-18 Post St.
 Alterations to five-story class concrete building with terra cotta front.
 Owner—Eastman Kodak Co., 545 Market Street.
 Architect—Bliss & Fairweather, Balboa Building.
 Contractor—Barrett & Hilt, 918 Harrison Street.

WILLIAMS, Colusa Co., Calif.—Construction will be started shortly on a one-story brick, 40 by 90 ft., store building for the Williams Hardware Company, operated by E. A. Brim.

Plans Being Prepared.
STORE Cost, \$100,000
LOS ANGELES, Cal. Washington and Reed Streets.
 Two-story and basement class B brick and steel furniture store.
 Owner—Gore Brothers.
 Architect—Balch Brothers, Film Exchange Bldg., Los Angeles.

Contract Awarded.
ALTERATIONS Cont. price, \$22,485
FRESNO, Fresno Co., Cal. 1045 Fulton Street.
 Alterations to two-story and basement store (new front and interior work).
 Owner—Clark's Dollar Stores.
 Architect—Marshall R. Lawson, 614 S Pacific Ave., San Pedro.
 Contractor—W. T. Harris, 577 McKinley, Fresno.

Contract Awarded.
STORE Cost, \$100,000
PHOENIX, Arizona, SE First Ave. and Adams St.
 Two-story and basement concrete store (77x150 feet).
 Owner—Dr. R. W. Craig.
 Architect—Morgan, Walls & Clements Van Nuys Bldg., Los Angeles.
 Contractor—Wm. Pepper, Heard Bldg., Phoenix, Ariz.

Taking Revised Figures.
BANK Cost, \$500,000
PHOENIX, Arizona, SE Central Ave. and Monroe Street.
 Eleven-story Class A steel frame bank and offices.
 Owner—Valley Bank & Trust Co.
 Architect—Morgan, Walls & Clements Van Nuys Bldg., Los Angeles.

Elevator Contract Awarded.
ALTERATIONS Cost, \$5000
ALAMEDA, Alameda Co., Cal. No 2411 Santa Clara Ave.
 Alterations to building and install elevator.
 Owner—Bank of America, 625 Market St., San Francisco.
 Architect—H. A. Minton, Bank of America Bldg., San Francisco.
Elevator—Otis Elevator Co., 1 Beach St., San Francisco.
 Construction work will be done by day's labor by owner.

Plans Being Completed
BANK Cost, \$75,000
SAN MATEO, San Mateo Co., Cal. B St. and Third Ave. (110 ft. frontage).
 One-story concrete bank.
 Owner—Bank of Italy.
 Architect—H. A. Minton, Bank of Italy Bldg., Eddy and Powell Sts., San Francisco.
 Bids will be taken in about one week.

Contract Awarded.
BANK Cost, \$60,000
LOS GATOS, Santa Clara Co., Cal. Main St. and Santa Cruz Avenue (52x100 feet).
 One-story reinforced concrete bank with tile roof (ornamental stone and acoustical plaster).
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of America Bldg., San Francisco.
 Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco.
 There will be two stores, 20x72 feet in connection with the building.

Construction Started.
ADDITION Cost, \$25,000
SAN FRANCISCO, No. 48 Turk St.
 One-story concrete addition to building.
 Owner—Bell Bros., Mills Bldg., San Francisco.
 Architect—O'Brien Eros, and W. D. Peugh, 315 Montgomery St., San Francisco.

Lessee—Hoover Sweeper Company, 626 Golden Gate Ave., San Francisco
 Contractor—Cahill Bros., 206 Sansome St., San Francisco.
 Sub-bids are in and will be awarded shortly.

Plans Being Completed.
BANK Cost, \$50,000
MONTEREY, Monterey Co., Cal. SE Alvarado and Franklin Sts.
 One-story and basement reinforced concrete bank and store building (two stores).
 Owner—E. F. Wright, Monterey.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.
 Lessee—Bank of Italy and Palace Drug Company.

Bids will be taken in two or three weeks. H. A. Minton, Bank of Italy Bldg., San Francisco, will prepare plans for interior bank fixtures, etc.
 Bids will be called for shortly.

To Be Done By Day's Work By Owner
ELEVATOR Cost, \$—
ALAMEDA, Alameda Co., Cal. Santa Clara Avenue.
 Install elevator in bank.
 Owner—Bank of America, Bank of America Bldg., San Francisco.
 Architect—H. A. Minton, Bank of America Bldg., San Francisco.

Wrecking Under Way.
REMODELING Cost, \$—
SAN FRANCISCO, 553 Polson St.
 Remodel 3-story concrete loft building (new front, new concrete floor, new rear wall, etc.)
 Owner and Builder—Joseph Greenbach, Hearst Bldg.
 Engineer—John G. Little, 251 Kearny Street.
 Wrecking—Banks Wrecking Co., 1230 Howard St.

Contract Awarded.
STORES Cost, \$1,000,000
OAKLAND, Alameda Co., Cal. NW Twenty-first St. and Broadway.
 Eight-story and basement class A reinforced concrete furniture display rooms and stores, 100x280-ft.
 Owner—Pacific States Auxiliary Corp. Lessee—John Breuner Co., 15th and Clay Sts., Oakland.
 Architect—Albert F. Roller, 1st National Bank Bldg., San Francisco.
 Engineer—H. J. Brunner, Sharon Bldg., San Francisco.
 Contractor—F. J. Walker Co., Sharon Bldg., San Francisco.

Sub-Bids Being Taken.
OFFICES Cost, \$25,000
BURLINGAME, San Mateo Co., Calif. Broadway.
 Two-story steel frame and concrete office and store building.
 Owner & Builder—Leo Escaloes, 5486 Mission St., San Francisco.
 Plans by Russell Coleman, 1404 Broadway, Burlingame.

Sub-Contracts Awarded.
BANK Cost, \$200,000
MONTEREY, Monterey Co., Cal. Location not selected.
 One-story and mezzanine steel frame and concrete bank with tile roof.
 Owner—Monterey County Trust and Savings Bank.
 Architect—H. H. Winnier Co., 550 Market St., San Francisco.
 Manager of Const.—Mark Finlayson, care architect.
Structural Steel—McClintic Marshall Co., 2050 Bryant St., San Francisco.
Reinforcing Steel—Gunn, Carle & Co., 444 Market St., San Francisco.
 As previously reported, excavation awarded to M. J. Murphy, Carmel.

SANTA CRUZ, Santa Cruz Co., Cal.—I. C. Beaupre, Santa Cruz, at \$35 awarded contract by city council for purchase of the old buildings on the right-of-way for opening Vine Street between Locust and Church Sts. Other bids were: Dave Schuler and W. Frank, \$20.60; M. Allegrì, \$21; Enrico Brunetti, \$30.

Plans To Be Prepared.
ADDITIONS Cost, \$650,000
LOS ANGELES, Calif.
 Two wing additions to State Office Bldg. (Class A construction).
 Owner—State of California.
 Architect—Not Determined.
 It has not been decided whether plans for this work will be prepared by the State Division of Architecture or a private architect.

Sub-Contracts Awarded.

ALTERATIONS Cost, \$12,000
SAN FRANCISCO. No. 556 California Street.

Alterations for banking room.
Owner—The San Francisco Bank, 526 California St., San Francisco.

Architect—Ward & Blohme, 24 California St., San Francisco.

Contractor—C. W. Heyer Jr, Mills Bldg., San Francisco.

Flooring—Zenithom Co., Inc., 3221 20th St., San Francisco.

Electric Wiring—Strom & Smith, 1677 Valencia St., San Francisco.

Finish Hardware—Palmer Hardware Co., 551 Market St., San Francisco.

Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.

Rolling Shutters—Gunn Carle & Co., 44 Market St., San Francisco.

Will Work—Brass & Kuhn, 1917 Bryant St., San Francisco.

Ornamental Metal—California Artists Metal & Wire Co., 349 7th St., San Francisco.

Plumbing—Henry Ernst & Sons, 551 Hayes St., San Francisco.

Sault Doors—Hermann Safe Co., Howard and Main Sts., San Francisco.

To Be Done By Day's Work

BUILDING Cost, \$7000
ACRAMENTO, Sacramento Co., Cal.
 No. 1122 Fremont Way.

One-story frame and stucco building.

Owner and Builder—E. C. Pries, 1814 O St., Sacramento.

Architect—Not Given.

Contract Awarded.

TORRE Cost, \$100,000
AKLAND, Alameda Co., Cal.
 No. 1717 Broadway.

Two-story and basement reinforced concrete store (75x110 feet).

Owner—Mrs Phillip E. Bowles, Russ Bldg., San Francisco.

Architect—Douglas Stone, 1706 Broadway, Oakland.

Contractor—B. W. Littlefield, 337 17th St., Oakland.

Sub-Bids Being Taken.

ALTERATIONS Cost, \$20,000
SAN FRANCISCO. SW Scott and Chestnut Streets.

Alterations and additions to store building.

Owner—E. Stern, Premises.

Architect—S. Helman, 605 Market St., San Francisco.

Contractor—L. J. Cohn, 1 De Haro St., San Francisco.

Finish Hardware Contract Awarded.

NNEX Cost, \$1,500,000
SAN FRANCISCO. Bush Street near Montgomery St. (50x137-ft.)

Twenty-two-story class A reinforced concrete annex to building.

Owner—Mills Estate, Inc. (Curtis D. O'Sullivan, president), Mills Bldg.

Architect—Lewis P. Hobart, Crocker Bldg.

Contractor—Lindgren and Swinerton, Inc., 225 Bush St.

Will be known as Mills Tower.

Finish Hardware—E. M. Hundley, 662 Mission St.

Other awards reported Oct. 30, and n. 28.

THEATRES

Plans Being Prepared.

THEATRE Cost, \$100,000
HITTIER, Los Angeles Co., Cal.
 Greenleaf near Philadelphia St.

Class A reinforced concrete theatre (140x80 feet) to seat 1000.

Owner—A. Wardman, Whittier.

Architect—David S. Bushnell, Warner Bros. Theatre Bldg., Whittier.

Work is to start in 60 days. Mr

Wardman is also considering erecting a store and apartment building on the property adjoining the theatre.

Date Of Opening Bids Postponed Un-
 til Feb 24th, 11 A. M.

THEATRE Cost, \$500,000
ALAMEDA, Alameda Co., Cal.
 North Central Ave. W Park St.

Structural steel frame and reinforced concrete theatre (to seat 2200; 126 by 210 ft.)

Owner—Alameda Amusement Co.

Architect—Miller & Dueser, 650 Market St., San Francisco.

Separate bids will be taken on the structural steel, heating, ventilating and electric work.

WHARVES AND DOCKS

Sub-Contracts Awarded.

SUB-STRUCTURE Cost, \$121,844
OAKLAND, Alameda Co., Cal.
 Foot of Webster Street.

Concrete sub-structure for Inland Waters Terminal; 125 ft. on harbor side, 285 ft. on slip side; also concrete viaduct, 260 ft. by 33 ft.

Owner—City of Oakland (Port Commission), G. B. Hegardt, Secretary.

Architect—City of Oakland, Plans by Dept. of City Port Commission, Oakland Bank Bldg., Oakland.

Contractor—M. B. McGowan, 74 New Montgomery St., San Francisco.

Lumber—Loop Lumber Co., Broadway and Blanding St., Oakland.

Piling—McCormick Lumber Co., 1401 Army St., San Francisco.

Concrete Aggregates—Pacific Coast Aggregates Co., 85 Second St., San Francisco.

Cement—Cowell Lims & Cement Co., 2 Market St., San Francisco.

Reinforcing Steel—Soule Steel Co., Rialto Bldg., San Francisco.

Structural Steel Bids Opened.

TERMINAL, Alameda Co., Cal.
 Foot of Webster Street.

Structural steel frame for Inland Waters Terminal; 152 ft. on harbor side, 285 ft. on slip side; also concrete viaduct 260 ft. by 33 ft.

Owner—City of Oakland (Port Commission, G. B. Hegardt, secretary), Oakland Bank Bldg., Oakland.

Plans by Eng. Dept. of City Port Commission, Oakland Bank Bldg., Oakland.

Following is a complete list of the bids received:

California Steel Co., Hobart \$15,187

Bldg., San Francisco, 15,187

Herrick Iron Works, Oakland, 15,484

Judson Pacific Co., S. F., 15,875

Moore Drydock Co., Oakland, 15,889

Minneapolis Steel & Machinery Co., San Francisco, 16,156

Pacific Coast Eng. Co., Oakland, 16,700

Independent Iron Wks, Oakland 18,495

Bids held under advisement. Contract for the sub-structure has already been awarded to M. B. McGowan, Call Bldg., San Francisco, at \$121,844.

MISCELLANEOUS CONSTRUCTION

Contract Awarded.

STAGE DEPOT Cost, \$5—
VALLEJO, Solano Co., Cal.
 Sonoma and York Streets.

One-story frame and stucco stage depot.

Owner—Pacific Greyhound Lines, 9 74 1 31, rd. 303

Plas by Chas. Dawe, 881 Peralta St., Berkeley.

Contractor—Chas. Dawe, 881 Peralta St., Berkeley.

Building Permit Applied For.

UNDERTAKING PARLORS \$40,000
SAN FRANCISCO, Sacramento Street
 bet. Van Ness Ave. and Polk St.

Three-story frame and stucco undertaking establishment and apartments.

Owner—Jos. Hagan, 178 Sacramento Street.

Architect—Henry C. Smith and A. R. Williams, Humboldt Bank Bldg.

Contractor—Reavey & Spivock, Shell Oil Bldg.

Bids Opened—Held Under Advisement

POOL, ETC. Cost, \$—
LOS ALTOS, Santa Clara Co., Calif.
 Reinforced concrete swimming pool, frame bath house, tennis courts.

Owner—Milton Haas, Financial Center Bldg., San Francisco.

Architect—Farr & Ward, 63 Post St., San Francisco.

CORCORAN, Kings County, Cal.—
 American Legion will assist in the formation of an organization to finance the construction of a municipal swimming pool here.

Bids Opened.

MORTUARY Cost Approx., \$14,000
MOUNTAIN VIEW, Santa Clara Co., Cal.
 NE Yosemite and Castle Sts.

Two-story and basement frame and stucco mortuary (50x90 feet).

Owner—George Beardslee.

Plans by E. Reichel, 303 University Ave., Palo Alto.

Part tile and composition roofing, steel sash, hot air heating system, leaded glass and some plate glass.

Following is a complete list of bids received:

The Minton Co., Mt. View.....\$12,217

E. Anderson, Mt. View.....12,474

J. Calhage, Palo Alto.....12,500

N. Barrish, Mt. View.....12,877

P. Doyle, Mt. View.....12,695

W. P. Goodenough, Palo Alto.....12,902

C. Lindholm, Mt. View.....12,950

Osborne & Knight, Mt. View.....12,965

Ralph Vollmer, Palo Alto.....14,600

Contract will be awarded to low bidder within a few days.

Contract Awarded.

POOL, ETC. Cost, \$—
LOS ALTOS, Santa Clara Co., Cal.
 Reinforced concrete swimming pool, n frame bath house, tennis courts.

Owner—Milton Haas, Financial Center Bldg., San Francisco.

Architect—Farr & Ward, 63 Post St., San Francisco.

Contractor—William Martin, 666 Mission St., San Francisco.

MISCELLANEOUS SUPPLIES AND MATERIALS

OAKLAND, Cal.—Following bids received by City Clerk to furnish and install inter-departmental telephone sets for use of fire alarm system:

(a) 58 sets with ringer box; (b) 58 sets without ringer box.

Sierra Equipment Co., 361 9th St., San Francisco (a) \$1261.50; (b) \$907.70

Kellog Switchboard & Supply Co., San Francisco (a) \$1,296.70; (b) \$.....

Bids held under advisement.

OAKLAND, Cal.—Sierra Equipment Corp., 381 9th St., San Francisco, at \$907.70 awarded contract by city council to furnish 58 telephone head sets with induction coil type receivers and without ringer boxes.

MARTINEZ, Contra Costa Co., Cal.—Standard Oil Co. and Shell Oil Co. awarded contracts by county supervisors to furnish and deliver gasoline and oils during the year 1931.

Engineering News Section

BRIDGES

PALO ALTO, Santa Clara Co., Cal.—City council contemplates a bond issue to finance construction of a subway at the Embarcadero road railroad crossing. Preliminary surveys for the subway have been completed by J. F. Byxbee, Jr., city engineer. The Southern Pacific R. R. would share in the cost of construction.

SAN BERNARDINO COUNTY, Cal.—Until March 11, 2 P. M., bids will be received by State Highway Commission to construct a reinforced concrete girder bridge over the tracks of the Atchison, Topeka and Santa Fe Railway, about two miles east of Essex, consisting of one 48-ft. and four 34-ft. spans on concrete bents.

See call for bids under official proposal section in this issue.

PLACER CO., Cal.—Until March 11, 2 P. M., bids will be received by State Highway Commission to construct an upgrade crossing under the tracks of the Southern Pacific R. R. at New England Mills, consisting of two concrete abutments with wing walls and grading and surfacing approximately 1,000 lineal feet of roadway with bituminous treated crushed gravel or stone surfacing.

See call for bids under official proposal section in this issue.

MODESTO, Stanislaus Co., Calif.—Bids will be asked within two weeks by the county supervisors to construct a reinforced concrete bridge over the Stanislaus river at Oakdale; estimated cost \$92,000. George Macomber, county surveyor.

SAN FRANCISCO.—Until March 25, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to construct bascule bridge over the Islais Creek Channel in 3rd Street. Estimated cost, \$400,000. The structure will be a single leaf bascule bridge, 140 ft. span, 80 ft. overall width; 103 ft. between fenders with 6 foot sidewalks. Provision will be made for two street railway tracks and the Belt Line Railroad in addition to vehicular traffic.

Bids are wanted for:

(1) Furnishing and erecting a bascule bridge superstructure and approaches, including the dismantling of the existing bridge anchors and appurtenances, and the construction of all necessary foundations, piers, abutments and appurtenances, all in conformity with the plans and specifications.

(2) Furnishing and erecting a bascule bridge superstructure, including counterweight, machinery and appurtenances, all in conformity with the plans and specifications.

Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from the Bureau of Engineering, 3rd floor, City Hall.

OAKLAND, Cal.—As previously reported, bids will be received March 3, 10:30 A. M., by George E. Gross, county clerk, to construct reinforced concrete multiple box culvert at Station 520-00, known as the Alvarado-Centerville Road in Washington Road District. Project involves:

(1) 370 cu. yds. excavation of struc.;
(2) 305 cu. yds. Port. cement concrete in structure;

(3) 57,000 lbs. reinforcing steel;
(4) remove existing bridge.

Certified check 10% payable to clerk required with bid. Plans obtainable from clerk, Geo. A. Posey, county surveyor.

STOCKTON, San Joaquin Co., Cal.—Alfred Love, Stockton, at \$2,846 submitted low bid to county supervisors to construct two bridges on the Farmington-Eliota road in Road District No. 1. Complete list of bids follows:
Alfred Love\$2,846
Carl Nelson 2,865
Ulrich Const. Co. 2,997
Nelson Brothers 3,065
J. Hackman 3,080
Perlera & Reed 2,280
Clyde Wood 2,250
L. E. Toothacre 3,330
L. Ubel 3,245
Edw. R. Jamieson 3,500
Engstrum Const. Co. 5,500

STOCKTON, San Joaquin Co., Cal.—County supervisors reject bids to construct subway near Forrest Lake on the Lower Sacramento road in Rd. Dist. No. 2 under the tracks of the Southern Pacific Railroad. E. R. Stokes, 933 S Sierra Nevada Street, Stockton, submitted the low bid at \$12,370.25, and is declared to have claimed an error in compiling the bid. Specifications also failed to state the time of completion for the work. New bids will probably be asked at once. A complete list of the unit bids on this project were published in issue of February 13. Julius Manthey is county surveyor.

SONOMA COUNTY, Cal.—Following bids received Feb. 18 by State Highway Commission to construct timber bridge across Mark West Creek about 45 miles north of Santa Rosa, consisting of six 19-ft. spans and two 16-ft. 10-in. spans, surfaced with Portland cement concrete, on pile bents and grading and paving approaches with Portland cement concrete pave. Peter McHugh, 466 36th Ave., San Francisco\$19,266
Ralph Hunter, Sacramento 19,511
J. W. Hoops, Sacramento 21,287
Fred. J. Maurer, Eureka 22,225
A. T. Howe, Santa Rosa 22,743
Smith Bros. Co., Eureka 22,791
W. C. Cooley, Santa Rosa 23,455

LOS ANGELES, Cal.—Bids will be asked in March by the Board of Public Works to construct the Sixth St. Viaduct; estimated cost \$1,620,000. Will be reinforced concrete construction, girder span type, with structural steel river span. Total length 3600 feet. The bridge proper will be 46 ft. wide; at the approaches 56 ft. East of the river the bridge will be 60 to 68 ft. above the street level. Merrill Butler is chief bridge engineer for the city.

PORTLAND, Ore.—Until 10 A. M., Feb. 25, bids will be received by the U. S. Bureau of Public Roads, New Postoffice Bldg., Portland, Ore., to construct bridge over Sauk River, consisting of one 225 ft. through steel truss span; one 28-ft. and three 33-ft. log framed trestle spans together with a log framed trestle over logging railroad consisting of one 24-ft. and four 30-ft. spans and grading west approach on Suiattle River

Forest Development Road, located within or adjacent to Mount Baker National Forest, County of Skagit, State of Washington. The principal items are:

(1) 4500 cu. yds. excav. unclass. west approach;
(2) 460 cu. yds. excav. struc. unclass.;
(3) 100 cu. yds. screened surfacing;
(4) 49 M. ft. E. M. untreated timber;
(5) 0.4 M. ft. E. M. treated timber;
(6) one 28-ft log span;
(7) three 33-ft. log spans;
(8) four 30-ft. log spans;
(9) one 20-ft. log span;
(10) 900 ft logs in log bents;
(11) 180 cu. yds. class A concrete;
(12) 51 cu. yds. class B concrete;
(13) 42 cu. yds. class C concrete;
(14) 13,500 lbs. reinf. steel;
(15) 245,700 lbs. structural steel;
(16) one movable span.

Plans may be obtained from the district engineer, W. H. Lynch, at above address, upon deposit of \$10. Proposal guaranty, 5%.

STOCKTON, San Joaquin Co., Cal.—Alfred Love, Stockton, at \$2,846 awarded contract by county supervisors to construct two bridges on the Farmington-Eliota road in Road District No. 1.

PERSHING COUNTY, Nevada.—A previously reported, bids will be received February 25, 3 P. M., by State Highway Commission, S. C. Durkee engineer, Carson City, to construct concrete and steel grade separation structure including approaches over the Southern Pacific Railway near Woolsey in Pershing County. Project involves:

(1) 42,600 cu. yds. excav., unclass., h place;
(2) 420 cu. yds. structure excav.;
(3) 0.26 mile prepare subgrade and shoulders;
(4) 77,000 lbs. reinf. steel in place;
(5) 53,700 lbs. structural steel in place;
(6) 210 cu. yds. class D concrete;
(7) 240 cu. yds. class A concrete;
(8) 2056 lin. ft. standard timbe guard rail in place;
(9) 8 monuments;
(10) 900 cu. yds. load, haul and spread gravel;
(11) 0.29 mile finishing roadway.

Crushed rock or crushed gravel for surfacing roadway furnished by the state in stockpile opposite Stato "L" 42.

Certified check 5% required with bid. Plans obtainable from engineer on deposit of \$15, of which \$10 is returnable and on file in the office of the U. S. Bureau of Public Roads, 46 Market St., San Francisco.

SAN FRANCISCO.—Bids for all the major construction features of the Golden Gate Bridge will be called for during April and May and will be opened about June 1. Announcement of this plan was made by the directors of the Golden Gate Bridge and Highway District, Financial Centu Bldg., following their acceptance of the recommendations made by the chief engineer and the consulting board. The first call will include bids for the substructure for the main bridge, which will require three set

arate bids: (1) the two main piers; (2) the two anchorages; (3) a bid on the two items combined.

The steel superstructure will be included in item 2, on which three bids will be called; (1) the cables, suspenders and anchorage steel; (2) towers, stiffening trusses, floor system, steel approaches and all other steelwork between the anchorages; (3) a bid on the two items combined.

Item 3 will be the bids for the two approaches: (1) the Presidio road, including viaducts and accessory structures; (2) the Sausalito road, including viaducts and accessory structures.

All miscellaneous construction will be included in item 4, which will be let in six contracts: (1) paving of roadway floor of main structure and to the plaza; (2) the railing on the main structure; (3) lighting; (4) toll houses and plazas; (5) final painting coat; and (6) incidentals.

In order to allow ample time for coordination with the issues of the bonds, it is recommended that bids be asked for item 2 on April 1, item 3 on April 15 and item 3 on May 1. All of which will be opened on June 1. Bids will not be called for on item 4 until a later date, but an estimate of the cost of construction included in this item will be submitted on June 1st.

DREDGING, HARBOR WORKS & EXCAVATIONS

OAKLAND, Cal.—American Dredge Co., 255 California St., San Francisco, at (a) \$52 cu. yd. for dredging and disposing of material and (b) at \$4 each to remove pile studs from water, awarded contract by City Port Commission for dredging slips fronting the Inland Waterways Pier at the foot of Webster and Franklin Sts.

Facsimile Dredging Company, San Francisco, at (a) \$625, and (b) \$5, only other bidder.

STOCKTON, San Joaquin Co., Cal.—Following bids taken under advisement by U. S. Engineer Office, Sacramento, for dredging approximately 4,320,000 cubic yards of material in the Stockton 26-foot channel prism, from the mouth of Mormon Channel in the City of Stockton to the mouth of Burnst Cut-off, in the San Joaquin river:

Hydraulic Dredging Co., Oakland, (a) 17c; (b) 19c; (c) 175c.

Standard Dredging Co., Oakland (a) 1824c; (b) 1655c; (c) no bid.

S. F. Bridge Co., San Francisco (a) 185c; (b) 165c; (c) no bid.

Engineer's estimate, (a) 144c; (b) 115c; (c) 133c.

Taken under advisement.

OAKLAND, Alameda Co., Calif.—Jack Casson, Hayward, at \$399 submitted lowest bid to City Port Commission for disposition of excess dredge fill east of Warehouse B on the waterfront, involving 5,000 cu. yds. Complete list of bids follows:

Jack Casson	.....\$399
L. J. Immel	.....425
Faris Bros.	.....429
N. E. Lee	.....47
Ariss-Knapp Co.	.....59
J. Catucci	.....55
W. Forsythe	.....75

OAKLAND, Alameda Co., Calif.—Longview Dredging Co., Longview, Wash., at 3c per cu. yd. submitted only bid to City Port Commission, 424 Oakland Bank Bldg., for placing 660,000 cu. yds. dredging material tracks north of the Key Route Mole.

PEARL HARBOR, T. H.—Bids will be asked shortly by the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6239, for dredging at the

Naval Operating Base, Pearl Harbor. The work includes dredging and disposal of approximately 2,500,000 cubic yards of material. Applications for plans may be filed with the Commandant at the Mare Island Navy Yard and must be accompanied by a check or postal money order for \$20, payable to the Chief of the Bureau of Yards and Docks. Deposit is returnable.

MACHINERY AND EQUIPMENT

SAN LUIS OBISPO, Cal.—Until Feb. 25, 2 P. M., bids will be received by R. P. Hamilton, superintendent of equipment, Shop 5, State Highway Commission, San Luis Obispo, for the purchase of the following equipment no longer required:

CHC 1225, Standard 3½-ton Power Dump Truck.

CHC 1334 Standard 3½-ton Power Dump Truck.

CHC 111 Office Wagon.

CHC 3 Steam Engine, 7½-in. Vert. Single Cyl., 12-hp. P. F. M.

3 only 2-wheel Scrapers.

1 only Conical Sand Screen, with cast base and driving gears, length 6 ft., dia. 5x4-ft., 5-16-in. holes.

1 only 1-yard Drag Line Bucket, Saerman.

CHC 167 Office Wagon.

2 only 1-yd. Car Unloaders.

CHC 25 Gas Engine, Doak 30-hp.

Bidders may make offers for one or more items but must state price offered for each item. No lump sum bids will be considered.

All equipment may be inspected at the Division of Highways yards at San Luis Obispo, from 8:30 A. M. to 4:30 P. M. on any working day except Gas Engine, CHC 25, Doak 30-hp., which may be inspected at the Highways yard at Paso Robles, and Standard Truck, CHC 1225 and CHC 1334, which are located at the Little Spur Prison Camp and may be inspected by arrangement with the Superintendent.

UKIAH, Mendocino Co., Cal.—Until February 25, 8 P. M., bids will be received by Fred L. Bosworth, city clerk to furnish and deliver a street maintainer. Certified check 10% payable to city required with bid.

FRESNO, Fresno Co., Cal.—Until February 25, 2 P. M., bids will be received by State Highway Commission, 645 West Olive St., Fresno, for the following equipment no longer required:

6—36x6 Dayton steel wheels for Model 55 White truck.

6—40x12 Dayton steel wheels for Model 55 White truck.

10—36x6 Dayton steel wheels for Model AC Mack truck.

10—40x12 Dayton steel wheels for Model AC Mack truck.

CHC 332—2 ton Caterpillar tractor.

CHC 238—Austin 8-ft. Giant Grader

CHC 230—Austin 8-ft. Giant grader with Ireland scarifier.

CHC 233—Austin 8-ft. grader with scatcher.

CHC 273—Austin Standard 7-foot Leaning Wheel Grader.

CHC 297—Austin Giant 8-ft. grader.

CHC 304—Austin Standard 7-foot Leaning Wheel Grader.

1—Solar Blue Print Frame complete with plate glass 29-inx12-in., with felts.

Bidders may make offer for one or more items, but must state price offered for each. No lump sum bids will be considered. Bidders may inspect the above equipment any working day at the above address between the hours of 8:30 and 4:30 P. M.

SACRAMENTO, Cal.—Morrison Chevrolet Co. awarded contract by city council to furnish two coupe type autos for city health department at \$1269 less \$191 turn-in allowance on old car.

RENO, Nev.—Washoe County Commissioners, E. H. Beemer, county clerk, will ask bids shortly to furnish road building equipment, including a tractor, scraper, one passenger car, one light truck and three medium duty motor trucks.

SAN FRANCISCO.—Until February 24, 3 P. M., under Proposal No. 689, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, for the rental and operation of dirt moving equipment for improvements to be made from the following funds: Blvd. and Road Bonds, 1931; Public Parks and Squares Bonds, 1931; Playground Bonds, 1931. Specifications obtainable from above office.

DENVER, Colo.—Cyclops Iron Works, San Francisco, awarded the contract by the U. S. Bureau of Reclamation, Denver, at \$2300 for furnishing one traveling crane, capacity 20 tons, with motor operated hoist and hand operated bridge and tray.

WANTED

TO PURCHASE used Linn Tractor Truck. Lidlral-Wiley, Inc., 203 Columbia St., Seattle Washington.

AUBURN, Placer Co., Cal.—Miners Foundry, Nevada City, has been awarded contract by City at \$375 for furnishing one rock crusher, jaw type, 8x10-in. Other bids were: Harron, Rickard & McCone Co., \$755 and \$767; A. L. Young Machinery Co., \$845; Aillis Chalmers Mfg. Co., \$856; Joshua Hendy Iron Works, \$897; Kratz & McClelland Co., \$1687 and \$1945.

RAILROADS

BOULDER CITY, Nev.—R. Hardesty Mfg. Co., 3063 Blake St., Denver, awarded contract by U. S. Bureau of Reclamation, at \$19,807 for furnishing metal pipes and coupling bars for the Hoover Dam Railway project.

BOULDER CITY, Nev.—J. M. Gordon of Denver, Colo., awarded subcontract by the Lewis Construction Co., 300 S. Juanita St., Los Angeles, for constructing approximately 1600 lin. ft. of tunnel, 18x26-ft. section, in connection with the building of the Hoover Dam Railway, contract for which was awarded to the Lewis Construction Co. on Jan. 28 at \$455,509.50.

FIRE ALARM SYSTEMS

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—City Improvement Co., Berkeley, at \$1897 awarded contract by city council to furnish and install traffic signals and control equipment at two street intersections. Complete list of bids follows:

City Imp Co., Berkeley	.....\$1,897
General Elec. Co., S. F.	.....2,264
Gamewell Co., San Francisco	.....2,299

SAN MATEO, San Mateo Co., Cal.—Until March 2, bids will be received by city council to furnish and install traffic signal at Twelfth Ave. and El Camino Real. Specifications on file in office of clerk.

FIRE EQUIPMENT

RENO, Nevada. — City Councilman Chas. Nichols has introduced an ordinance in the city council providing for the purchase of a motor fire pumping engine.

SACRAMENTO, Cal. — Until February 25, 2 P. M., bids will be received by D. H. Greeley, superintendent of equipment, Shop No. 3, State Highway Commission, Sacramento, for the purchase of the following equipment no longer required:

- CHC 176 Caterpillar "30" Tractor
- CHC 142 150 Gallon Alco Asphalt Kettle.
- CHC 143 150 Gallon Alco Asphalt Kettle.
- CHC 45 Fairbanks Morse Pump Unit.
- CHC 255 Caterpillar 2-ton Tractor.

Bidders may take offers for one or more items but must state price offered for each item. No lump sum bids will be considered.

All equipment may be inspected at the Division of Highways yards at 152 34th Street, Sacramento, from 8:30 P. M. to 4:30 P. M. on any working days.

FAIRFIELD, Solano Co., Cal. — City council contemplates bond issue for \$7000 to finance purchase of motor fire engine.

RESERVOIRS AND DAMS

HEALDSBURG, Sonoma Co., Cal. — Until March 2, bids will be received by the city trustees to enlarge second reservoir in connection with municipal water system. Reservoir wall will be raised approximately 5 ft., adding approximately 50% additional storage capacity. Plans obtainable from City Engineer Archer B. Stuart.

HAWTHORNE, Nev. — Bids will be asked shortly by the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Spec. No. 6329, to construct Cat Creek Dam in connection with the Naval Ammunition Plant; estimated cost \$150,000. Will be 120-ft. high and about 250-ft. across top, impounding approx. 50,000,000 gallons of water. 30

PIPE LINES, WELLS, ETC.

BERKELEY, Alameda Co., Calif. — T. D. Courtright, 5098 Manila Ave., Oakland, at \$601.70 submitted low bid to city council to construct storm sewer in Contra Costa Ave., involving (a) 12-in. sewer, \$1.36; (b) 10-in. sewer, \$1.74; (c) box culvert, \$3.50; (d) catchbasin, \$60; (e) manhole, \$52. J. T. Clinch, 669 9th St., Oakland, only other bidder at \$74.50; (a) \$2.10; (b) \$2.10; (c) \$3; (d) \$60; (e) \$60. Taken under advisement.

RENO, Nevada — State officials are conferring with the Reno city council regarding the proposed connection of the Nevada state hospital sewage system with the Reno disposal plant.

COALINGA, Fresno Co., Cal. — Bunting Iron Works, Coalinga, at \$3.75 per 100 ft. awarded contract by city trustees to furnish 5000 ft. of 1-inch gas pipe. Complete list of bids follow: Hockey Pipe & Supply Co., \$3.73 Bunting Iron Works, 8.75 A. P. May, Inc., 8.75 Pauson & Co., 9.02

SEWERS AND SEWAGE DISPOSAL PLANTS

TULARE, Tulare Co., Calif. — City council rejects bids to furnish 3,500

ft. 18-in. hydraulic concrete pipe, and the city manager, R. M. Berryhill, instructed to purchase the pipe in the open market if lower prices can be secured, otherwise new bids will be asked. Rejection of the bids was prompted due to the fact that an outside concern was low bidder. The bids received follow:

- Folland Bros., Kingsburg, \$50
- R. Tonkers, Tulare, 625
- F. W. Elaine, Tulare, 625
- Tulare Cement Co., Tulare, .62
- Jourdan Conc. Pipe Co., Selma, .65

ANTIOCH, Contra Costa Co., Cal. — City council will start proceedings shortly for sewer and water improvements in the Wills Addition, property owners having petitioned for the work. Street paving will be undertaken with the completion of the sewer and water projects.

SAN RAFAEL, Marin Co., Cal. — Residents in the Homestead Addition, adjoining Mill Valley, contemplate formation of a sanitary district to vote bonds to finance construction of a sanitary sewer system.

LONG BEACH, Cal. — Plans for the North Long Beach Sanitary Sewer System are being prepared by H. Paterson, city engineer, and will be ready for the city council within two months. The proposed system will serve the city north of the Virginia Country Club. It will involve between 40 and 50 miles of sewer, including pipe from 8-in. to 30-in. in diameter, with pumping station, etc. Outfall will be into the Metropolitan Sewer System. All work will be done under the 1911 Act.

LAS VEGAS, Nev. — The Las Vegas city commission has under consideration a bond election to vote on an issue of \$150,000 for constructing a sewage disposal plant, with necessary mains. The laterals would be built by assessment, the estimate being about \$75 per lot.

SANTA MARIA, Santa Barbara Co., Cal. — Sewer extensions on North Broadway, as planned by City Engineer York Peterson, will involve pipe and equipment, as follows:

- 1500 ft. 12-in vit. pipe;
- 2250 ft. 10-in. vit. pipe;
- 470 ft. 8-in. vit. pipe;

Temporary collecting tank; Pumping Unit.

Work under Insp. Act 1911, with aid from the General Fund The estimated cost is \$14,300.

WATER WORKS

EL CENTRO, Imperial Co., Cal. — Until 7:30 P. M., Feb. 25, bids will be received by the El Centro city council

for 4000 ft. 4-in. class 150 bell and spigot cast iron pipe in 12 or 16-ft lengths. Bids are desired on foundry; or coast stock, f. o. b. El Centro Certified check or bond, 10%. J. C. Neale, city clerk.

MADERA, Madera Co., Cal. — Until March 2, 8 P. M., bids will be received by Jas. Wakefield, city clerk, for painting, minor adjustments and in incidental repairs to the municipal water tank with a capacity of 80,000-gals. Interior and exterior of tank to be painted; replace spider rods where necessary; 2 air vents, 2 sq. ft. each to be set in tank roof and covered with 18-gauge, 1/2-mesh galvanized wire screen; caulk all leaks, etc.

Alternate bids will be received for the job complete and separately for labor, for materials and for paints.

Certified check 10% required with bid. Specifications on file in office of city clerk.

SAN FRANCISCO — Until February 25, 2:30 p. m., bids will be received by S. J. Hester, secretary, Board of Public Works, for drilling 4 wells in 43rd avenue between Kirkham an Santiago streets and a test well i 46th avenue between Noriega and Ortega streets Estimated cost \$11,000. Bids are wanted for

- (a) price per foot if well is o paved street;
- (b) price per foot if well is in un paved street.

Certified check 10% payable to cler of the Board of Supervisors require with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall, on deposit of \$10, returnable.

ANTIOCH, Contra Costa Co., Cal. — City council will start proceeding shortly for sewer and water improvements in the Wills Addition, property owners having petitioned for the work. Street paving will be undertaken with the completion of the sewer and water projects.

OAKLAND, Calif. — Western Engineering Co., 58 Main St., San Francisco, at \$1717 submitted low bid to East Bay Municipal Utility District to furnish and install centrifuga pumps and synchronous motor-pumps units 5 and 6 for the El Cerro Booster Plant. Complete list of bids follows:

- Western Eng. Co., S. F., \$6.71
- Pacific Pump Works, S. F., 6.76
- Water Works Supply Co., S. F., 6.89
- United Iron Works, Oakland, 6.99
- Woodin & Little, S. F., 6.99
- Pelton Water Wheel Co., S. F., 7.93
- DeLaval Steam Turbine Co., San Francisco, 8.38
- Allis-Chalmers Mfg. Co., S. F., 9.20
- Byron Jackson Pump Co. Berkeley, 9.61
- Worthington Machinery Corp., San Francisco, 10.97

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.

Phone GARfield 4374

San Francisco

FAIRFIELD, Solano Co., Cal.—City council plans bond issue to finance improvements and extensions to water system involving installation of mains, \$14,000; 100,000-gallon water tank on 100 ft. tower, \$7600; drilling wells, \$10,000; deep well pump, \$1600; water treating plant, \$6000.

PLAYGROUNDS & PARKS

SACRAMENTO, Cal.—City Manager Jas. Denn in a report submitted to the city council estimates the cost of a subway under the Sacramento river at \$4,212,000. Preliminary drawings for the subway have been completed by Fred J. Klaus, city engineer.

LOS ANGELES, Cal.—Dana R. Tyson, city landscape architect, 225 City Hall Bldg., has prepared preliminary plans for work to be done under the \$5,000,000 unemployed relief bond issue to be voted on March 5. The work includes replacing old trees around the city and placing new trees in all city parks and new districts. The lake beds of Hollenbeck, Westlake and Lincoln parks will be partially filled in. It is also planned to build a roadway to the observatory and hall of science in Griffith Park and build new trails throughout Griffith and Elysian parks. The total amount to be spent is approximately \$1,600,000.

STREETS AND HIGHWAYS

February 13, 1931

BID CALL CANCELLED

PALO ALTO, Santa Clara Co., Cal.—City council cancels call for bids scheduled to be opened Feb. 9 and adopts Resolution of Intention No. 962 providing for the improvement of the same streets with the exception of one-half block which has been eliminated from the program. Streets to be improved are Palo Alto Ave., Hale, Pope and Dana Sts., Forest Court, Addison and Harker Aves., Webster St., Embarcadero Road, Lane "B" East, Santa Rita Ave., Sherman Ave., Princeton, Oberlin and Harvard Sts., involving construction of vit. sewer mains and connections, brick manholes, c. i. water mains and galvanized iron water pipe connections, fire hydrants, gas mains, concrete storm sewer pipe, cem. conc. pavement, sidewalks, etc. 1911 Act. Hearing Feb. 25, 7:30 P. M. E. L. Beach, city clerk. J. F. Buxbee, Jr., city engineer.

SAN BERNARDINO COUNTY, Cal.—Following bids received February 11 by State Highway Commission to grade and surface with oil-treated crushed gravel or stone, 29.2 miles between 1.5 miles east of Essex and 1 mile southeast of Kinefelter, involving:

- (1) 227,600 cu. yds. roadway excavation without class (Location A);
- (2) 132,000 cu. yds. roadway excavation without class (Location B);
- (3) 490,000 sta. yds. overhaul;
- (4) 106,000 cu. yds. imported borrow;
- (5) 87,906 cu. yds. ditch and channel excavation;
- (6) 42,800 cu. yds. pit run gravel sub-base;
- (7) 9170 cu. yds. structural excavation;
- (8) 80,000 tons oil-treated crushed gravel or stone surfacing;
- (9) 1900 cu. yds. crushed gravel or stone screenings (seal coat);
- (10) 1400 bbls. fuel oil (seal coat);
- (11) 346 lin. ft. 18-in. corr. metal pipe;
- (12) 2032 lin. ft. 24-in. corr. metal pipe;

- (13) 2888 lin. ft. 36-in. corr. metal pipe;
 - (14) 648 lin. ft. 48-in. corr. metal pipe;
 - (15) 8700 M. gals. water applied to sub-base;
 - (16) 29,420 lin. ft. furnishing treated piles;
 - (17) 1399 each, driving piles;
 - (18) 588 M. ft. B. M. redwood timber, dense select all-heart structural grade;
 - (19) 387 M. ft. E. M. redwood timber, select all-heart structural grade;
 - (20) 1543 stns. finishing roadway;
 - (21) 480 each, monuments, complete, in place
- State will furnish corrugated metal pipe.
- H. W. Rohl Co., 4351 Alhambra Ave., Los Angeles \$496,246
- George Herz & Co., San Bernardino 521,325
- J. F. Knapp, Oakland 554,073
- Jahn & Dressl, Los Angeles 557,412
- Merritt Chapman & Scott 559,828
- A. Teichert & Son, Sacramento 567,324
- Isbel Construction Co., Carson City, Nevada 598,734
- Hemstreet & Bell, Marysville 606,687
- New Mexico Const. Co., Albuquerque, New Mexico 644,693
- Allied Contracting Co., Omaha 692,067
- Bids held under advisement.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, completes specifications to improve Ingerson Avenue between Ingalls and Hawes streets; estimated cost \$12,300. Project involves:

- (1) 3,180 cu. yds. excavation;
- (2) 1,108 cu. yds. embankment;
- (3) 1,217 lin ft unarmored concrete curb;
- (4) 475 lin. ft. 6-in. V. C. P. side sewer;
- (5) 10,965sq. ft. 1-course concrete sidewalk;
- (6) 2 brick catchbasins;
- (7) 50 lin. ft. 10-in. V. C. P. culvert;
- (8) 6.75 cu. yds. Class "B" concrete in stairs;
- (9) 212 lbs. bar reinforcing steel;
- (10) 21,997 sq. ft. asphalt concrete pavement, 2-in. asphalt concrete wearing surface with 6-in. Class "E" concrete base.

NOTE—City is liable for a portion of the grading.

FOWLDER, Fresno Co., Cal.—Until March 3, 1 P. M., bids will be received by Geo. Weseman, city clerk, to construct corrugated culvert; conc. curb, walks, and driveways in portions of Eighth St. Certified check 10% payable to Town required with bid. Plans on file in office of clerk.

SAN BERNARDINO COUNTY, Cal.—H. W. Rohl Co., 4351 Alhambra Ave., Los Angeles, at \$496,246 awarded contract by State Highway Commission to grade and surface with oil-treated crushed gravel or stone, 29.2 miles between 1.5 miles east of Essex and 1 mile southeast of Kinefelter.

OAKLAND, Cal.—L. T. Immel, 1631 Evelyn St., Berkeley, awarded contract at \$19,716 by City Council to improve Johnston Drive from Estates Drive southeasterly, involving: 6,246 cu. yds. excavation, \$50; 1,888 lin. ft. concrete curb, \$45; 29,780 sq. ft. concrete pave, \$20; 4554 sq. ft. cement sidewalks, \$15. Complete list of unit bids received on this project published in issue of February 6.

PORTLAND, Ore.—E. L. Gates, Kamela, Ore., at \$152,624 using metal pipe and \$155,485 using concrete pipe, submitted low bid to U. S. Bureau of Public Roads to grade 5.847 miles of the Willamette Forest Highway from the east end of Black Bear Canyon to a section near Oakridge. Award of contract has been recommended to Washington.

KERN COUNTY, Cal.—Until March 11, 2 P. M., bids will be received by State Highway Commission for grading and the shoulders surfaced with bituminous treated crushed gravel or stone, 29.8 miles between Grape Vine Station and Bakersfield.

See call for bids under official proposal section in this issue.

IMPERIAL COUNTY, Cal.—Until March 11, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland cement concrete, 6.9 miles between Holtville and the East High Line Canal.

See call for bids under official proposal section in this issue.

ORANGE COUNTY, Cal.—Until March 11, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland Cement concrete, 0.9 mile at Galivan Overhead Crossing.

See call for bids under official proposal section in this issue.

NEVADA CITY, Nevada Co., Cal.—County supervisors declares intention to improve County Road between Grass Valley and Colfax involving regrading, resurfacing, and eliminating bad curves, Acq. and Imp. Dist. No. 1 of Nevada County. Work under Acq. and Imp. Act 1925. Hearing March 4, J. F. O'Connor, county surveyor. R. N. McCormack, county clerk.

DO NOT RISK AN EXPERIMENT

SPECIFY -- USE

Timpie Hydrated Lime

STRONG—PURE—PLASTIC

Ten Years of Uniformly Satisfactory Experience in High

Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

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SANTA BARBARA, Calif.—City council declares intention (1140) to improve Canyon Perdido St., bet. Santa Barbara St. and Milpas St., and portions of Garden St., Laguna St., Vine St., and other streets, involving grading, concrete pavement, concrete base, c. u. b. gutter, cross-gutters, walk, cement concrete landings, wooden hand-rail, reinforced concrete landings, wooden hand-rail, reinforced concrete drain pipe, vitrified sewer, vitrified house connections, etc. 1911 Act. Protests, March 5. George D. Geib, city clerk. E. B. Brown, city engineer.

VENTURA COUNTY, Calif.—Until March 10, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading Section A of Route 76, Maricopa-Ventura National Forest Highway in Santa Barbara National Forest, 6.246 miles in length. Project involves:

- (1) 53.9 acres clearing;
- (2) 504,000 cu. yds. excav. unclass.;
- (3) 4088 cu. yds. excav. struc.;
- (4) 671,000 sta. yds. overhaul;
- (5) 6.11 miles finish earth graded rd.;
- (6) 403 lin. ft. tunnel excav., unlined section;
- (7) 100 lin. ft. tunnel excav., lined section;
- (8) 100 lin. ft. Cl. "A" concrete tunnel lining;
- (9) 250 M.E.M. bridge timber in place;
- (10) 1868 cu. yds. class "A" conc.;
- (11) 173 cu. yds. class "B" conc.;
- (12) 1855 s. yds. asph. plank wearing surface;
- (13) 170,700 lbs. reinforcing steel;
- (14) 1531 cu. yds. cement rubble masonry;
- (15) 3318 lin. ft. corr. metal pipe in place;
- (16) 222,750 lbs. structural steel;
- (17) 1299 cu. yds. hand-laid riprap in place;
- (18) 50 ea., R/W monuments in place. Plans obtainable from engineer on deposit of \$10, returnable, check for which must be made payable to Federal Reserve Bank of San Francisco.

STOCKTON, San Joaquin Co., Cal.—Periera and Reed, Stockton, at \$25,788 submitted low bid to county supervisors to improve 4.7 miles of Farmington-Bellota Road from Upper Copperopolis Road to the Linden Road, involving:

- (1) 18,500 cu. yds. grading;
- (2) 11,500 tons base course;
- (3) 1060 tons crushed rock;
- (4) 470 tons rock chips;
- (5) 385 tons pea gravel;
- (6) 252 bbls. fuel oil;
- (7) 112 tons asphaltic oil;
- (8) 19 installing pipes.

Complete list of bids follows:

Periera & Reed	\$25,788
Lilly, Willard & Biasotti	26,551
L. Morsing	29,088
Larsen Bros.	29,973
George French	30,910
Clyde Wood	32,904
J. R. Reeves	33,736
Finnell Company	33,917

LOS ANGELES, Cal.—City calls election for March 5 to vote bonds of \$3,000,000 to finance street improvements with a view to lessening unemployment.

SAN JOSE, Santa Clara Co., Cal.—As previously reported bids will be received March 16, 11 A. M., by Henry A. Pfister, county clerk, to improve Congress Springs Road in Supervisor District No. 5, from Saratoga to the Summit where it joins the Skyline Blvd. Project involves 516,000 sq. ft. oil macadam pavement. Plans obtainable from County Surveyor Robert Chandler.

STOCKTON, San Joaquin Co., Cal.—Periera and Reed, Stockton, at \$25,788 awarded contract by county supervisors to improve 4.7 miles of Farmington-Bellota Road from Upper Copperopolis Road to the Linden Road, involving: 18,500 cu. yds. grading; 11,500 tons base course; 1060 tons crushed rock; 470 tons rock chips; 385 tons pea gravel; 252 bbls. fuel oil; 112 tons asphaltic oil; 19 installing pipes.

SANTA MARIA, Santa Barbara Co., Cal.—Approximate quantities for the improvement of East Cook and other streets for which plans are being completed by City Engineer York Peterson, City Hall, are:

- (1) 276,000 sq. ft. 4-in. asph. concrete pavement;
- (2) 100 cu. ft. curb;
- (3) 9150 sq. ft. cement concrete walk.

Act of 1911.

BAKERSFIELD, Kern Co., Cal.—Kern County supervisors vote to call a special election to vote bonds of \$2,500,000 to finance construction of a road building program. About \$1,125,000 will be used for immediate paving of old roads, about \$900,000 for work on commercial highways, and approximately \$460,000 for building up a recreational highway system. There are three separate highway systems in the county: (1) State highway, which comprises 365 miles and over which the county has no control; (2) Countywide highway, 323 miles, which are supported by both city and county funds and under which organization the proposed bond issue will be affected; (3) regular county system, supported entirely by taxes outside of cities, and by gas and other forms of taxation.

OAKLAND, Cal.—Until March 5, 12 noon, bids will be received by Frank C. Merritt, city clerk, to improve Masonic Ave. bet. Florence and Moraga Aves., and portions of Florence and Proctor Ave., Any Drive and Moraga Ave. adjacent to Masonic Ave., involving:

- (1) 11,673 cu. yds. excavation;
- (2) 5,526 lin. ft. concrete curb;
- (3) 11,078 sq. ft. concrete gutter;
- (4) 80,531 sq. ft. concrete penetration macadam pavement;
- (5) 13,597 sq. ft. concrete cement sidewalk;
- (6) 30 lin. ft. 8x29-in. corr. iron and cement culvert;
- (7) 10 lin. ft. 8x24-in. do.
- (8) 74 lin. ft. 12-in. reinf. concrete pipe conduit;
- (9) 336 lin. ft. 15-in. do.;
- (10) 55 lin. ft. 12-in. extra strength reinf. conc. pipe conduit;
- (11) 206 lin. ft. 15-in. do.;
- (12) storm water inlet (2-inch opening);
- (13) 6 storm water inlets (34-in. opening);
- (14) 4 concrete handholes with cast iron covers;
- (15) 1 manhole;
- (16) 59 lin. ft. wooden culvert

Est. cost, \$35,815. Street Imp. Act 1913. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Prickstad, city engineer.

SAN JOSE, Santa Clara Co., Cal.—As previously reported bids will be received March 16, 11 A. M., by Henry A. Pfister, county clerk, to improve Cadwallader Ave. in Supervisor District No. 2. Project involves 218,750 sq. ft. oil macadam pavement. Plans obtainable from Robert Chandler, county surveyor.

ALAMEDA, Alameda Co., Calif.—Hutchinson Co., 4030 Hollis St., Oakland, at \$8,283.75 awarded contract by city council (96) to improve Third St. bet. Pacific Ave. and Maple St., involving grading; concrete curbs, gutters, walks; corrugated iron culverts; 6-in. oil macadam pavement. Following is a complete list of the bids:

Hutchinson Company	\$8,283.75
L. J. Immel	8,666
Healy-Moore Company	8,862
L. L. Page	9,769

COLUSA COUNTY, Cal.—Following bids received February 18 by C. H. Whitmore, district engineer, State Highway Commission, Sacramento, to surface with pit run gravel, 1.5 miles bet. Maxwell and the north boundary.

Harms Bros., Galt	\$ 9,715
D. McDonald, Sacramento	11,049
A. Peichert & Son, Sacto.	12,446

SAN JOAQUIN COUNTY, Cal.—Following bids received Feb. 18 by State Highway Commission to grade and pave with Portland cement concrete, 4.7 miles between Stockton and one-half mile north of Houston School: John & Bressi, Lane Mortgage Bldg., Los Angeles, \$249,598

H. A. Hahn, San Francisco	250,000
Basich Bros., Turrence	256,137
C. W. Wood, Stockton	260,058
Frederickson & Watson and Frederickson Bros., Oakland	264,700
M. C. Hall, Potteryville	264,802
Clark & Henery Co., S. F.	274,521

REDWOOD CITY, San Mateo Co., Cal.—City council has started proceedings to extend Main street to connect with the Bayshore Highway, involving paving, curbs and walks; the work to be financed by property owners at a cost \$85,000. E. A. Rollson is city manager.

SAN JOSE, Santa Clara Co., Cal.—As previously reported, bids will be received March 16, 11:00 A. M., by Harry A. Pfister, county clerk, to improve San Jose and Almaden road in Supervisor District No. 4. Project involves 50,275 sq. ft. oil macadam pavement. Plans obtainable from Robert Chandler, county surveyor.

SANTA CRUZ, Santa Cruz Co., Cal.—City council has started proceedings to grade and pave the extension of Vine St., between Locust and Church Sts. Roy Fowler, city engineer.

BUSINESS OPPORTUNITIES

R. A. Peckham, Kane Manufacturing Co., Kane, Penn. Manufacturers of venetian blinds and rustless insect screens are seeking representative for Central and Northern California.

Robert K. Hunter, Luckenbach Steamship Co., 201 California St., San Francisco, represents an Eastern manufacturer of cotton twine, cotton mops and mop heads, wishes to secure local representation.

Lamb, 146 Summer Street, Room 41, Boston, Mass., desires to secure a representative in this region for a small high-class machine tool specialty.

Bernard Warshower, Reliance Service Bureau, 293 Broadway, New York City, operating a licensed and bonded investigating service wishes to contact firms in this vicinity in need of this type of service.

Contracts Awarded Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Am't.
171	Meyer	Owner	5000
172	Same	Owner	4000
173	Meyer	Owner	4000
174	Meyer	Owner	5900
175	Same	Owner	4000
176	Rumann	Owner	7000
177	McCarthy	Owner	7500
178	Meyer	Owner	4000
179	Kleas	Owner	5000
180	Lee	Siggs	5000
181	Coolish	Fetz	400
182	Galbraith	Owner	2500
183	Ivanetich	Kambic	4300
184	Ejorjman	Owner	8000
185	Zellerbach	Jacks	1000
186	Civaroli	Forsman	3500
187	Krieger	Owner	2000
188	Nelsen	Owner	3000
189	Nelson	Owner	7500
191	Truscon	Owner	7500
192	Amatore	Owner	12000
193	Disston	Owner	4000
194	Isaacson	Owner	7000
195	Farell	Tapio	1000
196	Bradshaw	Cahill	115640
197	Moll	Owner	3000
198	Hunkin	Jensen	15000
199	Chinenilli	Jenkins	1600
200	Gilpin	Owner	4000
201	Stalin	Owner	5000
202	Strand	Owner	70000
203	Baptist	Johnson	22000
204	Hogan	Owner	40000
205	Street	Splvock	53915
206	Struthers	Conway	7000
207	Berendsen	Owner	3000
208	Nelsen	Owner	3500
209	Arnott	Owner	8000
10	Mahoney	Coburn	2900
11	Leash	Owner	4500
12	Castle	Herzig	5500
13	Hammond	Owner	8000
14	Strand	Owner	70000

DWELLING
 171) S JUANITA 151 E Lansdale;
 one - story and basement frame
 dwelling.
 Owner and Builder—Meyer Bros., 277
 Portola Drive.
 Plans by D. T. Burks. \$5000

DWELLING
 172) W ROCKDALE 32 N Omar;
 one - story and basement frame
 dwelling.
 Owner and Builder—Meyer Bros., 277
 Portola Drive.
 Plans by D. T. Burks. \$4000

DWELLING
 173) S ROCKDALE 32 W Reposa;
 one - story and basement frame
 dwelling.
 Owner and Builder—Meyer Bros., 277
 Portola Drive.
 Plans by D. T. Burks. \$4000

DWELLING
 174) SW ROCKDALE and Reposa;
 one - story and basement frame
 dwelling.
 Owner and Builder—Meyer Bros., 277
 Portola Drive.
 Plans by D. T. Burks. \$5000

DWELLING
 175) W FERESITA 70 S Evelyn;
 one - story and basement frame
 dwelling.
 Owner and Builder—Meyer Bros., 277
 Portola Drive.
 Plans by D. T. Burks. \$4600

FLATS
 176) MERCE ST. 50 S Beach; two -
 story and basement frame (two)
 flats.
 Owner and Builder—W. Rumann, 281
 Mallorca Way.
 Architect—Not Given. \$7000

DWELLINGS
 177) E 26th AVE. 200 S Rivera; two
 one - story and basement frame
 dwellings.
 Owner and Builder—J. McCarthy, 1342
 Funston Ave.
 Plans by Owner. each \$3750

DWELLING
 178) S JAUNITA 88 E Lansdale;
 one - story and basement frame
 dwelling.
 Owner and Builder—Meyer Bros., 277
 Portola Drive.
 Plans by D. T. Burks. \$4000

DWELLING
 179) LUNADO WAY and Lunado
 Court; one - story and basement
 frame dwelling.
 Owner and Builder—Julia Kleas, 4115
 Lincoln Way.
 Architect—Not Given. \$5000

DWELLING
 180) S HAYES 85 E Divisadero;
 two - story and basement frame
 dwelling.
 Owner—M. J. Lee, 1300 Hayes St.
 Plans by Contractor.
 Contractor—A. R. Siggs, 2 1/2 14 19th
 Avenue. \$5000

DWELLING
 181) E ELMIRA 75 N Silver Ave.;
 one - story and basement frame
 dwelling.
 Owner—R. Coolish, 565 Waller St.
 Plans by Contractor.
 Contractor—P. Fetz, 2277 Cayuga St.
 \$4000

DWELLING
 182) E WISCONSIN 125 S 22nd St.;
 one - story and basement frame
 dwelling.
 Owner—A. Gallraith, 827 Wisconsin.
 Architect—Not Given. \$2500

DWELLING
 183) N MORAGA 120 W 21st Ave.;
 one - story and basement frame
 dwelling.
 Owner—J. E. Ivanetich, 2116 18th St.
 Architect—Not Given.
 Contractor—J. Kambic, 500 San Bruno
 Avenue. \$4300

DWELLINGS
 184) N SILLIMAN 120 W Harvard;
 two 1-story and basement frame
 dwellings.

Owner and Builder—V. Ejorjman, 2579
 Mission St.
 Architect—Not Given. \$4000 each

ALTERATIONS
 185) NE SANSOME and Union Sts.;
 alterations to shore and underpin
 wall.
 Owner—Mr. Zellerbach, care contrac-
 tor.
 Architect—Not Given. \$1000

DWELLING
 186) W ANDERSEN 170 S Cortland;
 one - story and basement frame
 dwelling.
 Owner—A. Civaroli, 43 Anderson St.
 Plans by M. Stahl, care owner.
 Contractor—E. Forsman, 4 30 Ellis-
 worth. \$3500

REPAIRS
 187) 2040 BALBOA ST.; repair fire
 damage.
 Owner—H. Krieger, 2040 Balboa St.
 Architect—Not Given. \$2000

DWELLING
 188) N WILSON 125 W San Jose
 Ave.; 1-story and basement frame
 dwelling.
 Owner—J. Nelsen, 555 Moscow St.
 Plans by Owner. \$2000

DWELLING
 189) W 19th AVE. 100 S Sloat Blvd.;
 two - story and basement frame
 dwelling.
 Owner and Builder—Fernando Nelson
 & Sons, 2 West Portal Ave.
 Architect—Not Given. \$7500

ALTERATIONS
 190) NE CALIFORNIA AND DAVIS.
 Alterations to offices.
 Owner—Libby, McNeal & Libby, Mer-
 chants Exchange Bldg., San Fran-
 cisco.
 Plans by Mullen Mfg. Co.
 Contractor—Mullen Mfg. Co., 50
 Rausch St., San Francisco. \$2500

DECK
 191) CARROLL AND NEWHALL
 Sts. Steel trussed and steel roofed
 deck to cover bar yard.
 Owner—Truscon Steel Co., 342 Call
 Bldg., San Francisco.
 Architect—Owner. \$7500

APARTMENTS
 192) NE TWENTY - SIXTH AND
 Hampshire. Two-story and base-
 ment frame (5) apartments.
 Owner—F. Amatore, 192-A Hamp-
 shire St., San Francisco.
 Architect—Not Given. \$12,000

DWELLING
 193) N IDORA 322 E Garcia; one -
 story and basement frame dwell-
 ing.
 Owner and Builder—A. D. Disston,
 Hearst Building.
 Architect—Clausen and Am and e s.
 Hearst Bldg. \$4000

DWELLINGS
 194) W 16th AVE. 70 N Rivera; two
 1-story and basement frame dwell-
 ings.
 Owner and Builder—F. Isaacson, 624
 Joost Avenue.
 Plans by B. K. Dobkowitz. each \$3500

CAPITAL CITY TILE COMPANY

J. C. PALEN
Manager

914 Seventh Street
Sacramento - - - - California

ALTERATIONS
(195) 77 NORTON ST.; alterations to dwelling.
Owners—Mr. and Mrs. A. Farell, 77 Norton Street.
Architect—Not Given.
Contractor—A. Tapio, 153 Majestic Avenue. \$1000

WAREHOUSE
(196) NW KEARNY and Francisco; four-story and basement reinforced concrete warehouse.
Owner—Brashaw Realty Co., 206 Sansome St.
Architect—L. H. Nishkian, 525 Market Street.
Contractor—Cahill Bros., 206 Sansome St. \$115,649

DWELLING
(197) SW ARLETA 129 NW Alpha; one-story and basement frame dwelling.
Owner—Sigurd Moll, 719 Sargent St.
Plans by Owner. \$3000

RESIDENCE
(198) E SAN LORENZO 165 S Portola Drive; two-story and basement frame residence.
Owner—Mrs. S. J. Hunkin, % architect.
Architect—H. H. Gutterson, 526 Powell Street.
Contractor—G. P. W. Jensen, 320 Market Street. \$15,600

ALTERATIONS
(199) 1901 PALOU; alterations to move dwelling on lot.
Owner—M. and G. Chimenilli, 1901 Palou Ave.
Architect—Not Given.
Contractor—Jenkins and Gross, 3433 Market St. \$1600

DWELLING
(200) W 17th AVE. 150 S Moraga; one-story and basement frame dwelling.
Owner—T. Gilpin, 265 San Leandro Way.
Architect—Not Given. \$4000

DWELLING
(201) S VICENTE 52 W 15th Ave.; one-story and basement frame dwelling.
Owner and Builder—G. O. Stalin, 2020 Taraval St.
Architect—Not Given. \$5000

APARTMENTS
(202) N PACIFIC 120 E Gough; six-story class C (24) apts. with basement.
Owner—T. B. Strand, 668 Funston Avenue.
Architect—Irvine & Ebbets, Call Bldg. \$70,000

AUTO SALES BLDG.
(203) SE GEARY and 21st Ave.; 2-story class C auto sales building.
Owner—Twenty-first Avenue Baptist Church.
Architect—F. W. Quandt, 2800 Filbert Street.
Contractor—Joel Johnson, 666 Mission Street. \$22,000

APARTMENTS
(204) N SACRAMENTO ST. 100 W Polk; three-story and basement frame (10) apts.
Owner—J. Hagan, 1712 Sacramento.
Architect—Smith & Williams, Humholdt Bldg. \$40,000

AUTO SALES BLDG.
(205) E MISSION ST. 134 N Ney St.; two-story and basement class C auto sales building.
Owner—W. E. Street & Co., 4434 Mission St.
Architect—Irvine & Ebbets, Call Bldg
Contractor—W. Spivock, Hohart Bldg. \$53,915

DWELLINGS
(206) NW CAYUGA 125 SW Danton; two 1-story and basement frame dwellings.

Owner—M. T. Struthers, 105 Lake St.
Architect—Not Given.
Contractor—G. S. Conway, 2733 Mission St. each \$3500

DWELLING
(207) N MORAGA 82 E 23rd Ave.; 1-story and basement frame dwelling.
Owner—J. Berendsen, 1631 21st Ave.
Architect—Not Given. \$3600

DWELLING
(208) S LINCOLN 82 E 41st Ave.; one-story and basement frame dwelling.
Owner and Builder—G. S. Neilsen, 150 Tenth Avenue. \$3500

DWELLINGS
(209) E 16th AVE. 154 N Santiago; two 1-story and basement frame dwellings.
Owner and Builder—J. A. Arnott, 633 Taraval St.
Plans by Owner. each \$4000

REPAIRS
(210) 1815 BROADWAY; repair fire damage to apartments.
Owner—Mrs. Mahoney, 1815 Broadway.
Architect—Not Given.
Contractor—I. W. Coburn, 2048 Market Street. \$2000

DWELLING
(211) W 32nd AVE. 225 S Judah St.; one-story and basement frame dwelling.
Owner and Builder—G. Leask, 197 Parker Avenue.
Architect—Not Given. \$4500

DWELLINGS
(212) W SANTA ANA 40 N Ocean; one-story and basement frame dwelling.
Owner—Castle Bldg. Co., 830 Market Street.
Plans by G. H. Vore, 2057 87th Ave., Oakland.
Contractor—A. J. Herzig, 2300 Ocean Avenue. \$5500

DWELLINGS
(213) S ULLOA 32 E 18th Ave.; two one-story and basement frame dwellings.
Owner—L. B. Hammond, 520 Vicente.
Architect—Not Given. each \$4000

APARTMENTS
(214) N PACIFIC AVE. 75 E Gough; six-story and basement class C (24) apartments.
Owner—T. B. Strand, 668 Funston Avenue.
Architect—Irvine & Ebbets, Call Bldg. \$70,000

Completed and accepted..... 900
Usual 35 days..... 900
TOTAL COST, \$3600
Bond, none. Limit, 90 days. Forfeit none. Plans and specifications filed.

DWELLING
(34) LOT 3 BLK 2959 Sub. 4, Miraloma Park. All work for one-story frame dwelling.
Owner—The McCarthy Co., 46 Kearny St., San Francisco.
Architect—Not Given.
Contractor—Meyer Bros., 727 Portola Drive, San Francisco.
Filed Feb. 11, '31. Dated Feb. 9, '31
Side and roof sheathing on..... \$97
Brown coated..... 97
Completed and accepted..... 97
Usual 35 days..... 97
TOTAL COST, \$390
Bond, none. Limit, 90 days. Forfeit none. Plans and specifications filed.

DWELLING
(35) LOT I BLK 2947-A SUB. 7, Miraloma Park. All work for one-story frame dwelling.
Owner—The McCarthy Co., 46 Kearny St., San Francisco.
Architect—Not Given.
Contractor—Meyer Bros., 727 Portola Drive, San Francisco.
Filed Feb. 11, '31. Dated Feb. 9, '31
Side and roof sheathing on..... \$110
Brown coated..... 110
Completed and accepted..... 110
Usual 35 days..... 110
TOTAL COST, \$440
Bond, none. Limit, 90 days. Forfeit none. Plans and specifications filed.

DWELLING
(36) LOT 10 BLK 2956-A SUB. Miraloma Park. All work for story frame dwelling.
Owner—The McCarthy Co., 46 Kearny St., San Francisco.
Architect—Not Given.
Contractor—Meyer Bros., 727 Portola Drive, San Francisco.
Filed Feb. 11, '31. Dated Feb. 9, '31
Side and roof sheathing on..... \$9
Brown coated..... 9
Completed and accepted..... 9
Usual 35 days..... 9
TOTAL COST, \$38
Bond, none. Limit, 90 days. Forfeit none. Plans and specifications filed.

STATION
(37) NE POLK AND BROADWAY
All work for gasoline and service station.
Owner—Associated Oil Co., 79 N. Montgomery St., San Francisco.
Architect—Not Given.
Contractor—Reavey & Spivock, Sh Oil Bldg., San Francisco.
Filed Feb. 11, '31. Dated Feb. 5, '31
10 days after completed..... 75
Usual 35 days..... 25
TOTAL COST, \$40
Bond, \$4000. Surety, United States Guaranty Co. Limit, 30 days. Forfeit, none. Plans and specifications filed.

BOILERS AND TANK
(38) NO. 154 ELLIS ST. All work for two gas fired steam boilers and hot water storage tank for State Hotel.
Owner—Charles S. Moser, Phelan Bldg., San Francisco.
Architect—Not Given.
Contractor—Knittle Bros., 224 Filbert St., San Francisco.
Filed Feb. 11, '31. Dated Jan. 28, '31.
TOTAL COST, \$24.
Bond, limit, forfeit, none. Specifications only filed.

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
32	McCarthy	Meyer	3600
34	Same	Same	3900
35	Same	Same	4400
36	Same	Same	3600
37	Associated	Reavey	4075
38	Moser	Knittle	2164
39	Hunkin	Jensen	20142
40	S. P.	Dowd	2354

DWELLING
(33) LOT 48 BLK 2947-A Subdivision No. 7, Miraloma Park. All work for one-story frame dwelling.
Owner—The McCarthy Co., 46 Kearny St., San Francisco.
Architect—Not Given.
Contractor—Meyer Bros., 727 Portola Drive, San Francisco.
Filed Feb. 11, '31. Dated Feb. 9, '31.
Side and roof sheathing on..... \$900
Brown coated..... 900

DWELLING
 (29) LOT 5 BLK 23 St. Francis Wood. All work for two-story and basement frame dwelling. Owner—Mrs. S. J. Hunkin, 1153 Bush St., San Francisco.
 Architect—H. H. Gutterston, 526 Powell St., San Francisco.
 Contractor—G. P. W. Jensen, 320 Market St., San Francisco.
 Filed Feb. 13, '31. Dated Feb. 11, '31. On list of each month 75%
 Usual 35 days 25%
TOTAL COST, \$20,142
 Bond, none Limit, 100 days. Perfeit, none. Plans and specifications filed.

ELECTRIC FIXTURES
 (40) BAKER and Fell Sts.; furnishing and installing electric fixtures in general hospital.
 Owner—Southern Pacific Company.
 Architect—Coffey and Rist.
 Engineer—Dowd-Scid Elec. Co., 2118 Mission St.
 Filed Feb. 13, '31. Dated Feb. 7, '31. Monthly 75%
 Usual 35 days 25%
TOTAL COST, \$2354
 Bond, \$2354. Sureties, U. S. Guarantee Co. Limit? \$45. Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded Accepted
 Feb 10, 1931—LOT 40 PLK 2957-A map Sub No 3 Miraloma Park. Meyer Bros to whom it may concern. February 7, 1931
 Feb 10, 1931—E 30th AVE 175 N Ulloa St N 25 x E 120. R L Hanlon to A M Hardy. February 9, 1931
 Feb 10, 1931—E RETIRO WAY 50 N Beach St N 25 x E 57-50. D S Kavanaugh to whom it may concern. February 10, 1931
 Feb 10, 1931—BAKER and Fell Sts. Southern Pacific Co General Hospital. Southern Pacific Company to Ocean Shore Iron Works. February 6, 1931
 Feb 10, 1931—E 34th AVE 175 South Judah 25x120. Carl E and Emil E Erickson to whom it may concern. February 10, 1931
 Feb 10, 1931—BAKER and Fell Sts. Southern Pacific Company General Hospital. Southern Pacific Co to Frank J Klimm Co. February 6, 1931
 Feb 11, 1931—NW HALE AND Merrill 50 on N Hale by 75 on W Merrill. Thomas Johnsons to whom it may concern. Feb. 6, 1931
 Feb 11, 1931—NW DOLORES and Jersey. John and Nellie De Bella to Louis Pastorini. Feb. 10, 1931
 Feb 11, 1931—N TWENTY-SECOND 75 E Chattanooga E 25xN 100 ME 89. Jennie A Johnson to G J Elkington & Sons. Feb. 11, 1931
 Feb 11, 1931—LOTS 44 AND 45 Blk 2947-A Map Sub 7, Miraloma Park. The McCarthy Co to Meyer Bros. Feb. 5, 1931
 Feb 11, 1931—ALL PTN LOT 12 Blk 5535 Map St Mary's Park NW Benton Ave SW 4 from NE line said lot 12 SW 25 NW 89-451 NE 49-41 SE 93-34. A R Johnson to whom it may concern. February 4, 1931
 Feb 11, 1931—E 22nd AVE 210 N Judah N 50 x 120. H Christensen to whom it may concern. February 11, 1931
 Feb 11, 1931—NE BRAZIL AVE 50 SE London SE 25 x NE 100. A Borelli to whom it may concern. February 10, 1931
 Feb 16, 1931—W BANKS ST 200 N Jarvis Ave N 25 x W 70. Phillip Sandilippe also known as Phillip San Filippo to whom it may concern. February 14, 1931

Feb 16, 1931—SW CASA WAY 101-350 NW Retiro Way N 55 deg 50 min 14 sec W 32-35 S 80 deg 50 min 46 sec W 97-945 SE 11-775 S 80 deg 59 min 18 sec E 30-104 NE 76-567. Ralph and Elza Blass to E L Stoneson. February 7, 1931
 Feb 16, 1931—N REVERE AVE 125 W line. Peter Plunel to Thomas R Sharman. February 14, 1931
 Feb 16, 1931—PPTY BOUNDED by 18th, Carolina and by Western Pacific R R Co tracks. Kaiser Paving Co to Louis Cain. Jan. 17, 1931
 Feb 16, 1931—N GATEWAY AVE 245 W Pierce W 39 x N 155-5 1/2. Berthe M Lent to Ed Zinkand & Son. February 10, 1931
 Feb 16, 1931—W 24th AVE 25 North Wawona N 25 x W 90. Castle Bldgs Co to Henry Horn. February 10, 1931
 Feb 16, 1931—COMG AT PT bearing N 71 deg 30 min W 114 from pt on W Schwerin dist S 296-50 from pt inter SW Sunnydale Ave and Schwerin N 71 deg 30 min W 110 S 47-5 E 110 N 47-5. D and D Delucchi to whom it may concern. February 25, 1931
 Feb 16, 1931—E DIVISADERO ST 50 S Oak S 25 x E 106. George Chemin to Wiseman & Co. January 24, 1931

Feb 14, 1931—LOT 40 BLK 2914 Laguna Honda Park Addn. J V Campbell to whom it may concern. February 25, 1931
 Feb 13, 1931—CARROLL AVENUE. Southern Pacific Co to Eaton and Smith. February 5, 1931
 Feb 13, 1931—E 34th AVE 275 East Judah St. E E and C E Erickson to whom it may concern. February 13, 1931

Feb 13, 1931—LOTS 11 and 12 BLK 2958 map Sub No 4 Miraloma Pk. Meyer Bros to whom it may concern. February 11, 1931
 Feb 13, 1931—NW 19th AVE AND Kirkham 25 on 19th Ave and 95 on Kirkham. John E McCarthy to whom it may concern. Feb 10, 1931
 Feb 13, 1931—S KIRKHAM 85 W 18th Ave W 25 x S 100. Michael D and Mary A Hardiman to whom it may concern. February 11, 1931
 Feb 13, 1931—NW 36th and Alabama Nos 1394-96 Alabama St. Walter J Schmidt to Schmidt Bros. February 11, 1931

Feb 13, 1931—W GATES 27. 1931
 Feb 13, 1931—W GATES 27. 1931
 Feb 13, 1931—W GATES 49-54 N Ogdan Ave N 25 x W 76. A R Sanchez to whom it may concern. February 10, 1931
 Feb 13, 1931—W GATES 49-54 N Ogdan Ave N 25-64 S 25-04 E 23-4 E 46-3. A R Sanchez to whom it may concern. February 10, 1931

Feb 13, 1931—SE CAYUGA AVE and SW line lot 149 Spring Valley Hd Ne 25 SE 85-186 SW 25-062 NW 85-500. L Besio to whom it may concern. February 11, 1931
 Feb 17, 1931—SW CALIFORNIA & Octavia W 80 x S 137-6. Herman D Hogrefe to whom it may concern. February 17, 1931
 Feb 17, 1931—W LYON 35 N Clay N 100-4 1/2 x W 127-6 S 35-4 1/2 E 27-6 S 65 E 110. George Lievre to H O Lindeman. February 16, 1931

Feb 17, 1931—SW NORTHGATE DR and Monterey Blvd Lot 1 Blk 3273 M Davidson. Mayor S Lathrop Ave 51-43 E Tunnel Ave Lot 2 Blk 24 Crocker Bay Shore Tract; S Lathrop Ave 26-93 E Tunnel Ave Lot 3 Blk 24 Crocker Bay Shore Tract. A M Samuelson to whom it may concern. February 19, 1931
 Feb 17, 1931—W 32nd AVE 425 S Rivera S 25 x W 120. D S Kavanaugh to whom it may concern. February 17, 1931
 Feb 17, 1931—LOT 35 Land Devey Service Unit No 1 McClatchy Realty Co and Robertson Govan Co. February 14, 1931

LIENS FILED

San Francisco County

Feb 11, 1931—LOTS 20, 21, 22, 23 Blk 3015 West Portal Park. Actua Electric Co. \$215; W A Hoff, \$201, vs C L and H L Huffman, C A and C Morris, V E Haley \$123.53
 Feb 10, 1931—W SHRADER 125 S Carl S 25 x W 100. E J Neville vs Harvey, Jessie and Clyde Ward \$153.53
 Feb 17, 1931—E CAPP 165 N 19th N 25 x E 122-6. Layrite Floor Corp vs A Lee, G L Peterson, S and A Lachtman \$67.71
 Feb 17, 1931—LOT 4 BLK 35 R. R. Ave Hd Assn. C E Reinhart & Co vs W F Burnell or Bernel \$281.80
 Feb 16, 1931—N LOMBARD 141 W Octavia W 50 x N 137-6. C Chappin vs A Raven \$265.36
 Feb 14, 1931—LOT 3 BLK 1273, Assessor's Map. J Callaghan vs C M, E S, H C and J E Ward \$184.50
 Feb 13, 1931 NE 10th St and Minna NW 80 x NE 100. Le Roy Olson Co vs M Diemey, E Rolkin and T Petrakis \$120

RELEASE OF LIENS

San Francisco County

Recorded Amount
 Feb 16, 1931—N BERNARD 107 W Taylor W 20 x N 80. G Bianco to Rose A and Thos R Puchen \$50

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
165	Netherby	Owner	5500
166	Fergnegen	Owner	1500
167	Howe	Owner	5400
171	Spiro	Higley	1000
172	Oakland	McGowan	121845
173	Mosby	Matheyer	8000
173	Dennen	Owner	1800
174	Bank of America	Owner	3000
175	Justice	Owner	3500
176	McCabe	Owner	2700
177	Connolly	Easterly	4700
177	San Leandro	Whited	9600
179	Williams	Cone	2500
180	Broadhead	Owner	4000
181	Stoddard	Tranmal	1200
182	Barrett	Owner	1700
183	Grubb	Owner	4000
184	Brophy	Dashiell	3500

RESIDENCE
 (165) No. 118 MAGNOLIA AVE., **PIEDMONT.** Two-story 5-room frame residence and garage.
 Owner—W. A. Netherby, 3553 Lyman Road, Oakland
 Architect—Not Given. \$5500

ALTERATIONS
 (166) No. 2035 CHANNING WAY, **BERKELEY.** Alterations.
 Owner—P. Fergnegen, 522 7th St., Oakland.
 Architect—Not Given. \$1500

RESIDENCE
 (167) **HOLLYWOOD BLVD. AND W Edgewood Ave., OAKLAND.** Two-story 7-room residence and garage.
 Owner and Contractor—E. D. Howe, 2620 Stuart St., Berkeley.
 Architect—Not Given. \$5400

168 Brown Converse 6000
 169 Willer Kraus 4000
 170 Feasey Owner 18000

RESIDENCE
 (168) No. 2520 MARIN AVE., **BERKELEY.** Two-story 7-room 1-1/2-family frame residence.

Owner—H. H. Brown, 1120 24th St., Richmond.
Architect—Not Given.
Contractor—E. R. Converse, 1088 53rd St., Oakland. \$6000

ALTERATIONS
(169) NO. 832 SHATTUCK AVE., BERKELEY. Alterations.
Owner—E. V. Willer.
Architect—Not Given.
Contractor—W. J. Kraus, 1310 Marina Ave., Berkeley. \$4000

RESIDENCE
(170) N BROADWAY TERRACE E Country Club Drive., OAKLAND. Two-story and basement residence
Owner—A. H. Feasey, 150 Miraloma Drive, Oakland.
Architect—Masten & Hurd, Post St. and Grant Ave., San Francisco.
Contractor—A. H. Feasey, 150 Miraloma Drive, Oakland. \$18,000

ALTERATIONS
(171) NO. 2277 SHATTUCK AVE., BERKELEY. Alterations.
Owner—Spiro & Spiro, 195 25th St., Oakland.
Architect—Not Given.
Contractor—Rigner Tile Co, Harrison St., Oakland. \$1000

PIER
(172) FOOT OF WEBSTER STREET OAKLAND; concrete pier.
Owner—City of Oakland, Oakland Bank Bldg.
Architect—Port of Oakland, Oakland Bank Bldg.
Contractor—M. E. McGowan, 34 New Montgomery St., San Francisco. \$121,845

DWELLING
(173) N MELDON AVE. 300-350 W Birdsall Ave., OAKLAND; two 2-story 6-room dwellings.
Owner—C. Mosby, Los Angeles.
Architect—Not Given.
Contractor—L. B. Matheyer, 3178 Birdsall Ave., Oakland. \$4000 each

WAREHOUSE
(173) NO. 1926 EVERETT ST., ALAMEDA. One-story 2-room frame and galvanized iron warehouse.
Owner—Y. M. Dennen, 2512 Blanding Ave., Alameda.
Architect—Not Given. \$1800

ALTERATIONS
(174) NO. 2411 SANTA CLARA AVE., ALAMEDA. Alterations and concrete work for elevator.
Owner—Bank of America, National Trust & Savings Association, 625 Market St., San Francisco.
Architect—Not Given. \$3000

DWELLING
(175) NO. 2711 CLAY ST., ALAMEDA One-story 5-room frame and stucco dwelling.
Owner—N. F. Justice, 973 Pearl St., Alameda.
Architect—Not Given. \$3500

DWELLING
(176) E MORCOM AVE. 165 N Camden, OAKLAND; one-story five-room dwelling.
Owner and Builder—J. D. McCabe, 3457 Mt. Blvd., Oakland.
Architect—Not Given. \$2700

DWELLING
(177) 124 AGNES ST., OAKLAND; one-story 5-room dwelling.
Owner—J. J. Connolly, 416 45th St., Oakland.
Architect—Not Given.
Contractor—George W. Easterly, 5675 Oak Grove Ave., Oakland. \$4700

HEALTH CENTER
(178) 576 CALLAN AVE., SAN LEANDRO; one-story health center (15 rooms).
Owner—City of San Leandro.
Architect—Jas. Narbett.
Contractor—W. H. Whited, 125 Sunnyside Drive, San Leandro. \$9600

ALTERATIONS
(179) 1712 BROADWAY, OAKLAND; alterations.
Owner—Andrew Williams.
Architect—Not Given.
Contractor—Wilbur Cone, 1744 Broadway, Oakland. \$2500

RESIDENCE
(180) NO. 573 THE ALAMEDA, BERKELEY. Two-story 6-room 1 family frame residence.
Owner—J. Broadhead, 1232 Glen Ave., Berkeley.
Architect—Not Given. \$4000

ALTERATIONS
(181) NO. 144 BONITA AVE., PIEDMONT. Alterations.
Owner—Elgin Stoddard, 144 Bonita Ave., Piedmont.
Architect—Not Given.
Contractor—Enoch Trammel, 483 Crescent St., Oakland. \$1200

ALTERATIONS
(182) 1627 TELEGRAPH AVE., OAKLAND; alterations.
Owner and Builder—Barrett & Hill, 918 Harrison St., San Francisco.
Architect—Not Given. \$1700

DWELLING
(183) W BREED AVE. 100 N Durant Ave., OAKLAND; 1 1/2-story five-room dwelling.
Owner and Builder—Jas. B. Grubb, 10515 Breed Ave., Oakland.
Architect—Not Given. \$4000

DWELLING
(184) E 68th AVE. 200 N Foothill Blvd., OAKLAND; one-story five-room dwelling.
Owner—F. Brophy.
Architect—Not Given.
Contractor—E. L. Dashiell, 3549 California Ave., Oakland. \$3500

BUILDING CONTRACTS

Table with columns: No., Owner, Contractor, Amt. Includes entries for Encinal-Kitchen, Encinal-Littlefield, Encinal-Terminals, and various other building contracts with dates and amounts.

Usual 35 days.....Balance
TOTAL COST, \$53,250
Bond, \$53,250. Sureties, Standard Accident Ins. Co. Limit, 110 days. Plan and Spec. filed.

COMPLETION NOTICES

ALAMEDA COUNTY
Recorded Accepte
Feb. 11, 1931—NO. 4212 TERRACE St., Oakland. Sophie Jorgensen to J Cisero & H Malby. Feb. 10, 1931
Feb. 10, 1931—LOT 13 BLK 11, Oakridge Claremont, Berkeley. Sidney K Smith to S M Shapiro..... February 9, 1932
Feb. 17, 1931—LOT 18 BLK 2626-21, Northbrae, Albany M E Coulter to whom it may concern..... February 6, 1932
Feb. 17, 1931—961 GLEN DRIVE, San Leandro. Bert Walters to whom it may concern..... Feb. 16, 1932
Feb. 16, 1931—LOT 55 and Ptn. Lot 56 Blk M, Estadillo Estates, San Leandro. Charles E and Emilie Fox to whom it may concern..... Feb. 11, 1932
Feb. 16, 1931—LOTS 15, 16 AND 17 Blk 1051, Collins Subdivision, Emeryville. J H and Glencora Cary Reese to whom it may concern..... Feb. 14, 1932
Feb. 13, 1931—NE 11th and Harrison Sts., Oakland. Firestone Tire and Rubber Co to C H Thrams..... February 13, 1932
Feb. 13, 1931—CAMPUS of the University of California, Berkeley. The Regents of the University of California to E H Sheldon & Co..... February 9, 1932
Feb. 14, 1931—N SANTA CLARA AVE 118 ft W of Peru St, etc, Alameda. Christopher C Howard to Walter Younger..... February 10, 1932
Feb. 14, 1931—SW SHATTUCK AVE and Kittredge St, Berkeley. City of Berkeley to M G West Co; R Brandline & Co (two completions)..... February 3, 1932
Feb. 14, 1931—3668 DORIS AVE., Oakland. Dr. A M Dinsmore to Jensen & Pedersen..... Oct. 24, 1931
Feb. 13, 1931—LOT 7, Broadmoor Park, San Leandro. A W Henry M D to Derry & Derry..... Feb. 10, 1932
Feb. 13, 1931—SW SANTA CLARA AVE and Vernon St, Alameda. W J Bullock to E Dudley De Velbiss..... February 10, 1932
Feb. 13, 1931—ALAMEDA and Oakland. Southern Pacific Company to Hutchinson Co..... Feb. 9, 1932
Feb. 11, 1931—LOT 32 and ptn Lot 3 Bk E, map of the Revised Claremont Ave Tract, Oakland. A Jensen to whom it may concern..... February 7, 1932
Feb. 11, 1931—FIRST and Webster, 13th & Webster, Oakland. Southern Pacific Co to Hutchinson Co..... February 9, 1932
Feb. 11, 1931—INTERSECTION NW Coolidge Ave and NE Lynde St, Oakland. R C Miller to whom it may concern..... Feb. 10, 1932
Feb. 11, 1931—LOT G, BLK 2970 Hardy Tract, Berkeley. Plo Tuecliarone to Guy Taylor..... Feb. 7, 1932

LIENS FILED

Table with columns: Recorded, Amount. Includes entries for SE LINE TENTH AVE 120 ft NE of E 22nd St, Oakland; J M Dale, \$4,935.05; Smith Lumber Co of Oakland, \$2,922.13; Umberto and Margaret Cavallo..... Feb. 16, 1931—SE LINE TENTH AVE 120 NE of E-22nd St, Oakland. McGrath Steel Co vs Umberto Cavallo and Margaret Cavallo..... \$13

Feb. 16, 1931—SE TENTH AVENUE 120 ft. N.E. of E-22nd St., Oakland East Bay Glass Co vs Umberto and Margaret Cavallo\$2633.49
 Feb. 16, 1931—SE TENTH AVE 120 ft. N.E. of E-22nd St., Oakland. Hildebrand Planing Mill vs Umberto and Margaret Cavallo.....\$1456.94
 Feb. 15, 1931—LOT 16 BLK 22, Map No. 8 of Regents Park, Albany Berkeley Building Materials Co vs Paul C Groce\$312.18
 Feb. 15, 1931—N THIRTY-FOURTH St. at inter with line dividing land formerly owned by A. C. Brown from Central Co Ltd, Oakland. H A Driscoll Co vs E C Gilbert and Bryan Milton\$1408
 Feb. 16, 1931—LOT 17 BLK 4, Thousand Oaks, Berkeley. M Henry vs Earl and Fraye Converse\$85
 Feb. 16, 1931—E THIRTEENTH AVE 100 E Grove, Oakland. Scott Butler Co vs I and F Cudderlin and J M Smith\$159.29
 Feb. 15, 1931—SE TENTH AVE 120 N.E. of 22nd St., Oakland. Halpern Sheet Metal, \$544; F P Hogan, \$608.75 vs Umberto and Margaret Cavallo
 Feb. 14, 1931—604 34th St., Oakland. Melrose Bldg Materials Co vs E C Gilbert, D F Driscoll and\$1185.94

RELEASE OF LIENS

Alameda County

Recorded Amount
 Feb. 6, 1931—E NINTH AVE 125 S Kirkham S 25 x E 120. Star Concrete Co to F T Hicks and C A. Brown\$285
 Feb. 6, 1931—W 35th AVE 200 South Geary W 120 x S 25. R Hinton to A and B Jacobson.....\$285
 Feb. 16, 1931—E TWENTY-THIRD Ave 30 10 N E-26th St., Oakland. Sterling Lumber Co to Robert M Sutherland, H Sutherland, C A Baender and State Roofing Co.....\$67.16
 Feb. 10, 1931—1121 SUNNYHILLS Road, Oakland. Sunset Lumber Co to J A Sinclair, Jr.....\$213.97
 Feb. 10, 1931—SW DURANT AVE and Fulton St, Berkeley. John L Minchin Jr to Delphine Ferrer Doyle\$151.80

BUILDING CONTRACTS

SAN MATEO COUNTY

RESIDENCE
 LOT 34 BLK 30, Easton. All work for one-story frame and stucco residence
 Owner — A. R. Woodman et al, 1144 Bernal St., Burlingame.
 Architect—Not Given.
 Contractor—C. W. Carlson, 1416 Cortez St., Burlingame.
 Filed Feb. 10, '31. Dated Feb. 7, '31.
 Frame up\$1750
 Brown coated 1750
 Completed 1750
 Usual 35 days 1750
 TOTAL COST, \$7000
 Bond, \$7000. Surety, Fidelity & Casualty Co. of New York. Limit, forfeit, none. Plans and specifications filed.

Feb. 10, 1931—PART LOTS 5, 6 & 7 BLK 1, Central Park. Lyle F Bourquin to whom it may concern Feb. 10, 1931
 Feb. 10, 1931—PART LOT 7 BLK 1 Woodside Acres. Gambastista Casarotto to whom it may concern..... Feb. 7, 1931
 Feb. 10, 1931—LOTS 22 AND 23 BLK 4, Central Park. David Houle to whom it may concern. Feb. 9, 1931
 Feb. 11, 1931—LOT 36, Senic Heights San Mateo. Carl Eder to C E Magne..... Feb. 9, 1931
 Feb. 11, 1931—PART LOT 135, San Mateo Park. Agnes K Findley to whom it may concern. Feb. 11, 1931
 Feb. 11, 1931—LOT 3 BLK 3-A, Aragon. Meyer Bros to whom it may concern..... Feb. 5, 1931
 Feb. 11, 1931—LOT 11 BLK 12, Lomita Park. Irvin C Barshaw to whom it may concern. Feb. 11, 1931
 Feb. 13, 1931—LOT 2 BLK 16, Stanford Park. Reginald M Olsson-Saffer to C S Baker.....Feb. 12, 1931
 Feb. 13, 1931—LOT 7 BLK 6, Burlingame Shore Land Co. George B Childs to whom it may concern Feb. 13, 1931
 Feb. 14, 1931—LOT 4 BLK 11, Edgewood Park, San Mateo. Jesse R Reedkin to M C Vander Kamp Feb. 6, 1931
 Feb. 14, 1931—LOT 9 BLK 13, Bayview Heights. F C Nelson to whom it may concern. Feb. 12, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded Amount
 Feb. 9, 1931—1274 ACRES LAND near San Carlos. J R Sutton alias vs Amalia Thal\$1091
 Feb. 9, 1931—LOT 34 BLK 60, Belmonti. E W Magruder vs W J Killop et al\$22.85
 Feb. 9, 1931—PART LOT 21 BLK 5, Baywood San Mateo Feed & Fuel Co vs Edward Covosso \$140.33
 Feb. 10, 1931—PART LOT 4 BLK 21 Palo Alto Park. Grey Thoring Lumber Co vs Ida F Miller.....\$93.40
 Feb. 10, 1931—LOT 3 BLK 16, South Park. Adolph Bowman et al vs S R Milne et al\$143
 Feb. 10, 1931—LOT 34 BLK 60, Belmonti. John G Smith vs Davenport Realty Co.....\$93.50
 Feb. 11, 1931—LOTS 47 AND 48 Blk 11, San Bruno. Henry Cowell Lime & Cement Co vs Mildred A Whitelock\$367.73
 Feb. 11, 1931—LOT 2 BLK 5, Redwood Highlands. G Adolphson vs Bernard J McCarron et al\$416
 Feb. 12, 1931—LOT 3 BLK 16, Lomita Park. Al Vigert vs L R Milne et al\$40
 Feb. 13, 1931—2.95 ACRE LAND near Redwood City. Truscon Steel Co vs Amanda Thal\$110.04
 Feb. 14, 1931—LOT 34 BLK 60, Belmonti. San Carlos Feed & Fuel Co vs Davenport Realty Co.....\$528.01

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded Amount
 Feb. 10, 1931—LOTS 20 & 21 BLK 4, San Bruno. Keystone Lumber Co to whom it may concern \$507.22
 Feb. 10, 1931—LOTS 20 & 21 BLK 4, San Bruno. H W Larsen to whom it may concern\$

BUILDING PERMITS

REWOOD CITY

ALTER dwelling, \$1200; No. 163 Hudson St., Redwood City; owner, Rose Pack, Premises; contractor, Lindgren Bros.
 DWELLING, frame, 5-rooms, bath and garage, \$4000; No. 259 Hudson St., Redwood City; owner, R. L. O'Connor; contractor, J. G. Lawson.
 DWELLING, frame, 4-rooms, bath and garage, \$1000; No. 307 Beech St., Redwood City; owner, Z Demma; contractor, F. Morino.
 DWELLING, frame, 6-room, bath and garage, \$5000; No. 112 Hilltop Drive, Redwood City; owner, Walter T. Noble; contractor, L. F. Bourquin, 128 Iris St., Redwood City.

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$6000; No. 333 Portola St., Palo Alto; owner, W. J. Causey.
 DWELLING, rustic, \$2000; 141 Coleridge Ave., Palo Alto; owner, Aug. Eckland.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted
 Jan. 22, 1931—SE 10 FT. LOT 5 and all Lot 6 Blk 71, Naglee Park Tr No. 3 with exceptions, San Jose. Anthony Teixeira et al to whom it may concern Jan. 20, 1931
 Jan. 22, 1931—LOT 11 Beyerley Tract, San Jose. J B Beyerley to whom it may concern Jan. 22, 1931
 Feb. 2, 1931—SE CALIFORNIA ST 315.40 NE Main SE 11xSW 46 Part Lot 47, Paul Survey, Palo Alto. W R Bartley; R W Stenhit; Ralph W Evans and John S Griffin to whom it may concern.....Jan. 30, 1931
 Feb. 3, 1931—LOTS 17 AND 18 BLK 38, College Terrace, Palo Alto. Milton L Rogers to whom it may concern Jan. 31, 1931
 Feb. 3, 1931—LOT 33 BLK 3, Lincoln Gates, San Jose. Grover S Carpenter et al to whom it may concern Jan. 30, 1931
 Feb. 4, 1931—LOT 26 BLK 2, Restwood Park No. 2, San Jose. Ernest Lorentz to whom it may concern Feb. 3, 1931

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
 Feb. 9, 1931—LOT 18 BLK 4, Burlingame. Olive Coakley to whom it may concern Feb. 9, 1931
 Feb. 9, 1931—LOT 95, Capuchino Holman E Winfrey to whom it may concern Feb. 6, 1931

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San Francisco

Feb. 4, 1931—LOT 12 BLK 6, Seale Addition No. 2, Palo Alto, Walter F and Hazel Lyman Nickel to whom it may concern. Jan. 30, 1931
 Feb. 4, 1931—LOT 51, Colonial Manor, San Jose. Lucy H Mitchell to whom it may concern. Feb. 2, 1931
 Feb. 6, 1931—LOT 17 BLK 6, North Glen Residence Park. F E Leedom et al to whom it may concern. Feb. 4, 1931
 Feb. 9, 1931—LOT 30 BLK 93, Manlius Subd., Palo Alto. J P and Minnie Evelyn Fate to whom it may concern. Feb. 7, 1931
 Feb. 9, 1931—NO. 642 S-SEVENTH-ST., San Jose. Frank Herrmann to whom it may concern. Feb. 9, 1931

LIENS FILED

SANTA CLARA COUNTY

Recorded	Amount
Feb. 6, 1931—PT. SW ¼ OF SEC 21 Twp 6 S R 2 W, San Jose. The Minton Co vs Elizabeth H Cecil.....	\$524.91
Feb. 6, 1931—LOT 19 BLK 11, Fair-oaks Addition, Sunnyvale. Sunnyvale Supply Co vs Foster Bros.	\$197.41
Feb. 7, 1931—LOT 2 BLK 141 Embarradero Oaks Sub, Palo Alto J G Kilgore vs E M Lenzen.....	\$31

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded	Amount
Feb. 6, 1931—SW DANA 50 NW Mt. View Ave., Mountain View. The Minton Co to William Dirksen	
Feb. 6, 1931—LAURELWOOD FARM Subd with exceptions. H M Keister to Metropolitan Realty Co	\$730.15
Feb. 5, 1931—S BRACE AVE 396.99 Ft. W line bet. lands of Early and Eastwood. Henry Covell Lime & Cement Co to A Silveira	

BUILDING PERMITS

STOCKTON

REMODEL store, \$4500; No. 326 E-Main St., Stockton; owner, Sutherland Estate; contractor, O. A. Chain, Bank of America Bldg., Stockton.
 INDUSTRIAL building, \$3000; No. 230 E-Lafayette St., Stockton; owner, A. T. Atwood; contractor, O. A. Chain, Bank of America Bldg., Stockton.
 DWELLING, \$2500; No. 215 Tuxedo Court, Stockton; owner, Vincent J. McPhee.

COMPLETION NOTICES

MARIN COUNTY

Recorded	Accepted
Feb. 4, 1931—LOT 9, San Anselmo. Harold E Squire and wife to whom it may concern. Feb. 4, 1931	
Feb. 4, 1931—MORNINGSIDE CT., San Anselmo. Herschel Bond to Fred Mendenhall. Feb. 2, 1931	
Feb. 4, 1931—LOT 8, San Anselmo. Harold E Squire and wife to whom it may concern. Feb. 4, 1931	
Feb. 5, 1931—SAN RAFAEL. Associated Oil Co to Ben C Gerwick Inc. Jan. 29, 1931	

LIENS FILED

MARIN COUNTY

Recorded	Accepted
Feb. 7, 1931—BAYSIDE ACRES, near San Rafael. San Rafael Mill & Lumber Co vs Anne S Stubbs and Nellie Duncan. \$121.79	

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded	Accepted
Feb. 6, 1931—LOT 12 BLK 1, Austin Tract Addn to Martinez. M W Jnost to Chas Wiess. Jan. 21, 1931	
Feb. 6, 1931—LOT 86 and E portion Lot 88, Oak Springs Unit No. 4. Olive E Poirier to James E Sullivan. Feb. 6, 1931	
Feb. 7, 1931—PTN BROWN TRACT, Martinez. Alhambra Union High School District to Patterson Williams Mfg Co, Feb. 7, 1931: F A Thomas, Feb. 7, 1931; T L Rosenberg Co, Feb. 7, 1931; Worley Co, Feb. 7, 1931; Boyd Lighting Fixture Co, Feb. 7, 1931; Van Fleet-Freear Co, Feb. 7, 1931; Martinez Furniture Co (2 completions), Feb. 7, 1931	
Feb. 7, 1931—S 3/5 OF BROWN Tract, Martinez. Alhambra Union High School District to T J Kennedy. Feb. 4, 1931	
Feb. 7, 1931—LOTS 7 AND 8 BLK 48, Map of North Berkeley Terrace. Improvement Bond Co, Ltd to whom it may concern. Feb. 6, 1931	
Feb. 10, 1931—LOT 2 BLK A, Town of Crockett. Fillippo Montezano to whom it may concern. Feb. 5, 1931	
Feb. 10, 1931—LOT 21, Highway Junction Sub. P Cody to whom it may concern. Feb. 9, 1931	

LIENS FILED

CONTRA COSTA COUNTY

Recorded	Amount
Feb. 9, 1931—LOT 17 in North Richmond. John Carrick and Martin Griffin (as El Cerrito Wrecking Co) vs Carlo Biagini. \$100	
Feb. 9, 1931—ALL BLK 8, Tewksbury Heights. John Carrick and Martin Griffin (as El Cerrito Wrecking Co) vs J F Dnesdieker	\$267.23

COMPLETION NOTICES

SONOMA COUNTY

Recorded	Accepted
Feb. 11, 1931—LOTS 69 AND 70 Tier A, East Monte Rio Addition No 1. A E and Anna A Brune, to whom it may concern. Feb. 4, 1931	
Feb. 11, 1931—LOT 2 BLK 4, Proctor Terrace, Santa Rosa. C A Brauch to Mutual Home Builders Association. Feb. 11, 1931	
Feb. 10, 1931—LOTS 12 AND 13 Elk 4, Proctor Terrace Addition to Santa Rosa. J Leslie Spear to Mutual Home Builders Assn. Feb. 9, 1931	

LIENS FILED

SONOMA COUNTY

Recorded	Amount
Feb. 11, 1931—2 PARCELS OF LAND known as Brook Farm near Glen Ellen with exceptions. L P Kearny and Sonoma Valley Lumber Co	

vs Louis and Ernestina Pera and Pictitious Names. \$2549.63 & Int	
Feb. 17, 1931—HILL SCHOOL DIST. 52.05 Acres. Sterling Lumber Co vs W B Rich; Franklin A Johnson and Santa Rosa Roofing Co. \$76.75 and interest	
Feb. 17, 1931—LOT 4, Wharf's Subd of Part of Cotati Rancho. Sterling Lumber Co vs Ole Corneliusling Lumber Co. \$453.35 and interest	
Feb. 9, 1931—ON COTATI ROAD near Goodman Lane 5.20 acres and 1.42 acres. Sterling Lumber Co vs Franz and Suse Russialin. \$374.61	

COMPLETION NOTICES

MONTEREY COUNTY

Recorded	Accepted
Feb. 13, 1931—LOT 118 BLK 112, Carmel-by-the-Sea. Adolph C Lafrenz to Ernest S Binker. Feb. 7, 1931	
Feb. 13, 1931—LOT 27 BLK 114, City of Monterey. S A Ferranti to John Taunfer. Feb. 11, 1931	
Feb. 16, 1931—LOT 4 BLK 3, Maple Park Addition No. 2. Jack E Wilmoth Jr to Bruce E Baird. Feb. 14, 1931	
Feb. 5, 1931—LOT O and S 16 feet Lot R Blk 2, Sherwood & Hellman's Map of Salinas. Florence Margaret Baker to Fred McClary. Jan. 26, 1931	
Feb. 6, 1931—LOT 4 BLK 39, Map of Carmel City. Elizabeth McCung White to J Mefferd. Feb. 5, 1931	
Feb. 9, 1931—LOTS 5 AND 6 BLK 36, First Addition to Pacific Grove Retreat. W J Gould to C J Raymond. Feb. 6, 1931	
Feb. 9, 1931—E FROM CORNER No 1 Blk 324, Map of Pacific Grove. Ivan E Thomas to whom it may concern. Feb. 6, 1931	
Feb. 10, 1931—LOT 4 BLK 1, Map of Warden Tract, Monterey. Carl Husenmann to M J Murphy Inc. Feb. 1, 1931	

LIENS FILED

MONTEREY COUNTY

Recorded	Amount
Feb. 16, 1931—LOT 52, H D, Fisher's Map of Clark City. Robt J Loane vs Alfred Johnson and O F Vail. \$7	
Feb. 17, 1931—LOT 17 BLK 1, Map 2, Del Monte Heights. George D and Victor H Patrick (as Patrick-the-Plumber) vs Donald Wallace. \$13.77	
Feb. 6, 1931—LOT 13 BLK 158, First Addition, Carmel Woods. J E Eckett vs Sadie Latham. \$13	
Feb. 10, 1931—LOT 15 BLK 2, Block Book City of Monterey Union Supply Co vs Louis Salnetto, Delina Salnetto and Albert Gatti. \$50	

RELEASE OF LIENS

MONTEREY COUNTY

Recorded	Amount
Feb. 6, 1931—LOT 3-I BLK 119, Severance's Block Book City of Monterey. Frank Carrill and Dan Searie vs J C Anthony. \$15	

LIENS FILED

SAN JOAQUIN COUNTY

Recorded	Amount
Feb. 14, 1931—SE ¼ SEC. 4 T 2 S R 6 E, Stockton. Hayward Lum-	

ber & Investment Co vs Bertha McCord.....\$116 38

BUILDING PERMITS

SACRAMENTO

RESIDENCE, 5-room and garage, \$3600; No. 4417 H St, Sacramento; owner, Clark Mitchell, 2515 2nd Ave., Sacramento; contractor, Jos. Pisco, 5209 Folsom Blvd., Sacramento.

ADDITION and repairs, \$5000; No. 3030 S St., Sacramento; owner, Ficetti Co.; contractor, Thos. Hunt 1514 30th St., Sacramento.

RESIDENCE and garage, \$9000; No. 3392 K St., Sacramento; owner, John Simmonds.

BUILDING, stucco, \$5000; No. 1132 Fremont Way, Sacramento; owner, E. C. Priess, 1814 O St., Sacramento; contractor, E. C. Priess, 1814 O St., Sacramento.

MODEL, \$5500; No. 718 I St., Sacramento; owner, Post #1, American Legion, Premises; contractor, T. Maloney, 3172 T St., Sacramento.

RESIDENCE, 6-room, \$4000; No. 3916 First Ave., Sacramento; owner, O. H. Moore, 2915 35th St., Sacramento; contractor, B. H. Bell, 3254 Marshall St., Sacramento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Feb. 13, 1931—Accepted Feb. 13, 1931—LOT 41 Harding Place Sacramento, A. B. Greenman, to whom it may concern.....Feb. 11, 1931

eb. 14, 1931—2516 J STREET, Roland H Smith to whom it may concern.....February 10, 1931

eb. 14, 1931—LOT 67 and W 16 ft Lot 66 S Curtis Oaks Sub No 1 Sacramento, Harlowe M Stafford, to whom it may concern.....February 11, 1931

eb. 9, 1931—LOT 16, J ST. SUB Tract 4, Sacramento, Thomas A Scott to whom it may concern.....Feb. 10, 1931

BUILDING PERMITS

FRESNO

WELLING and garage, \$3950; No. 124 Harrison Ave., Fresno; owner and contractor, Taylor-Wheeler Inc., Power Co. Bldg., Fresno.

ERVICE station, \$12,000; No. 55 Blackstone Ave., Fresno; owner and contractor, The Texas Co., 4000 California St., Fresno.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Feb. 13, 1931—Accepted Feb. 13, 1931—LOT 10 BLK 55, Sierra Vista Addition No. 2, Fresno, Thos W Griffith to whom it may concern.....Feb. 12, 1931

eb. 11, 1931—LOTS 5, 10, 11 AND may concern.....Feb. 2, 1931

OFFICIAL PROPOSALS

NOTICE TO CONTRACTORS

OFFICE CONSTRUCTING QUARTERMASTER, MARCH FIELD, RIVERSIDE, CALIF. Sealed proposals, in Triplicate, will be received ere until 11:00 o'clock A. M., March 1, 1931, and then opened for the construction and Completion of (2) sets of Field Officers, and (8) sets of

Company Officers' Quarters at March Field, Riverside, California, in accordance with Specifications W-6694-18, dated February 12, 1931. Plans and Specifications may be had on application to the Office of the Constructing Quartermaster, March Field, Riverside, California. For further information apply to the Office Constructing Quartermaster, March Field, California

February 14, 1931
STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on March 11, 1931, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor to which special reference is made, of portions of State Highway, as follows: Placer County, an undergrade crossing under the tracks of the Southern Pacific Railroad at New England Mills (H-Pla-27-B), consisting of two concrete abutments with wing walls and grading and surfacing approximately 1000 lineal feet of roadway with bituminous treated crushed gravel or stone surfacing

Kern County, between Grape Vine Station and Bakersfield (VI-Ker-4-B & C), about twenty-nine and eight-tenths (29.8) miles in length, to be graded and the shoulders surfaced with bituminous treated crushed gravel or stone.

Orange County, at Gallivan Overhead Crossing (VII-Or-2-B), about nine-tenths (0.9) mile in length, to be graded and paved with Portland cement concrete.

Imperial County, between Holtville and East High Line Canal (VIII-Im-27-D), about six and nine-tenths (6.9) miles in length, to be graded and paved with Portland cement concrete.

San Bernardino County, a reinforced concrete girder bridge over the tracks of The Atchison, Topeka and Santa Fe Railway about 2 miles east of Essex (VIII-SBd-58-L), consisting of one 48' 0" span and four 34' 0" spans on concrete bents.

Proposal forms will be issued only to those contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Charter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issue by the Department of Public Works.

Plans may be seen, and forms of proposal, bids, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate

the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full direction as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS, DIVISION OF HIGHWAYS,

C. H. PUCELL,

State Highway Engineer.

Dated February 11, 1931.

(Feb 16-23; Mar. 2-9)

Annual figures published by all building and loan associations throughout the United States showed average assets totaling \$754,166 per association, or a gain of 300 per cent in the past 11 years, according to a survey prepared by California Mutual Building & Loan Association.

The average building and loan association assets in the United States was \$754,166 in 1930 compared with \$704,500 in 1929, \$632,890 in 1928, \$560,650 in 1927, \$501,680 in 1926, \$444,100 in 1925, \$402,393 in 1924, \$367,000 in 1923, \$333,951 in 1922, \$312,346 in 1921 and \$251,545 in 1920.

There were 8633 associations in the United States in 1920. This number increased to a total of 12,804 in 1927, and dropped to 12,666 in 1928, 12,342 in 1929 and approximately 12,000 in 1930.

Members or savers have increased without exception each year from 4,962,916 in 1929 to 12,200,000 in 1930. Total assets have at the same time, shown a gain of from \$2,519,914,000 in 1920 to \$9,505,000,000 in 1930.

Among the building and loan associations in the United States having assets in excess of \$10,000,000, are nine from California. In addition to the nine California organizations in the \$10,000,000 class, the west also claims two from Washington, one from Oregon and one from Utah.

Stocks, bonds and notes of public utility corporations in the amount of \$302,150,259 were authorized by the California Railroad Commission for sale to the public during 1930. This is the largest amount authorized in any year in the history of the commission, and compares with \$103,288,473.78 granted during 1929. A considerable amount of the money received through sales of securities of California utilities in 1930 was used to acquire control of other companies.

Determined to keep the home heating burning, appliances working, and domestic load growing to offset industrial power decline, quotas of central stations, dealers, and manufacturers set up an \$83,556,000 market for 1931, according to Electrical West. Commercial men still insist they can sell 50,000 ranges in a year, 25,000 water heaters, 75,000 refrigerators. At least \$25,000,000 in table appliances, clocks, washers, ironers, cleaners and health appliances will be sold by dealers and merchandising central stations.

**ENGINEERING SOCIETIES
EMPLOYMENT SERVICE**

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone SUtter 1684).

R-3470-S MECHANICAL ENGINEER preferably over 35 years old, with several years' experience as production engineer in the employment of company manufacturing farm machinery. Only this experience considered. Man will be given full charge of small shop and office after demonstration of ability to produce results. Must be willing to accept small salary to start. Apply by letter with full details of experience, etc. Location, San Francisco.

R-3303-S ENGINEER, preferably mechanical or chemical graduate, with 5 to 10 years' experience including considerable application of thermodynamics to solution of heat exchange problems as found in oil refinery equipment. Must have executive ability. Apply by letter with details of experience, references and photo. Salary \$200-250 per month to start. Location, Northern California.

K-322-W-2634-C-S PROFESSOR of printing for school of industrial engineering; preferably mechanical engineering graduate with broad experience in printing. Position will involve research and application to courses in craftsmanship training. Salary \$5000 a year. Apply by letter with full details of experience, references and photo. Location, East.

W-1984-C-S MECHANICAL ENGINEER, graduate for design of Diesel engines. At least 5 years' experience essential. Contract for 2 years renewable. Salary open, one-third to one-half in paper rubles for living expenses, balance in U. S. money to American bank. Applications only by letter which will be forwarded to Moscow for decision. Location, Russia.

R-3484-S ARCHITECTURAL Draftsman, skilled in pen and ink rendering, to turn out good working drawings of simple type suitable for publication in bulletins. About 4 months work. Apply by letter with personal data, salary expected and samples of work. Location, Northern California.

R-3467-S STENOGRAPHER, with several years' experience in office of paving contractor or department of public works where she would have learned street improvement assessment and tax problems. Must have executive ability. Salary depends on experience. Apply by letter. Location, San Francisco.

R-3303-S ENGINEER, preferably mechanical or chemical graduate, with 5 to 10 years' experience, including considerable application of thermodynamics to solution of heat exchange problems as found in oil refinery equipment. Must have executive ability. Apply by letter with details of experience, references and photo. Salary \$200-\$250 per month to start. Location, Northern California.

K-340-W-2251-S REFRIGERATION Engineer who has had at least five years' experience in the preparation of specifications and designs, installation and servicing of refrigerating and ice making plants up to 100-ton capacity. Single man about 30 preferred. Four-year contract with option of renewal if services are satisfactory. Salary about \$300 a month and traveling expenses to and from China. Apply by letter. Headquarters, New York.

R-3470-S MECHANICAL ENGINEER preferably over 35 years old, with several years experience as production engineer in the employment of company manufacturing farm machinery. Only this experience considered. Man will be given full charge of small shop and office after demonstration of ability to produce results. Must be willing to accept small salary to start. Apply by letter with full details of experience, etc. Location, San Francisco.

W-1873-C-S CONSULTING ENGINEER knowing garage operation, garage equipment, car repair, car utilization and manufacture of parts for repairs, to advise on equipment for service stations and repair shops, on schedule of operation of trucks, busses and passenger cars and to organize maintenance and repair of trucks, busses and passenger cars of various makes. Experience in responsible charge of fleet operation and maintenance of trucks and busses desirable. Contract for one year, renewable. Salary open. One-third to one-half in paper rubles for living expenses, balance in United States money to American bank. Applications only by letter which will be forwarded to Moscow for decision. Location, Russia.

W-2234 ENGINEER with technical engineering training, to act as sales engineer in connection with the sale and demonstration of a new type of mine drill. Should preferably have some experience and familiarity with explosives. Reasonable drawing account, plus a bonus, depending upon the results accomplished. Apply by letter. Hdqtrs., Midwest

A gas-engine driven welding set equipped with flanged wheels for track service is offered by the Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa. This "Flexarc" welder is a 2000 ampere, single operator, self-contained unit, especially suitable for construction work beyond the reach of power lines. The model is available for service on railroad tracks or in mines.

**BEAUTY OF DESIGN
IN INDUSTRIAL DOORS**

Industrial doors architecturally designed for the better class of industrial buildings are now being introduced by the Campbell Industrial Window Company. Wide stiles and rails combined with pressed steel moulding and muntins' create a beauty of design that is entirely new in the manufacture of this type of doors. Stile and rails, 1/2" wide of the tubular type of construction gives added rigidity and conforms to standard architectural design.

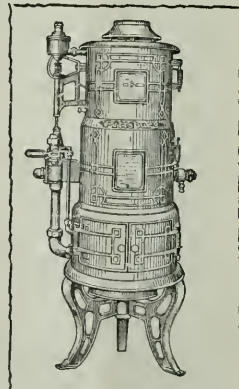
This is the first time in the history of industrial doors, according to the Campbell Company, that pressed steel shapes have been used for moulding and muntins' in place of industrial sash sections for the glass panel.

The mouldings, muntins' and stile panel below are placed in the center of the construction giving both sides of the door a finished, well designed appearance. There are no reveals of unsightly pockets to collect dust and dirt and no exposed edges of metal or otherwise, unfinished surfaces. Heavy channel reinforcement are placed in all corners of the door to give greater rigidity and provide full applications of door checks.

The frame is unique in its design and construction. It can be shipped knocked down, assembled on the job and used for either right or left hand swing doors. Standardization on mass production makes these advantages possible at reduced cost.

CATALOGS WANTED

P. Yakushin, Tsitsihar St. 13, Harbin, North Manchuria, is in the market to receive literature and catalog with regard to small machines to repairing houses, including portable painting equipment; also descriptive literature on interior decorating.



A "Pittsburg" Automatic Water Heater installed in the Home indicates high quality throughout.

Recommended and specified by all the leading architects, plumbers and builders.

Consider the high merit of the Pittsburg coupled with "Pittsburg Perfect Service."

"Hot water quick as a wink."

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309 13th Street, Oakland 478 Sutter St., San Francisco

SEND FOR CATALOGS



BUILDING *and* ENGINEERING NEWS

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thirty-first year No. 9



OAKLAND
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The only daily construction newspaper affording complete coverage of the construction activities in Central and Northern California, featuring work contemplated, bids wanted, bids opened, contracts awarded, sub-bids wanted and sub-contracts let on all types of building construction, bridges, dams and harbor works, irrigation projects; machinery and equipment; water works and supplies business opportunities, building permits, building contracts, mechanics' liens, acceptances, etc., etc.

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NEVADA SEEKS TO LICENSE CONTRACTORS

Senate Bill No. 60, introduced by Senator Getchell, which provides that all contractors who bid on public works contracts must be licensed by the state and pay a license fee of \$250 a year, will be vigorously opposed by a number of contractors and others interested, according to word from Carson City, Nevada.

The measure, it is contended by some, might operate to the disadvantage of highway contractors from California, Utah and other states, who have underbid Nevada contractors on highway work, but its provisions apply to all other contractors who may bid on public buildings or other construction where the contract is for 10,000 or more.

The bill makes the state controller, who is a director of the state highway department, registrar for the purpose of administering the act and clothes him with power to cancel the license of contractors for cause.

SEATTLE COUNCIL PLANS LICENSE LAW

The question of whether the City of Seattle will license building contractors and subcontractors will be discussed before a meeting of the city council license committee March 2, Robert Harlan, chairman of the committee announces.

The plan, according to Harlan, is to charge a license fee of \$15 per year for contractors and subcontractors, with an index filing system giving firm members and location of offices. The city under this measure could also have the power to revoke licenses for fractions of regulations.

It had formerly been proposed that contractors also be bonded, but building leaders asked that this be eliminated until the license law itself had been tried. Harlan states such a regulation would protect building owners from "fly-by-night" contractors and subcontractors."

HIGHWAY CONTRACT CHANGES AIM OF BILL

Numerous changes in the state highway department's method of making contracts will be effected if a bill passed in the Nevada State senate, introduced by Senator Noble H. Getchell, becomes a law.

The measure, S. E. 48, provides that all contractors on public works contracts shall post a 100 per cent bond in the Nevada State senate. It also requires that they shall pay a larger percentage of their workers as the job progresses, raising the limit to 85 per cent.

The contractor, however, may be in work on a job within 15 days in advance of ten. The highway commission of the state is given the right to make a complete investigation of the standing of any contractor before letting the contract on any bid.

BUILDERS URGED TO APPOINT SIMPLIFIED PRACTICE COMMITTEE

"The construction industry and the eventual owners and tenants of the structures it erects have benefited through simplification because of the tendency toward lessened costs in manufacturing, distribution and dealer-handling," according to Edwin W. Ely, Chief of the division of simplified practice of the National Bureau of Standards, Department of Commerce, in a speech delivered before the 20th annual convention of the National Association of Builders Exchanges, at San Antonio, Texas, last Tuesday.

Mr. Ely further spoke of the active interest exhibited by this association in the simplification movement, as is evidenced by their endorsement of 20 simplified practice recommendations covering commodities in the construction field. "Today," he said, "there are in effect, over 115 simplified practice recommendations covering as many commodity fields."

It was also stated by him that "materials which are readily available in stock as a result of sound simplification programs by the various industries should be of tangible aid in furthering this plan to help out in the current situation. The cost of materials is bound to enter into any repair or new work, and the cost of special or 'hard-to-procure' material may be the factor which will decide against undertaking work at this time.

"The problem is one of acquainting consumers with the purpose and benefits of simplification and the opportunity it affords for the consumer to exercise greater control over the cost of living and the purchasing power of the dollar."

It was suggested by Mr. Ely that the National Association appoint a simplified practice committee, vested with the authority to go into the details of the simplification plan, and to establish a direct and continuous contact with the division of simplified practice. Such an arrangement would be conducive to the outlining of a program of cooperation which might well lead to better net profits through increased stability and the elimination of waste.

ROOFING TILE PLANT PROPOSED

John Harnish of Santa Barbara, general manager and vice-president of the Austin Securities Company, and a group of associates have organized the Montecito Clay Products Company and have taken over the old brick yard and 12 acres of land on the Rincon ranch near Carpinteria.

The company will turn out roofing tile as well as facing brick, floor tile and also an adobe brick for the construction of buildings.

Lee S. Collins has been appointed manager of the plant.

COLORADO DEFINES ACTS FORBIDDEN BY ARCHITECT'S BOARD

Definitions of certain acts forbidden by the Colorado state law regulating the practice of architecture, such as gross incompetency, reckless dishonest, fraudulent or deceitful practice, have been incorporated in additional by-laws of the state board of examiners, adopted at a recent meeting. The text of the new by-laws follows:

"Defining certain acts which will be considered as gross incompetency, reckless, dishonest, fraudulent or deceitful practice within the meaning of the act.

"Failure to use diligence in preparing contracts or other documents for the protection of a client shall be deemed recklessness in the construction of a building. Failure to use due diligence in planning or supervising a structure, resulting in the building being improperly constructed, shall be deemed recklessness in construction.

"If failure to protect client in preparing contracts and other documents is due to causes other than lack of due diligence, it shall be deemed gross incompetency. If the planning or supervision of the construction of building by architect results in faulty or improper construction, said architect shall be deemed grossly incompetent.

"Any architect may be deemed guilty of dishonest practice if he pay any money or give anything of value to any officer or employee of the State of Colorado, or of any county, state, municipality or school district within said state, for aid and assistance in securing work from the political subdivision which he represents or is employed by.

"If an architect has secured a contract on any work, it shall be deemed dishonest practice for any other architect to attempt to supplant him so long as this contract be in force.

"It shall be deemed dishonest practice for any architect to stamp the drawings of another, or to stamp any drawings other than those made at his own office or under his personal supervision.

"It shall be deemed dishonest practice to publicly announce, or permit to be so announced, appointment as architect for any project unless a definite agreement with the owner exists."

A committee of leaders in business, public affairs and humanitarianism has been appointed by the New York State Economic Council to study unemployment, invalidity and old age, and to work out and present for consideration a program for combating in the most practical and effective manner the hardships caused by them.

TIME FOR CALAMITY COMPLEX HAS PASSED SAYS DR. KLEIN

As we emerge from the depression—and authoritative testimony indicates that the upward climb is at last under way there is a growing realization that once more, as in every period of trial, business has learned several salutary lessons. It has been through a broadening, though trying experience, a gruelling test in a truly relentless crucible.

Above all else perhaps this crisis has revealed, as none of its predecessors had, how closely interwoven the economic fabric of this nation has become during these post-war years. We can now appreciate as never before the vastly more sensitive interdependence of our business activities everywhere. And that applies not simply within our borders, but in every remote market and port around the seven seas.

This binding power of business was clearly stated by that lonely, rugged seer, who 70 years ago led this nation through trials, economic as well as political, such as would make our own recent business difficulties seem puny indeed. In one of his first debates with Douglas, Lincoln observed that "commerce brings us together and makes us better friends. . . . These mutual commercial accommodations are the cements which bring together the different parts of this Union. . . . They are the props of the house tending always to hold it up." And if that was true two generations ago, it certainly has become increasingly so, convincing in this day of a vastly more intensive, closely integrated economic mechanism. Business is no longer on the lone-wolf, every-man-for-himself basis.

It might be interesting to tabulate very briefly a few of these impressions which come to mind as we contemplate the difficult road over which business has had to make its painful way during the past few months. The tabulation of a decalogue of the depression, comprising some of the outstanding factors, might not be inopportune for future reference.

1. Don't blame the depression for everything which has marred the tranquility of the economic scene since 1929. The collapse of many parts of the business structure has had widespread repercussions, but there are other and in many cases deeper seated defects having nothing to do with the regrettable episodes of the past 16 months. Lack of vision, archaic methods, antiquated policies, within individual firms and trades, have all contributed toward weakening those involved so that when the depression came it was but the last straw, the final episode in a long sequence of causes, rather than the fundamental reason for current difficulty.

2. Don't compare peaks with slumps. Both are abnormalities. The more we flatten out the peaks, the better will be our control of the slumps.

3. Don't fall for the fallacy so general among European industrialists of expecting the wage earner to bear the brunt of the readjustment. Before resorting to that extremity, let industry be sure that every other one has been exhausted. There is plenty of slack elsewhere—careless production, inefficient management, slipshod selling. Talk of drastic slashes in American living standards and "permanent lows" in wages borders closely on economic lunacy.

4. Don't cut loose from associated activities in business. Such short-sighted "economy" is the sheerest ex-

An address of Dr. Julius Klein, Assistant Secretary of Commerce before the Manufacturers' Association of Bridgeport, Conn., Feb. 12, 1931.

travagance at this particular stage of business readjustment. There never was a time in the last ten years when cooperation was more invaluable. No one shoves off in a rowboat from a liner in a mid-Atlantic storm to save passage money.

5. Don't ignore the amazing power of the new technology. No peril is quite so disastrous in business these days as a smug, self-satisfied assurance that present technique in production will be permanent. Our engineers, our chemists, our inventors, have never shown such relentless zeal as at present. They have largely been responsible for lifting the country out of every preceding crisis. Those industrialists who cling closely to them right now will have good reason to be thankful.

6. Don't eat marketing research. Our gravest deficiency still lies in the field of defective distribution. Our major business problem these days is not what can be made, but what can be sold. If the billions wasted there would be salvaged, even in a modest proportion this year, it will be the largest single contribution to our recovery. Closely associated with this is the need of sustained, far-sighted advertising as an invaluable adjunct to more effective and economical distribution. The stimulus, not of blatant ballyhoo, but of well-founded publicity was never more necessary than now. There can be no recovery of business with lagging demand, or unwarranted timidity of consumption.

7. Don't overlook the stabilizing value of foreign markets. They can not be exploited on short notice. Many a firm has survived this recent storm because its executives had the foresight in fair weather to plant an anchor in two or three carefully selected markets far overseas.

8. Don't fall again into the perils of mass mania, the delusion that the sole purpose of business is "busy-ness." Quantity operations whether in output or distribution are by no means an invariable assurance of quantity profits. The latter are indeed elusive unless that fateful margin between income and outgo is thoroughly sustained and respected (not merely suspected). The dinosaur was a first class example of mass production. But he and his kind have all been quite dead for several million years because too much of their "mass" was below their eyes.

9. Don't overlook the perils of obsolete equipment. It is wiser to have the junk heap outside the factory than in it. Nearly half (48 per cent to be exact) the machinery in our over-american factories today is over ten years old. The paralysis of advancing senility is all the more dangerous because its stealthy approach is so painless, so easy.

10. Don't be stampeded by unfounded rumors. They are the fodder on which crises flourish. In these days of abundant, accurate statistical data and superb communication facilities, there is no longer any valid excuse for mischievous gossip—peddling among the ranks of sensible business executives. The mendacity of every irresponsible, dangerous rumor can be and should be instantly squelched

And it will be, as long as ours is still a business leadership of men, not mice. The time for the calamity complex has passed.

GENERAL CONTRACTORS RE-ELECT BERGSTROM

The annual meeting and election of directors of the General Contractors of San Francisco was held at the Elks Club, February 19th. The business meeting was preceded by an excellent dinner with some fifty members present.

President Bergstrom in his Annual Report outlined the activities of the past year, calling particular attention to the successful legislative campaign, not only in the City and State Government, but also in the National Government.

During the course of the evening many important matters were discussed pertaining to the welfare of the general contractor and general advancement of the building industry as a whole.

The following directors were unanimously re-elected to serve for the ensuing two year period: Messrs. A. H. Bergstrom, John Monk, J. S. Malloch and N. F. Nielsen.

At the organization meeting of the Board the following officers were chosen: A. H. Bergstrom, President; John Monk, 1st Vice-President; H. H. Hill, 2nd Vice-President; J. S. Malloch, Treasurer; C. J. Dixon, Secretary; N. F. Nielsen, J. Martiniell and Chas. L. Taylor, Directors.

ITINERANT CLASS IN ARCHITECTURE ANNOUNCED BY S. C.

Emphasizing study of the latest trend in modern architecture as expressed in England, Italy, Spain, France, Germany and Holland, a traveling class is announced for this summer by the University of Southern California, to be in charge of A. C. Weatherhead, dean of the Trojan School of Architecture. Recent work in New York, on the Pacific coast, and in other American cities and sections will be contrasted with developments in Europe.

Termed a "vagabond's tour" the trans-national educational trip, available to men only, is limited to architects and students of architecture and the allied arts. Members of the party will be special guests of the Paris Beaux-Arts, the Fontainebleau summer school, and of the American Academy in Rome. Lectures will be included, as six units of college credit will be granted to those who complete satisfactory requirements.

"The tour is non-profit making and non-commercial, and is an important educational feature of the School of Architecture of the University of Southern California," states Dean Weatherhead. "Souvenir buying will be discouraged, and every attempt has been made to keep the total cost, which includes many special advantages, as low as possible. Travel in America will include stop-overs at El Paso, New Orleans, Washington, D. C., and New York City, as well as Montreal, Chicago, and other points on the return trip.

MARSDEN MANSON, ENGINEER, PASSES

Marsden Manson, 81, former city engineer of San Francisco and former member of the board of public works, died Feb. 21 after a short illness.

Manson aided in formulating the original plans for the Hetch Hetchy water project and was a prime mover in the construction of the San Francisco civic center.

His public service began as an assistant United States engineer. Later he served as assistant engineer for the state harbor commission and was president of the state highway department several years. As a member of the board of public works and assistant city engineer from 1906 to 1907 he aided in designing the park, street and playground systems. He was city engineer from 1908 to 1912. Manson was the author of several books on engineering. His widow, a daughter and a son survive.

STATE PLASTERERS CONVENE AT FRESNO

M. E. Summers, president of the Contracting Plasterers' Association of Fresno, was elected president of the California State Conference of Master Plasterers' Associations at the seventh annual convention of that organization in Fresno last week.

W. C. Scollan of Sacramento, was elected first vice-president; S. L. Lord of Long Beach, second vice-president; and W. A. Keen of Glendale, third vice-president. N. L. McKenzie of Fresno was elected treasurer and Harry Cayford, secretary-manager of the Fresno Builders' Exchange, was elected secretary of the Conference.

Executive board members, each representing a member association, are: William Makin, Oakland; C. Walker, Long Beach; R. Rinch, Glendale; Lew Hughes, Pasadena; Sidney J. Ames, southwest Los Angeles; Joseph E. Young, Santa Monica; Joe Masi, Fresno; George Pedruff, Los Angeles; and Joe Provenzano, San Jose.

STOCKTON BUILDERS OPEN NEW QUARTERS

City officials, local architects and members of the Stockton Builders' Exchange officially opened the new headquarters of that organization at 242 East Miner Ave., last Wednesday.

The affair was attended by approximately 100 persons, including City Manager Walter B. Hogan, Mayor J. Carl Franklin, Post Director Allan Conclincin, Raymond J. Wheeler, M. F. Richards and John Pengelly, Wm. A. Curtis, city building inspector, and T. W. Genuit, plumbing inspector; Architects Glenn Allen, John Upton Clowdsley, Howard Bissell, Victor A. Galbraith and Joseph Losenkann were guests.

L. S. Peletz, president of the exchange and Colonel Allin, city port director, were among the principal speakers.

An Italian dinner, a wrestling match and a varied program of entertainment closed the dedication activities.

Investigation of the effects of high temperatures on metals will be undertaken by the Engineering Foundation in conjunction with the American Society of Mechanical Engineers and the American Society for Testing Materials. The investigation, for which 20,000 has been appropriated, will continue for two years.

STANDARD WAGE SCALE ON CITY WORK

Standard wage scales will be required of contractors for city work if the San Francisco Board of Public Works accepts a ruling handed down by Assistant City Attorney Henry Heidelberg.

Heidelberg ruled that there is no legal objection to placing clauses in city contracts to provide that the successful bidder must pay his workmen the wages prevailing in their craft.

The opinion followed a request from the San Francisco Industrial Association for a ruling on the legality of providing in city contracts that the scale set up by the Impartial Wage Board must be followed. Heidelberg held that the Board of Public Works cannot require the wage board's scale as such, but can take this scale into consideration in determining the prevailing rates of pay.

The opinion advises that the Board of Supervisors be requested to authorize the Board of Works to include provisions for standard wages in all contracts.

STREET LIGHTING PUBLICATION ISSUED

Utilitarian street lighting equipment and ornamental street lighting equipment are described in two new publications, identified as Catalogs 218-A and 218-B respectively, of the Westinghouse Electric and Manufacturing Company, Edgewater Park, Cleveland, Ohio.

The term "utilitarian" is applied to those types of street lighting equipment in which the current is carried to the lighting units by overhead wiring, to distinguish installations of this character from "ornamental" street lighting systems, in which the energy is conveyed to the lighting units through underground cable construction.

Each of these new publications includes general information regarding street lighting installations, descriptions and photographs of the various Westinghouse street lighting units and standards, and descriptions of street lighting accessories. Attractive covers, printed in four colors, are features of the catalogs.

S. R. DE BOER TO PLAN BOULDER CITY

Immediate construction of a full-grown city on the desert is the job before S. R. DeBoer members of the Denver, Colo., city planning commission.

He has been employed and given full responsibility for designing Boulder City at the site of the world's greatest reclamation project, Hoover Dam.

Homes, churches, schools, theatres, playgrounds, hospitals and business buildings must be built on the white, hot sands of the Nevada desert for the use of men who will build the dam and their families.

Parks for beauty and recreation must be provided, and, above all, the mistakes made in the building of other cities must be avoided because Boulder City, built by the federal government will be looked upon as a model city whether it is so intended or not.

Cross streets, except for mail boulevards are eliminated from DeBoer's plan, in the interest of economy. There will be no alleys. Space for loading and unloading will be provided by the receding form in buildings.

WHEAT STRAW USED IN PLASTER BASE

An improved plaster base is announced by the Stewart Insulo Board Corporation of St. Joseph, Mo., manufacturers of Insulo Board insulation made from wheat straw.

The new product is known as free-expanding Insulo Lath. Patented features of the new plaster base, are said to overcome every objection to the ordinary insulating lath.

It provides for free expanding plaster base by permanent expansion spaces. It removes the danger of cracks, bulges, or warping. With this new lath, there can be no unsightly plaster stains caused by the infiltration of air, as with ordinary wood or metal lath. It is a sound proofing material and provides insulation against heat and cold.

The free expansion is provided by beveled edges and ends which give expansion space all the way around. These permanent expansion spaces are so arranged that the space cannot be filled with plaster. Nailing slots are provided which permit slight movement without binding, eliminating bulges and warping.

With this new improved Insulo Lath, the manufacturer points out, there is no need to dampen the plaster base, double thickness of lath and quick setting plaster being recommended, especially for ceiling work.

CONTRACTOR WINS SUIT FOR PAYMENT

A judgment for \$21,689 won by J. A. Woolvin, building contractor, in the Los Angeles county superior court against the First Methodist Episcopal Church of Pasadena, was affirmed by the third district appellate court at Sacramento. The church was erected by Woolvin in 1922 and 1924. It cost about \$125,000 more than the original estimate of \$437,950. The contractor sued for the unpaid balance due for labor and materials, claiming that he had done much more than was contemplated by the original plan of specification. A counter-claim for \$56,289 was set up by the church trustees, who asserted he had been overpaid that amount. On trial of the suit, however, Mr. Woolvin was awarded judgment for \$21,669.

WESTINGHOUSE AND G. E. FORM ALLIANCE

Two of the country's largest units in the electrical manufacturing industry—Westinghouse and General Electric—have formed an alliance under the Webb-Pomerene act jointly to engage in certain phases of their foreign trade.

Subject to the approval of the Federal Trade Commission, the Electrical Apparatus Export Association has been formed by the subsidiary organizations of the two concerns, the Westinghouse Electrical International Company and International General Electric, Inc., of New York City.

H. F. A. Schoenfeld of the International General Electric Company, who will be manager and supervisor of the association, announces the newly organized association will handle certain part of the export business. What it will encompass has not yet been decided upon, he said.

The senate commerce committee on February 19 reported favorably a bill by Senator Johnson of California to provide for an annual census bureau compilation of facts concerning the construction of industry.

THE OBSERVER

What He Hears and Sees on His Rounds

Surveys are being made by the City Port Commission of Oakland for the development of "North Harbor," consisting of 1720 acres lying immediately north of the Key System mole which is to be the eastern approach of the proposed San Francisco Bay Bridge. The developments will provide berthing space for 90 large vessels as well as piers, transit sheds, warehouses and similar facilities.

Moscow newspaper, commenting on American embargo on Russian lumber, reiterated assertions that charges of forced labor in the Soviet union are "ridiculous" and threaten retaliatory measures. Pravda, asserting that American action will be felt as keenly by American business as by Russian, threatens the embargo "will endanger future industrial relations between the two countries and certainly will affect the balance of trade which in 1930 was more than \$100,000,000 in America's favor."

All-steel houses, without a rivet or a bolt in them, will be manufactured in St. Louis, Mo., by the Scullin Steel Company.

In announcing the innovation, Harry Scullin, president, said long research had proven the feasibility of constructing houses in such a manner.

The metal sheets, girders and joints will be made at the plant in St. Louis and shipped in pieces. In erecting the houses, a special portable type of welding machine will be used.

Scullin estimated that the costs of such construction would vary "from 2 per cent less to 10 per cent more" than in structures of other materials, but said an appreciable saving would result due to slow depreciation and low fire insurance costs.

A proposed ordinance that would compel contractors on city projects to pay the prevailing wage scale, has received the approval of the San Francisco Board of Public Works. The proposed measure is said to have the approval of the Industrial Association of San Francisco and the labor unions.

Albert P. Greensfelder of St. Louis, president of the Associated General Contractors of America, has been advised by Secretary of Commerce Robt. P. Lamont of his appointment as chairman of the construction committee of the White House Conference on Home Building and Home Ownership.

A. E. Horst, retiring president of the Associated General Contractors, was appointed last fall by President Hoover as a member of the planning and executive committees of the conference and at that time presented on behalf of the association a comprehensive program for a general housecleaning within the construction industry.

It is expected that the conference will soon get definitely under way and that as chairman of the construction section Mr. Greensfelder will urge many of the reforms recommended in the plan submitted by Mr. Horst, the keynote of which is the placing of the design, workmanship, appraisal and financing of construction upon a sound basis.

A bill has been introduced in the New York legislature amending the general municipal law by providing that a contractor may be required to file both a performance bond and a separate bond to protect the subcontractors, material men and laborers. The exacting of such bond is now required on state contracts.

Susauville, Calif., sawmill unit of the Fruit Growers' Supply Co., opened Feb. 18 on a 10-hour day schedule with a cut in wages of 10 per cent. Forty men were given employment in the mill. Wood operations are expected to begin about April 1, depending upon weather conditions.

Merger negotiations which have been in progress several weeks last Thursday resulted in consolidation of the redwood properties of the Hammond Lumber Company and the Little River Redwood Company. The new concern was named the Hammond & Little River Redwood Company. All the properties involved are in the vicinity of Eureka.

A. B. Hammond, veteran lumber executive, was chosen president of the merged company. Harry W. Cole, until the merger president of the Little River Company, will remain with the organization in an executive capacity.

The value of properties affected directly and indirectly was estimated at about \$60,000,000.

The consolidation will give the new company more than 100,000 acres of redwood timberland, with a complete logging railway system and equipment. The Hammond mill at Samoa, Humboldt County, has a capacity of 375,000 feet per day on one shift. The Little River plant at Crannell, Humboldt County, has a 200,000-foot capacity. At Samoa there is a planing mill, sash and door factory and various equipment for allied operations, some of which is practically duplicated at the Crannell mill.

Resolutions protesting the proposed amendment of the state civil service regulations which would require all civil service employees of the state to pass examinations every four years, have been sent to the governor and the legislature by the Alameda County Civil Service Employees' Association. Passage of the bill would threaten the state with a return of the spoils system, Paul Wuthe, president of the association, declared.

The Associated General Contractors of America and the Dayton Ohio, Builders' Exchange, has arranged joint meetings between contractors, architects, building and loan associations and others in order to work out ways and means of providing any interested party with unbiased information as to the grading and quality of a residence structure.

A contractor violates the Contractors' License Law when he abandons a contract.

The State Department of Professional and Vocational Standards, which department enforces the Contractors' License Law, is now holding that if a

contractor enters into a contract with materialmen or sub-contractors for the purchase of material or for the performance of sub-contracts and does not pay for such materials or such sub-contractors that there has been a violation of the Contractors' License Law inasmuch as there has been an abandonment of the contract by a failure to pay labor and materials bills. In other words a contractor may be guilty of abandoning seven or eight contracts on one job by failing to pay labor and material bills, and the abandonment of a contract (in other words the failure to pay material or labor bills) is sufficient to obtain the cancellation of the Contractor's license.

Every contractor who fails to pay labor and material bills on his job can be prosecuted under the Contractors' License Law and prohibited from operating as a Contractor in the State of California.

Four elderly men, operating from a little office on a side street in St. Louis, Mo., are about to launch a world-wide crusade for an industrial millennium in which there will be more jobs than men to fill them, four holidays a week, and no savings accounts.

They diagnose the present industrial depression as due to too many working a week for the employed and offer as a solution a three-day week of 10 working hours a day, under a plan they claim will give work to 10,000,000 "idle Americans" and increase buying power \$5,200,000,000 annually.

John H. Zimmer, Washington University psychologist; William Siefert, consulting engineer; E. D. Emme, retired botanist, and Herbrand Rohmann, contractor, are the four crusaders and founders of the "three-day society."

Armed with pamphlet and a helpful letter from Professor Albert Einstein, branches will be set up in all countries, according to Zimmer. Einstein wrote Zimmer that the plan "masters the center of the problem perfectly."

"Many workers now place in banks that which is left over after they pay their living expenses. Under our plan this excess would not be available, and while incomes would be reduced, buying power would increase," Zimmer said.

Production of Portland cement in January, 1931, was 5,581,000 barrels against 8,450,000 in December and 8,498,000 in January, 1930, the U. S. Bureau of Mines reports. Shipments were 4,637,000 barrels against 5,688,000 in the preceding month and 4,955,000 in January, 1930. Stocks on hand at the end of January were 27,777,000 barrels against 25,833,000 barrels in the previous month and 27,081,000 barrels a year ago.

The U. S. Supreme Court on Feb. 24 ruled that a Russian corporation has the right to sue the United States Government in American Courts. The issue was raised on appeal by the Russian Volunteer Fleet Corporation to recover approximately \$1,500,000 for two ships requisitioned by the Emergency Fleet Corporation during the World War in 1917.

The House Military Committee has approved a bill authorizing an appropriation of \$25,000 for acquisition by the Government of timber rights on the Giggling field artillery target range in Monterey county.

HERE—THERE EVERYWHERE

Annual convention of the American Concrete Institute will be held in Milwaukee, February 24, 25 and 26.

Annual convention of the National Railway Engineering Association will be held in Chicago, March 9 to 12 inclusive.

Hayward, Calif., city council has approved proposed legislation to assign some of the state gasoline tax funds to use on city streets which are continuations of state highways.

The 1932 convention of the California Retail Hardware & Implement Dealers Association will be held in Sacramento. The convention has been held in San Francisco every year since 1927, when it was held in Sacramento.

Appointment of a commission of seven to make a comprehensive study of the hardwood lumber industry and formulate a persistent and intensive advertising and trade promotion campaign has been authorized by the Hardwood Manufacturers Institute, Memphis, Tenn. G. H. Henderson, Angella Hardwood Co., Keltys, Tex. is president.

A proposed plumbing and gas installation ordinance submitted to the Hayward, Calif., city council by Manuel G. Riggs, city building inspector and members of the Master Plumbers' Association, has been rejected. Some phases of the proposed ordinance would require too great an expenditure on the part of the builder, according to a majority of council members.

The San Mateo County Plumbers' and Steam Fitters' Union has petitioned the city councils of San Mateo and Burlingame to adopt an ordinance governing the installation of gas appliances. The proposed ordinance is similar to that adopted by the city of Oakland.

The Washington State Society of Architects has adopted a resolution in favor of all support possible to bring about the action of the legislature of the state of Washington to appropriate the sum of \$100,000 for a survey for a proposed low-grade tunnel under the Cascade mountains.

An initial business license fee of \$100 will be charged plumbers, sheet metal shops and electric shops in Lindsay, Calif., under the terms of an ordinance that has been given its first reading by the city trustees. The object of the ordinance is to eliminate the possibility of day-by-night operators in the trades taxed.

Average prices paid by contractors for lumber delivered on the job in Los Angeles as of January 1 are reported by the Bureau of the Census as follows: No. 1 Douglas fir, 81x8E, 2x4-in. by 16 ft., \$31.50; No. 1 common boards, 1x6-in., \$30.50; No. 2 vertical grain Douglas fir flooring, 1x4-in., 10 to 16 ft., \$54.50; red cedar shingles, \$4.40. In a list of 19 selected cities throughout the country Los Angeles has the lowest prices for lumber except San Francisco and Seattle.

ALONG THE LINE

American Society for Testing Materials will hold a regional meeting at Pittsburgh, Pa., March 18.

Harry D. Chapman, former city engineer of Richmond, has been appointed city engineer of El Cerrito, Contra Costa County, succeeding Ross Calfee.

Chas. H. S. Pratt, 69, manager of an Oakland paint concern, is in the St. Francis Hospital, San Francisco, suffering from results of a paralytic stroke while on the train returning from a Socialist meeting at Glendale.

William Yocum, a member of the staff of County Surveyor George A. Fosy of Alameda County, has been made principal assistant engineer following the resignation of Walter Boggs to enter private practice as a civil engineer.

John Bell, for many years president of the San Francisco Building Trades Council and former president of the Wood, Wire & Metal Lathers International Union, died in San Francisco, February 15.

Melvin G. Wilson, a member of the general contracting firm of Wilson & Nutwell of Fresno, is a prospective candidate for the office of city commissioner of Fresno at the municipal election in that city on April 13.

R. W. Evans has been elected president of the Stockton Chapter, American Association of Engineers for the coming year. He succeeds Harold A. Walker, retiring president. Other officers are Max Paul, vice-president; R. M. Brittsan, secretary-treasurer; H. A. Walker, J. E. Manthey and F. C. Mitchell, executive committee.

An investigation committee appointed by the Stockton Architects' Association has unanimously approved the proposed major street plan for that city as outlined by the City Planning Commission. An intensive study of the tentative plan was conducted by a group consisting of Peter L. Smith, Victor Galbraith, Glenn Allen, Ralph P. Morrell, J. U. Clowdsey and Howard G. Bissell.

Formation of the Arundel-Atkinson Construction Corporation for the purpose of bidding on the work for the construction of Hoover Dam is announced. It is stated that the new corporation will represent the combined forces of the Arundel Corporation, of Baltimore, and Lynn H. Atkinson, of Los Angeles.

A delegation of fifteen contractors recently attended a city council meeting at Merced, urging adoption of a new building code to be "more flexible" than the present one. Under the new ordinance it is proposed to give the building inspector discretionary power. Incompetent contractors would be barred from work in the city under the contractors' plans.

Harry P. Brigarets, general vice-president of the International Electrical Workers' Union, was a recent visitor in San Jose.

TRADE NOTES

Continental Building Specialties, Inc., 408 S Spring St., Los Angeles, has been selected as Southern California representatives and distributors for the Campbell Industrial Window Co., Inc., of New York City.

Pacific Coast Cement Co. has promoted Darwin Meisen, of Seattle, to the position of vice-president in charge of sales. He was formerly sales manager.

Harold P. Plummer, formerly in charge of eastern sales for the Union Lumber Company, is now general manager with headquarters at San Francisco.

Universal Power Shovel Co., Milwaukee, Wis., has appointed the B. Hayman Co., Los Angeles, Southwest distributor for shovels and material-handling equipment.

Negotiations for the merger of the Victor Welding Equipment Company of San Francisco, and the Kimball Pump Company of Los Angeles, will be completed within the next thirty days, according to reports.

The business of the Payne Hardware Co., 81-85 E Santa Clara Street, San Jose, has been purchased by Lane M. Dorr, Wayne E. Chandler and W. G. Hesson, all of San Jose. Both Dorr and Chandler were associated with the Payne Hardware Company for 11 years.

Long Beach building trades unions are fairly well on the five-day week schedule. The painters have voted for the proposal and the bricklayers, hod carriers, plasterers, sheet metal workers and plumbers are said to be following in order. Five of the largest following in order. Five of the largest to have adopted the 5-day week plan following conferences with officials of the Electrical Workers' local union.

California State Conference of the Plasterers and Cement Finishers will be held in Oakland, March 14, and continue in session for two days. The delegates will attend the opening session of the annual convention of the State Building Trades Council in the Hotel Oakland on Monday morning, March 16.

Raymond Concrete Pile Co., New York City, has opened a Northwest office in Seattle, Wash., in charge of George H. Tutley, district manager.

January wholesale prices of six standard plumbing fixtures for a six-room house, as ascertained by the Bureau of the Census from reports of 12 representative manufacturers and wholesalers, averaged \$98.26 as compared with \$98.52 in December, 1930, \$100.55 in January, 1930, and \$100.30 in January, 1929.

High school districts would be put in the hotel business if a bill by Assemblyman George R. Bliss of Santa Barbara County is adopted by the state legislature. Bliss provides that any school district may construct and maintain dormitories for use of pupils in attendance at the high school, and shall fix rates of payment for this service.

INDUSTRY CANNOT THRIVE ON FRAUD OR USURY SAYS AUTHOR OF BUILDING FINANCE MEASURE

(By J. W. Morin, Author of the bill for Regulation of Building Finance and Author of the Contractors' License Law of 1929)

The new proposed law for the regulation of building finance does not affect or touch the Mechanic's Lien Law. If the Mechanic's Lien Law is satisfactory to present day business, get what comfort you can out of it. It assists you in an effort to collect back what you have lost, maybe, but his proposed new law affords a diligent man an almost sure preventive of loss, by enabling him to determine in advance of furnishing labor, material or even purchasing the building finance paper, an answer or method of ascertaining answers to the following questions:

1. Who owns the property, and where they live.
2. The extent of the so-called owner's title, whether in fee or merely on shoe-string.
3. The general character of the building project and how much it is proposed to spend thereon.
4. What encumbrances are already against the property, and the meaning of the encumbrances, whether real money is available and when and by whom to be furnished, and where these people may be found, and whether or not the loans represent the satisfaction of various miscellaneous previous personal obligations, previous real estate transactions, purchase price of the property itself, second hand automobiles, or cats and dogs, or capital for the new building enterprise. (The mere record of the encumbrance under present existing laws answers none of these questions).
5. By requiring a statement of exactly the extent of the cash available, and when and how, this new law, if adopted will smoke out the dummy and usurer. Neither of these factors in the building project are conducive to its success.
6. As conclusions from the foregoing,

an intelligent reader of the foregoing set up knowing the character of the project and figuring the extent of the money available and the terms upon which it is available, can determine immediately as to whether or not the job is already financed, or is just a scheme.

The new proposed act does not bother the money lender, nor he who builds on clear property, nor require him to make any statements, nor take any new chances. Surely, legitimate, bona fide money lenders would not willingly ask a money borrower to misrepresent the conditions under which the loan is available, and invite society to participate in a game in which the dice are loaded.

There are only two classes of people opposed to the idea of this new proposed law: first, those who do not understand the problem which it is designed to meet; secondly, those who are so foolish as to believe that any industry can thrive on either fraud or usury.

In general you can only reap where you sow, and this is as true of finance in the building industry as it is under any natural law. It is only the money that goes into the building which will furnish a genuine resource in giving stability to the industry. You may postpone, you may equivocate, but you must ultimately face this natural law and comply with it.

Moreover, money lenders, even tho they be conservative, who are depending upon holding escrow agreements at variance from the recorded loan papers, off the record, are living in a fools' paradise, and are liable at any time to suffer great loss, even under existing law, when this abuse of business method is presented to a court of last resort.

NEW PROPOSED LAW FOR THE REGULATION OF BUILDING FINANCE

By J. W. Morin, Author of Contractors' License Law of 1929

(NOTE: This bill was introduced in the State Senate in January, 1931, but it is proposed to modify it by the addition of the words and phrases shown in black face type.)

An act defining building loans and providing for recording a statement of the condition of title and the arrangements for financing of the proposed construction or improvements on real property, providing for the clearing of said record, and providing for the punishment of the violation of the terms thereof. The people of the State of California do enact as follows:

SECTION 1. Any contract or arrangement between two or more persons, firms, or corporations, whereby an obligation is secured by a mortgage or deed of trust, or other conveyance of, or lien upon, real property, upon any contract, arrangement, or understanding whereby any portion of the consideration for the creation of said obligation is to be paid furnished or advanced subsequent to the beginning of any work of improvement upon said real property, or conditioned upon the improvement thereof, as hereinafter referred to, is hereby defined as a building loan, and a statement designating the building loan shall be made within the in-

strument and as a part thereof, prior to the recording thereof. Consideration is to be deemed as advanced or rendered under the terms of this Act only when it has been wholly delivered into the unrestricted possession or control of the borrower.

SEC. 2. No owner of real property which is subject to the lien of a mortgage or deed of trust shall begin an improvement thereon in the construction, alteration, addition to or repair, either in whole or in part, of any building or structure, or any grading or other work of improvement upon said lot, parcel or tract of land, unless said owner, or his representative who has knowledge of the fact, shall, within ten (10) days next immediately preceding the beginning of said improvement, record in the office of the County Recorder of the county wherein said land is situated, a written statement to be termed a notice of intention to improve real property, verified on the oath of the owner or said representative, setting forth the following facts:

The legal description of the real

property upon which it is proposed to make said improvement; the name and address of the record owner; the nature of the record owner's title, whether in fee, as trustee for an owner, as contract purchaser, or otherwise; the general character of the proposed improvement; the amount which is proposed to be expended thereon; the names and addresses of all persons, firms or corporations, so far as known, who hold encumbrances against said real property other than encumbrances, liens or taxes created by the operation of public improvement statutes and ordinances; together with a statement as to which of said encumbrances, if any, are building loans, as herein defined, and as to whether or not the entire consideration for said stated encumbrances has been already advanced, rendered, or if not, the name and address of the person, firm or corporation by whom, and the amounts of and the terms and conditions under which, any future advances or other consideration is to be rendered or advanced, including the amount and character of any advances which are to be made, at the option of any party to any encumbrances.

SEC. 3. A verified statement, executed by the owner of any improvement herein referred to, or of the representative of said owner, as hereinabove provided, which shall identify any notice of intention to improve real property theretofore recorded, and shall aver that such project was abandoned before the beginning of the furnishing of any labor or materials thereon, from the time when said notice of abandonment of improvement shall have been recorded in the office in which the notice of intention was previously recorded, shall be deemed prima facie evidence sufficient to terminate the effect of any record of the notice of said intention to improve theretofore recorded.

SEC. 4. Nothing herein contained shall be deemed to require the recording of such notice of intention to improve real property in the case of work initiated under the authority of any state or any county, city and county, city or other political subdivision, whatsoever, or shall in any case be deemed to affect any work of improvement upon the operative property of a corporation under the regulation of the state railroad commission, nor in case of any work of improvement wherein the entire project, or scheme of improvement as a whole, shall involve a total expense of less than five hundred dollars.

SEC. 5. Any person, firm or corporation violating any of the provisions of this act, or procuring another to violate the terms of this act, shall be guilty of a misdemeanor.

SEC. 6. If any section, subsection, sentence, clause or phrase of an act of this State is held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this act. The legislature hereby declares that it would have passed this act and each section, subsection, sentence, clause and phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses or phrases be declared unconstitutional.

Legislation designed to raise the educational qualifications required of engineer applicants for license in New York State was introduced by the New York State Society of Professional Engineers at its regular winter meeting. The convention also gave its approval to the by-laws recently adopted by the state board of examiners in which a comprehensive set of written examinations for applicants not graduates of recognized engineering schools is outlined.

MEASURE REGULATING BUILDING FINANCE WILL BENEFIT INDUSTRY

(By George W Israel, Secretary-Manager, Pasadena Builders' Exchange)

With the "Declaration of Intention to Improve Real Property" made a law, the various construction organizations, credit concerns and other organizations working for the benefit of the building industry and building public will have an asset for quick recourse which will make membership in these organizations, indispensable to all worthwhile concerns. With the changes in the Contractors' License Law completed, together with Lehmer's changes in the Lien Law, he cut throat concerns will fast disappear and the builders' business will take on a semblance of sanity.

In submitting to the building industry the proposed act defining building loans and providing a method for the recording of a "Notice of Intention to Improve Real Property," the intention of the industry is called to the fact that no existing legislation in this subject matter seems in any way adequate to protect the masses of material men and the masses of investors as they actually exist in large numbers throughout the State, giving due allowance to the lack of legal training.

The whole purpose of the Mechanic's Lien Law as it has stood in California for more than two generations as been subverted by a type of slickness who is on the border line of a rascal and a builder, partakes a tinge of both but is not either a bona fide financier or a bona fide builder. His type of citizen has become especially prominent in the last ten years, he was occasionally seen as far back as nearly twenty years ago but was very uncommon at that time. He learned and is teaching others to believe they are good citizens to start the building of buildings without money, getting his real estate from

one direction, his materials and labor from his wife, and his money from various sorts of people who are attracted by a promise of from eight to twenty-five per cent interest together with elaborate discounts from the face of building paper.

Regardless of theories it is practically impossible for an outsider to a building project to determine with any accuracy what are the actual agreements and understandings under which the speculative structures are built. A natural practice of the building industry, therefore, must either turn down business which may look a little suspicious or take a chance and then wait to see whether or not they will lose their money at the final wind-up of the enterprise. It would seem to be much more reasonable that the true character of the enterprise be brought out into the light by a statement necessarily giving it its true character as black or white before construction begins rather than that these huge chances be taken by society and the situation developed as a salvage proposition rather than the application of preventative measures before a loss has occurred.

It is true that there are through the application of legal technical matters by which many irregular building loans can be beaten by the construction industry through litigation, but most of these cases are just 50-50 chances and seldom ever can a building material man actually show a profitable operation on his books even from a successful experience in a complicated law suit. The political view has been devoting a great deal of thought in the past ten years to the prevention of war. The business world must do the same.

and materials furnished, and for the value of the use of such appliances, teams or power, . . ."

It is difficult to see, if the facts in the case above set forth, how there could be any room for question that the contractor in this case did supply both labor and materials, and his service in the improvement of the property of another provided a contract giving him the right to do so along with the right to be reimbursed therefor. It is equally difficult to understand on what theory it could be held that, under the law, he was not entitled to assert and enforce a lien for the value of the labor, materials and services so applied.

It is understood that a lower court in California in the particular case has held that the lien laws of California give the contractor no rights in the particular instance. It is likely such ruling is predicated on a very old California case (Godeffroy v. Caldwell, 2 Cal. 489) decided in 1852 holding that the mechanics' lien law then in effect provided no excuse for the security of the material men and laborers; and that one who merely advanced money alone, although the money was expressly used for the payment of materials and labor devoted to the erection of a building, had no claim to the benefits of the law.

But the facts of that case, as they are understood, could have little, if any, application to the facts of the present case. There, the party claiming the benefit of the law had merely made a loan to the owner—here, the party claiming the right to enforce a lien, while he made an advance of money, such advance was not to the owner, but was expended by him, the contractor, in providing labor and materials under his contract.

The case cited is the only one in California that has been found on the subject of advance of money. The facts of this case are very materially those in Barker & Stewart Lumber Company v. Marathon Paper Mills, 146 Wis. 12, where a material man, as a convenience to the contractor, advanced the freight on the materials sold by him to the contractor. In that case, it was held that he was entitled to maintain a lien not merely for the value of the materials but for the freight charges paid thereon. There are many similar cases in the courts of other states.

The question stated comes down to this: Did the contractor make a loan to the owner, or did he supply labor and materials in the improvement of the owner's property? In the former case, he would have no right under the mechanics' lien laws of California. In the latter case, there is scarcely room for question that he had such right if he proceeded thereafter in accordance with the requirements of law.

LABOR ENDORSES EMPLOYMENT BILL

Labor organizations are urging the passage of Assembly Bill No. 126 by Assemblyman T. M. Wright, San Jose, prohibiting employment agencies, from charging a commission for work given on any public project.

This measure, it is pointed out, will curb the business of employment agencies which collect a large percentage of their incomes from fees paid by workers on public construction projects.

The bill also specifies that contractors engaged in highway or building construction for the state, county or city cannot hire workers through employment agencies charging fees.

It would mean that all labor for public projects would be employed through state, county or city bureaus or by the contractors directly.

CONTRACTOR'S RIGHT TO COLLECT FOR WORK UNDER CALIFORNIA LIEN LAW CITED

Is a contractor for work done in California under a cost-plus form of contract entitled to maintain and enforce a lien on the building partially completed under his contract for the amount of moneys advanced by him and expended for labor and materials in the prosecution of the work together with an agreed fee on such expenditure?

The above question was asked of Herman J. Galloway, legal editor of the Constructor, national publication of the Associated General Contractors of America.

The facts of the case are summarized in the following:

A California contractor entered into a cost-plus contract for the building of a country club. The promoters of the club were unable to supply moneys needed and the contractor advanced funds of his own and went ahead with the work. The club failed to reimburse him for the advances made or for the agreed fee on the amount expended, and the work was finally stopped. It is assumed that the work was stopped without fault on his part. It may be assumed also that he might have quit when it developed that the club was unable to apply funds for the continuation of the work.

Mr. Galloway answers as follows: "Mechanics' and builders' liens are

modern developments that were unknown at common law. Such matters are regulated entirely by statute, and the rights of parties extend no further than as provided by the law of the particular state in which the question arises. This was held many years ago in the case of Canal Company v. Gordon, 6 Wall. 561. It has likewise been held by the courts of most of the states (Royal Theatre Company v. Collins, 102 Ark. 533; Doll v. Young, 149 Ky. 347; Lamb v. Goldfield, 37 Nev. 9). The lien laws of California have been repeatedly construed and their various provisions held valid (Scheerer v. Deming, 15 Cal. 123; Mendenhall v. Gray, 167 Cal. 233; Gannahl v. Weimsveig, 168 Cal. 664; Rystone v. Darling, 171 Cal. 526). The California laws, therefore, are to be looked to as determinative of the rights of the parties here involved.

The California code provides that: "Mechanics, material men, contractors . . . and all persons and laborers of every class performing labor upon, or bestowing skill or other necessary service or furnishing materials to be used or consumed in . . . of any building, wharf, bridge, ditch, flume, aqueduct, well, tunnel, fence machinery, railroad, wagon road or other structure, shall have a lien upon the property upon which they have bestowed labor or furnished materials, for the value of such labor done

DEVELOP LUMBER SALES VIA RESEARCH

Research for the development of the marketing side of the lumber business was emphasized at the annual meeting of the West Coast Lumbermen's Association at Tacoma, Wash. Efficiency in production has reached a high point and the need of the hour is promotion of sales.

President J. D. Tennant in his annual address said:

"We, who can not spend 10 or 20 cents a thousand for the purpose of developing markets for our products, can pass to the buyer three nice, new \$1 bills along with each one thousand feet of our product that he takes from us. This is the penalty that we pay because we are not prepared to defend ourselves in this great war of building materials, in the mad scrap to get our share of the American dollar."

YOUNG RADIATOR ISSUES CATALOGUE

The Young Radiator Company, Racine, Wis., has published a new booklet No. H-1230, describing their complete line of unit heaters ranging from No. 162 smallest size to their No. T-2512 largest. This line includes suitable units for heating small rooms to the largest buildings and factories, with special equipment for garages, warehouses and aeroplane hangars. Both single speed motor units and multiple speed units are shown, also single motor and dual motor installations. Complete efficiency tabulations are given as well as installation diagrams on the various and complete line manufactured by this company.

BUILDING TRADES TO MEET IN OAKLAND

Oakland is preparing to welcome delegates to the 31st Annual Convention of the State Building Trades Council of California to be held in the East Bay city, commencing March 15. The Hotel Oakland will be the center of convention activities.

Contemplated legislation, unemployment, immigration, the building industry and organization, will be among the topics of discussion.

Factors responsible for the stagnation of the building industry will also be considered and methods of inaugurating building programs will be offered for consideration.

STANTON HEADS EMPLOYEES' ASS'N.

T. E. Stanton of Sacramento, engineer with the State Division of Highways, was elected president of the California State Employees' Association at the annual convention of that body in Sacramento.

Other officers elected were: Vice-president, E. J. Calkin of San Francisco; secretary, Earl W. Chapman of Sacramento, and treasurer, W. J. Byrne Jr., of San Francisco.

Members of the standing committee elected include the following: Legislation, F. J. Grumm of Sacramento; ways and means, L. A. Moisan, Paton State Hospital; civil service, F. A. Taylor of Sacramento; membership, Douglas Campbell of Los Angeles; auditing, C. E. O'Connell of San Bernardino; retirement, Kathleen McClellan of Los Angeles; law, Jess Henson of Sacramento, and publicity, E. R. Higgins of Sacramento.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1684).

R-3496-S SALESMAN, experienced mechanical, to handle all mechanical appliances for electrical companies. Good opportunity for man who will work the territory. Salary and bonus. Apply by letter. Location, Monterey County.

R-3495-S WELDING ENGINEER, young man with some technical education and skilled with welding torch, for service work for manufacturer of non-ferrous welding rods. Salary open. Location, California.

R-3487-S SALESMAN, experienced, with engineering background and training, for complete line of industrial heat control equipment. Should be acquainted in Los Angeles and San Francisco. Salary open. Apply by letter. Headquarters, San Francisco.

R-3489-S ENGINEER-SALESMAN, technical graduate, preferably mechanical with considerable diversified experience opportunity as physical testing engineer, to sell for well established manufacturer of testing machines and devices. Must be willing to travel. Compensation, drawing account and commission. Apply by letter with details and references. Territory, Middle West. Headquarters, East.

W-2205 ENGINEER, to set up a complete plant for the galvanizing of sheets and to instruct permanent staff in the operation of the plant. Practical experience in the operation of sheet galvanizing machinery essential. Knowledge of Spanish an asset, but not a necessity. Apply only by letter. Location, Mexico.

R-3491-S METALLURGIST, technical graduate, not over 35, for research department of company whose operations require the use of ferrous and non-ferrous metals. Prefer graduate metallurgist with at least 2 years' engineering experience, or mechanical engineer with post-graduate work in metallurgy. Salary \$200-300 mon., depending on experience. Apply by letter with references and photo. Location, San Francisco.

R-3470-S MECHANICAL ENGINEER preferably over 35 years old, with several years' experience as production engineer in the employment of company manufacturing farm machinery. Only this experience considered. Man will be full charge of small shop and office after demonstration of ability to produce results. Must be willing to accept small salary to start. Apply by letter with full details of experience, etc. Location, San Francisco.

R-3303-S ENGINEER, preferably mechanical or chemical graduate, with 5 to 10 years' experience including considerable application of thermodynamics to solution of heat exchange problems as found in oil refinery equipment. Must have executive ability. Apply by letter with details of experience, references and photo. Salary \$200-250 per month to start. Location, Northern California.

K-322-W-2034-C-S PROFESSOR of printing for school of industrial engineering; preferably mechanical engineering graduate with broad experience in printing. Position will involve research and application to courses in craftsmanship training. Salary \$5000 a year. Apply by letter with full details of experience, ref-

erences and photo. Location, East W-1984-C-S MECHANICAL ENGINEER, graduate for design of Diesel engines. At least 5 years' experience essential. Contract for 2 year renewable. Salary open, one-third to one-half in paper rubles for living expenses, balance in U. S. money to American bank. Applicant only by letter which will be forwarded to Moscow for decision, Location, Russia.

R-3484-S ARCHITECTURAL Draftsman, skilled in pen and ink renderings, to turn out good working drawings of simple type suitable for publication in bulletins. About 4 month work. Apply by letter with person data, salary expected and samples of work. Location, Northern California.

R-3487-S STEENOGRAPHER, with several years' experience in office of paving contractor or department of public works where she would have learned street improvement assessment and tax problems. Must have executive ability. Salary depends on experience. Apply by letter. Location, San Francisco.

R-3303-S ENGINEER, preferably mechanical or chemical graduate, with 5 to 10 years' experience, including considerable application of thermodynamics to solution of heat exchange problems as found in oil refinery equipment. Must have executive ability. Apply by letter with details of experience, references and photo. Salary \$200-250 to start. Location, Northern California.

K-340-W-2251-S REFRIGERATION ENGINEER who has had at least 5 years' experience in the preparation of specifications and design installation and servicing of refrigerating and ice making plants 1 to 100-ton capacity. Single contract with option of renewal if services are satisfactory. Salary about \$300 a month and traveling expenses to and from China. Apply by letter. Headquarters, New York.

FUTURE HOMES TO BE OF STEEL

"That the houses of the future will be built entirely of steel, equipped with automatic ventilating system and using windows only for lightness was the prediction of J. M. Schendorf of Massillon, O., a speaker at the Western Metal Congress and Western Metals and Machinery Exposition.

"Scientists have been looking 6 years for a steel that would stand the test of weather without rusting," said Schendorf. "Today they have found a perpetual metal which, in spite of rust motion, should last forever."

"It is steel mixed with chromium metal that can resist every kind of weather without showing any ill effects. It will not rust or wear."

Schendorf also declared soundproof walls would be used in steel building; to prevent the possibility of disturbing neighbors. The houses, he said will be built after the style of today stucco frames, and will be rust proof.

dispatch from Philadelphia, Paul I. Cret, architect, on Feb. 23 received the Philadelphia award, the famous civic honor. The award, a prize of \$10,000 and a scroll in an ivory case, was established in 1922 by the late Edward W. Bok, Philadelphia editor.

New orders booked during the 4th quarter of 1930, as reported to the Bureau of the Census by 31 manufacturing electrical goods, were \$155,546,657, as compared with \$217,818,078, for the 3rd quarter of 1930, a \$288,696,415, for the 4th quarter of 1929.

EFFECT OF NON-COMPLIANCE WITH LICENSE ON CONTRACTORS RIGHTS, CITED BY ATTORNEY

By Sylvester Hoffman, L. L. B., Member of Los Angeles Bar, in the Southwest Builder and Contractor

X, a contractor or subcontractor, after while his license is suspended, before receiving a license, furnishes labor, and is not paid. Within the time provided by law, he files a claim of lien, and then brings a timely action to foreclose the lien, and asks a personal judgment for any deficiency. Assuming that the defendant properly pleads the non-compliance with the "Contractors' License Act" (Chap. 791, Stats. 1929, p. 1591, seq.) which is the only defense used, can X recover? Could the result be any different if after the contract was entered into, or the work commenced, the license of X was revoked or granted? If X is a subcontractor, and had complied with the act, but Y, the general contractor, did not, would X have a valid claim lien, which he would be entitled to foreclose?

Unlawful Act Bars Claim

So far, there are no adjudicated cases directly deciding these presently problems; but the appellate courts in this state have frequently passed on similar situations, and if the case could arise, would undoubtedly hold at X could not recover.

Sections 1 and 12 of the Act make it unlawful, punishable by fine or imprisonment or both, "to engage in the business or act in the capacity of contractor," the word "contractor" including subcontractors, but not materialmen (Sec. 3), without a license, while a license is suspended. The courts have held repeatedly that where the consideration is itself void, but where the law will not nullify the contract to be made, because of the legal incapacity of one of the parties to the contract, the courts will refuse to enforce it. The contract of the other party to the contract cannot neutralize its illegal effect.

Position of the Court

A contract which is made for the purpose of furthering any act prohibited by law, or to aid or assist in any act therein, is void and unenforceable. If the plaintiff cannot open his case without showing that he has broken the law, the courts will not assist him, whatever his claim in justice may be upon the defendant. If, while as a matter of private justice between individuals, it would only be fair that one under such illegal contract should restore the consideration or pay the reasonable or agreed value for what he received, the rights of the public are superior to any such private considerations. And where a statute pronounces a penalty for an act, a contract founded on such act is void, although the statute, as in some cases, does not pronounce it void, expressly prohibit it. Thus, where a city councilman was employed by the S. Co. as sheet metal foreman, the S. Co. was not entitled to collect on a contract with the city of Stockton, although it was the best bidder, had at all times acted without good faith, and fully performed its contract, where a statute prohibited a city councilman from being "interested" in any contract, and

the violation thereof was made a misdemeanor.

Other Applications of Rule

Likewise, the courts have held since as early as 1889 that where a physician performs services without being licensed, and such act makes him guilty of a misdemeanor, he cannot collect from his patient, on grounds of public policy. The same rule has been applied, alike, to architects, pawnbrokers, and real estate brokers. The courts have gone so far as to hold that where one sells goods, without a license required by a city ordinance, which makes a violation thereof a misdemeanor, the seller cannot collect.

Furthermore, the situation is not changed if subsequent to the time the contract is entered into, a license is procured, if the doing of the act was made unlawful.

Effect of Penalty

As the supreme court of California has said, "When the object of the statute in requiring a license or certificate for the privilege of practicing a particular profession or of carrying on a certain business is to prevent improper persons from engaging in that business, or is for the purpose of regulating it for the protection of the public . . . the imposition of a penalty amounts to a prohibition, and a contract made by an unlicensed person in violation of the statute is void," and that a subsequent compliance with the statute will not cure the illegality of the previous contract.

It will be apparent, therefore, that X, whether a contractor or subcontractor, if, at the time the contract (whether oral or written) was entered into, was not licensed under the Act, or his license was suspended, cannot enforce his lien or payment of the price, even though the work was fully performed and the owner of the land secured the benefit of the work.

But if X is a licensed subcontractor, who has complied with the Act, but does the work under a subcontractor from Y, the general contractor, who has a written contract for the entire work from the owner, has he a valid, enforceable lien against the property, where Y is not licensed?

Y, being unlicensed, cannot enter into a valid contract with X, and hence the contract between X and Y is void. Generally, if the contract is not binding, the right to claim or enforce a mechanic's lien falls. So, prior to the amendment of Sec. 1183, C. C. P., in 1911, where the building contract exceeded a certain sum and was not recorded, as then provided by that section, the right of lien was held to have been lost. On the other hand, the appellate courts have generally held that any invalidity of the contract because of non-recording, under that section as then in effect, did not affect the subcontractor's right to enforce his lien.

There is also considerable doubt whether an owner might sue a non-licensed contractor for faulty work or other damages (such as wrongful abandonment of the work), even though the contractor cannot sue the owner. The solution will have to wait until such a case directly arises.

ENGINEERS OF SAN JOSE NAME COMMITTEES

William D. Lotz, consulting structural engineer, discussed "Mathematics, Engineering and Common Sense" at the regular meeting of the San Jose Engineers' Club last Tuesday.

Describing the history of mathematics, he showed how the development of engineering has depended largely upon the extension of mathematical calculations.

President Samuel Lavery, presiding for the first time since his election a week ago, announced the appointment of the following committees: Admissions, Stanley Chapman, chairman; William Ball, Robert Lotz, Bruce Bothwell, I. W. Halberg, A. V. Maliero and J. J. Byrne, Auditing; A. E. Rae, chairman; H. A. Weigand and Dan Morrison, Social sessions; W. H. MacLean, chairman; Wm. L. Popp, Roy H. Deane and Geo. Easter, Publicity; M. H. Antonacci, chairman; Mark Thomas, A. N. Christensen and Floyd Bohmet.

Attendance: Mark Thomas, chairman; W. C. Tustin, Harold Flannery, C. M. Kerr, B. H. Skillings, and Ross Van Gundy, Laws and regulations; John W. Ford, chairman; Frank Herrmann, E. C. Morrison, Welfare; Wm. D. Lotz, chairman; R. W. Fisher, P. E. Ling, Port San Jose; H. N. Bishop, chairman; M. H. Antonacci, H. C. Darling, Sports; Russell Brady, Robt. Lotz and W. H. Ball, Reception; C. M. Kerr, chairman; H. A. Weigand and A. E. Rae.

MATTOON ACT PROMPTS PROTESTS

A committee of five has been named by the San Mateo and Burlingame chambers of commerce to protest to the San Mateo County Board of Supervisors any further use of the Mattoon Act, under which proceedings were carried through for the San Bruno, Lomita Park and South San Francisco sewer district.

Members of the committee are J. E. McCurdy, F. M. Johnson, Frank Burrows, Henry Maier and T. J. Hallman.

Objections to the Mattoon Act centers around the fact that the burden of any delinquencies which may occur is thrown upon the remainder of the improvement district formed. Bonds issued to pay for improvements cannot be called in until the expiration of a 30-year period.

COLORED CONCRETE FEATURED IN BOOKLET

"Concrete Facts For Concrete Contractors," a new booklet just published for free distribution in the United States and Canada to builders, contractors and others doing concrete work around homes, schools, parks, playgrounds and industrial plants, includes the latest information on the modern methods for making quality concrete. The booklet, available on request to the Portland Cement Association, 33 West Grand Avenue, Chicago, Illinois, deals with concrete making, including facts on colored concrete, special surface finishes, forms, watertight concrete and cold weather construction. The methods described in the booklet are thoroughly practical and are being used by an increasing number of present-day contractors who are producing high quality concrete.

Associated Equipment Distributors has selected as president for 1931 Oscar B. Borge, manager of the Clyde Equipment Co., Portland, Ore.

CALIFORNIA MATERIAL DEALERS FORECAST CONSTRUCTION GAIN

That at least 40 states, including California, will share in continued large-scale highway paving and resulting employment in this year, and that a gain in residential building is expected in various regions, including several population centers, are indicated in a national survey of building dealers' forecasts for 1914.

This survey, just completed by the Universal Atlas Cement Co., a subsidiary of the United States Steel Corporation, presents replies of 2,300 dealers in 46 states to the question, "How will 1914 construction compare with 1913 construction in your community?" Replies of "less," "same," and "more" were received on eight classes of construction.

A surprisingly emphatic note of optimism for the new year was sounded by the 27 dealers replying from New York City, famed as the weather-vane of business health and supposedly one of the gloomiest spots on the present business map. More led in every classification except the irrelevant one of farm construction, and the city-wide total on all questions was "less," 25; "same," 48; and "more," 83.

Residential construction gains were predicted not only throughout New York State, but in Massachusetts, Connecticut, New Jersey, eastern Pennsylvania, Florida, West Virginia, Wisconsin, northern Illinois and California. For the entire country there were 1539 replies of "same" or "more" in this class and 768 in the other. Despite the huge road-building achievements of last year, still great-

er activity was predicted for 1914 by the dealers of 17 states, with Louisiana, South Carolina, Georgia, Massachusetts, Alabama, New Jersey, California and New York leading in the indicated degree of gain. Continued large-scale highway work was anticipated in every state except Tennessee and the sparsely-voting Rocky Mountain region.

The next greatest prospect of construction improvement was foreseen throughout the country in residential building, as noted above, and the third in farm construction, with farm gains anticipated in Indiana, Wisconsin, Iowa, Washington and Massachusetts. Then followed in the order named, public building construction; street paving; public utility construction; sewer and waterworks construction, and commercial building.

The country-wide total on all issues: "less," 5,601; "same," 7,871; and "more," 5,873, indicated that 66 per cent of the dealers answering foresee no further construction decline. Sectional optimism, as shown in the combined percentages of "more" and "same," was greatest in the New England, Middle Atlantic and Pacific States, with the Great Lakes region next, and the Northwest, South Atlantic, Southwest, and South Central states trailing.

California dealers promised large gains in residential building and highway paving; also increases in utility and public building construction. Highways led in Oregon, and commercial, residential, farm, street, and public construction in Washington.

RELATION BETWEEN RETAIL DEALER AND MANUFACTURER

Address of Ernest L. Clements of the Hayward Building Material Company at the annual meeting of the Retail Building Material Dealers Association of Northern California, in San Francisco, December 12, 1913.

While it is customary among speakers, other than political, to admit their weakness and to apologize for it at the very beginning of their talk, no excuses or alibies whatever shall come from me while dwelling upon this, my pet subject, "Relation Between Retail Dealer and Manufacturer." Your speaker firmly believes that to succeed in the business of retailing building material one must be different from most business men; that is, he must stand out—head and shoulders above the ordinary business man. We all know that the larger percentage of retail businesses barely afford its owner a decent living, let alone a real profit for his effort.

We can all agree upon the reason of our being in the retail building material business—profit—that is, a substantial profit above what we might expect from personal services. Therefore, the answer as to what constitutes success is no stranger to us. But, Gentlemen, the question that brings us all to our feet at the same time, clamoring to be heard, is the one concerning the method or principle which will keep us on the straight and narrow road leading to success.

This road, Gentlemen, is beset with many things to lead us astray. The one which causes more business failures than any other is improper financing. Over-investment in plants and equipment, as well as over-investment in receivables, have caused

heavy losses, but the biggest bogey of them all is the cost for volume. The desire for mere volume has undoubtedly played havoc with many well-organized firms. Many unthinking business men have been led to believe that volume meant profit and success. We do not have to look far to see the effect of this sort of thing.

While these matters are of weighty importance to us, we have still another that stands in the front rank, just a head taller than its fellows, although it is of times seen to occupy space in the rear rank, doing its best to appear unimportant—and that, Gentlemen, is the relation between dealer and manufacturer.

We are fully aware of the fact that either is absolutely indispensable to the other—and happily, most manufacturers share this view with us, although they are none too willing to admit this absolute dependence. This is evidenced, however, by their constant courtship. They well know that it is the steady flow of material thru the dealers that enables them to pay their overhead and operating expenses the year around. Then when a large job comes along they (that is, some of them) want to go out and sell direct to the contractors at a price which leaves us out of the picture so far as any commission is concerned. When approached about it, they revert to their ancient excuse that "the amount is too large for the dealer to handle," or "that the contractor would rather do business with them direct."

It is in this sort of business that they rely upon for their real profit, and when we are denied the privilege of participating in this business, we are denied the opportunity of sharing in a profit which is rightfully ours;

whether or not we carry the account is of no consequence, since we have already, by our daily purchases, helped that very manufacturer into position whereby he may be able to make the sale. One does not have to stretch their imagination very far to find plenty of reasons why some contractors would rather "deal direct." This practice should be vigorously opposed. It would appear that the manufacturer would be the one most interested as he certainly can see the such tactics always breed suspicion be it just or unjust. Some manufacturers have reserved the privilege to sell direct to the various political bodies. No satisfactory explanation of this reservation has ever come to the attention of the speaker. We will have this matter, as well as many other adjusted to our entire satisfaction a very short while.

In our many deliberations regarding the relation between dealer and manufacturer, we have been constant held in check by the more experienced head-beaters of the industry. Many times individuals have proposed radical solutions to vexing problems, but there has always been someone to guide us into the right channels. The result of the past two years should convince the most cynical that we are pursuing the right methods and that our plans are meeting with the approval of the manufacturers.

We have tasted the fruits of our efforts to readjust some of the views of some of the manufacturers, and if we can continue to conduct our affairs a businesslike way, meeting the manufacturer on a business basis, proposing only logical changes, we are sure of winning more success. The past year has seen us well repaid for all our efforts, but we should remember that still greater success is certain to be ours. Let us not go half-cocked, but plan deliberate every move. Let us all believe that we know our own business and that by finding it unnecessary to make apologies whatever for any speech which we might find it necessary deliver to our manufacturing friends.

CALIFORNIA HAS MOST WELDING CODE

The number of cities and towns in the United States which have adopted provision providing for the use of welding in building construction now totals 100, according to Frank P. McKibben of Black Gap, Pa., consulting engineer for the General Electric Company. Of this total, 90 have adopted welding in accordance with the Pacific Coast Building Officials Conference Code, six follow the American Welding Society's code, and 10 have adopted miscellaneous unclassified codes. The essentials of all the codes, however, are similar, and are based on the American Welding Society's "Code for Fusion Welding and Gas Cutting in Building Construction."

New Orleans is the largest city which has adopted a welding code. The tallest all-welded structure is the 19-story office building of the Dall Power & Light Company in Dallas, Texas.

California has the most cities at towns with welding codes, 67 have incorporated sections providing for welding. Oregon is second with 15 Washington has four; Arizona, Louisiana and Texas have three each. New York and Massachusetts have two each, and Arkansas, Colorado, Montana, Nevada, New Mexico, North Dakota, Delaware, New Hampshire, Alabama and Mississippi have one each.

Building News Section

APARTMENTS

Contract Awarded.
APARTMENTS Cost, \$150,000
SANTA MONICA, Los Angeles Co., Cal.—No. 1445-55 Fourth St. Four-story Class B concrete steel and brick apartments (100x100 feet).
 Owner—Arthur S. Barnes, Title Insurance Bldg., Los Angeles.
 Plans by Arthur S. Barnes
 Contractor—D. S. McEwan, 2018 Lincoln Blvd., Ocean Park.

Preparing Plans.
APARTMENTS Cost, \$—
LOS ANGELES, Cal. Wilshire - La Brea District.
 Limit height class A reinf. concrete apartments.
 Owner—Salt Lake City capitalists.
 Architect—Lyle Nelson Barcume, 4328 Normal Ave., Los Angeles.
 Will be known as the Luxor Apts. (Mr. Clamen, Mgr.)

Preparing Plans.
APARTMENTS Cost, \$100,000
LOS ANGELES, Cal. Loma Drive nr. Sixth Street.
 Four-story and basement reinf. concrete and brick apts. (60x108-ft.)
 Owner—E. E. Potter.
 Engineer—W. E. Chadwick, Union League Bldg., Los Angeles.

Sub-Contracts Awarded.
APARTMENTS Cost, \$175,000
SAN FRANCISCO, N Jackson Street
 E Gough Street.
 Six-story and basement Class C concrete apartments (26 apts.)
 Owner and Builder—E. Jose, 251 Kearny St., San Francisco.
 Architect—H. C. Baumann, 251 Kearny St., San Francisco.
 Lumber—Loop Lumber Co., Central Basin, San Francisco.
 Concrete — California Concrete Co., 1632 Steiner St., San Francisco.
 Steel — McClintic-Marshall Co., 2050 Bryant St., San Francisco.
 Reinforcing Steel—W. C. Hauck Co., 280 San Bruno Ave., San Francisco.
 Electric Work — Aetna Electric Co., 1337 Webster St., San Francisco.
 Plumbing—J. Gibbs & Son, 1796 Geary St., San Francisco.

Plans Completed.
APARTMENTS Cost, \$150,000
STOCKTON, San Joaquin Co., Cal.
 Four-story and basement Class C concrete and brick apartments (52 apts.)
 Owner—Mr. Covelecheck.
 Architect — Max Maltzman, Union Bank Bldg., Los Angeles.

Contract Awarded.
BUNGALOW APTS. Cost, \$20,000
YUBA CITY, Sutter Co., Cal. Cooper Avenue.
 One-story frame and stucco (Spanish type) bungalow apartments, 150x130-ft.
 Owner—J. C. Nason and J. H. LePine, Yuba City.
 Private plans.
 Contractor—Fred F. Anglade, Cooper St., Yuba City.
 Will contain two large and six small apartments with a court 40 by 60 ft.

BONDS

REDWOOD CITY, San Mateo Co., Cal.—At a mass meeting of interested citizens, plans were advanced for a county bond issue to secure funds to finance construction of a county auditorium to house various public festivals, including the Flower Show, etc. It was the general opinion that such a structure should be financed by a bond issue and a committee was named to report further on the project at a meeting to be held in Redwood City on March 18. Elmer A. Roberts of Burlingame is chairman of the committee in charge of the San Mateo County Auditorium Committee.

SATICOY, Ventura Co., Cal.—Saticoy school district defeated a \$115,000 bond issue on Feb. 17th, proceeds of which were to have been used for the erection of a new school building.

LOS ANGELES, Cal.—Los Angeles Board of Education has been requested by the various civic associations to call a bond election to vote \$10,000,000 for the construction of new school buildings. Board has come to no decision.

BRAWLEY, Imperial Co., Cal.—Five bond issues for public improvements amounting to \$135,000, were defeated on February 18. Projects were: \$35,000 for a new city hall; \$20,000 for a fire station and site; \$30,000 for additions to water distributing system; \$30,000 for sewer extensions; \$20,000 for new water tower and tank.

CHURCHES

Sub-Contracts Awarded.
CHURCH Cost, \$50,000
SAN MATEO, San Mateo Co., Calif.
 Filton and Ellsworth Avenues.
 One-story frame and stucco church with tile roof (auditorium to seat 350; Mission type).
 Owner—First Congregational Church.
 Architect—Kent & Hass, 525 Market St., San Francisco.
 Contractor—H. H. Larsen & Co., 64 South Park, San Francisco.
 Plumbing—J. H. Pinkerton, 927 Howard St., San Francisco.

SKILSAV Portable Electric Hand Saws (4 models).
SKILSAV Portable Electric Sander
SKILSAV Radial Arm Attachments.
SYNTRON Portable Electric Hammers (4 models, motorless).
MALL Flexible Shaft Machines (50 models).
 Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric Tools.

1248 Mission St. **UNDERHILL**
 San Francisco **7662**
SALES . SERVICE . RENTALS

Mill Work—S. H. Chase Lbr. Co., 547 W Santa Clara, San Jose.
Lumber—Sunset Lumber Co., 400 High St., Oakland.
Heating—Frank J. Klimm, 456 Ellis St., San Francisco.
Mis. Iron—Sullivan Iron Works, 750 Brannan St., San Francisco.

Preparing Plans.
SUNDAY SCHOOL Approx. \$75,000
MODESTO, Stanislaus Co., Cal.
 One- and two-story brick church and Sunday School building.
 Owner—First Baptist Church, Modesto.
 Architect—G. N. Hilburn, Elks Bldg., Modesto.
 Bids will not be called for before June.

Plans Being Completed.
CHURCH Cost, \$250,000
SAN FRANCISCO, Funston Ave. and Judah St. (120x245-ft.)
 Class A reinforced concrete church (2-000 seating capacity).
 Owner—Roman Catholic Archbishop of San Francisco, 1106 Franklin St.
 Architect—Shea and Shea, 454 Montgomery Street.
 It is expected to call for bids in about three weeks.

Plans Being Figured
CHURCH Cost, \$65,000
PITTSBURG, Contra Costa Co., Cal.
 NW Black Diamond and W Eighth Streets.
 Two-story reinforced concrete church with steel roof trusses (120x142 ft.)
 Owner—Roman Catholic Archbishop of San Francisco, 1106 Franklin St., San Francisco, a Corp. Sole (St. Peter Martyr Parish), Rev. Louis A. Nasselli, rector.
 Architect—Arnold Constable, 580 Market St., San Francisco.
 Following contractors will submit bids.

Barrett & Hilp, 918 Harrison St., San Francisco.
 S. Rasori, 74 New Montgomery St., San Francisco
 J. E. Scully, Phelan Bldg., San Francisco.
 David Paganelli, 519 California St., San Francisco.
 Victor Kaufenberg, 80 East B St., Pittsburg.
 Horace Siino, 710 Black Diamond St., Pittsburg.

Larsen & Larsen, Russ Bldg., San Francisco.
 Those: F. L. Furlong, 460 Jerome Ave., Oakland.
 George Maurer, 50 York Drive, Oakland.
 Will have full basement for Parish Hall and auditorium with seats for 700. Will have stucco finish, tile roof and be of Italian Romanesque style of architecture.

Plans Being Prepared.
CHURCH Cost, \$25,000
NAPA, Napa Co., Cal. SE Third and Pachett Sts.
 Reinforced concrete church.
 Owner—Episcopal Church, Napa.
 Architect—C. Leroy Hunt, Napa.
 Will C. Keig, Napa, is chairman of the building committee. Bids will be taken in about sixty days.

Contracts Awarded.
CHURCH Cost, \$75,000
 BERKELEY, Alameda County, Calif.
 Scenic and Le Conte Aves.
 One-story brick church (to seat 5000)
 Owner—University Christian Church.
 Architect—W. H. Ratcliff, Jr., Chamber
 of Commerce Bldg., Berkeley.
Excavation—Arliss-Knapp Co., 961 41st
 St., Oakland.
Masonry—Victory Devlght, 1828 Mill
 via St., Berkeley.
Concrete—Frank Jepson, 1721 Fran-
 cisco St., Berkeley.
Roofing—Western Roofing Co., 24th &
 Poplar Sts., Oakland.
Sheet Metal—Grady Sheet Metal W'ks
 2121 McKinley, Berkeley.
Miscellaneous Iron—Herrick Iron W'ks
 18th and Campbell Sts., Oakland,
 and Liberty Ornamental Iron W'ks
 21st and Filbert Sts., Oakland.
Plastering—Wm. Makin, 1618 Excel-
 sior St., Oakland.
Tile—Superior Tile & Products Co.,
 3743 Broadway, Oakland.
Glass—Cobbledick-Kibbe Glass Co.,
 301 Washington St., Oakland.
Electric—White Electric Co., 2305
 Shattuck Ave., Berkeley.
Carpentry—Walter Sorensen, 2940
 Piedmont Ave., Berkeley.

**FACTORIES AND WARE-
 HOUSES**

Plans Being Figured—Bids Close Mar.
 24, 2 P. M.
POULTRY BLDG. Cost, \$—
 SACRAMENTO, Sacramento Co., Cal.
 State Agricultural Park.
 One-story brick poultry building.
 Owner—State of California.
 Plans by State Department of Public
 Works, Division of Architecture,
 Geo. E. McDougall, state archi-
 tect, Public Works Bldg., Sacra-
 mento.
 The Building is one story with con-
 crete foundations and floors, brick
 walls, steel roof construction with tile
 and composition roofs. The total floor
 area is approximately 25,200 sq. ft.
 Separate bids will be entertained
 for the following segregate parts of
 the work and combinations thereof:
 1. General Work and alternate, em-
 bracing all branches of the construc-
 tion other than Plumbing and Elec-
 trical.
 2. Electrical Work and alternate.
 3. Plumbing Work and alternate.
 An alternative bid, affecting the
 general, electrical and plumbing work
 will be required for the omission of
 one bay as outlined on the plans and
 designated as Alternate "A".

Contract Awarded.
WAREHOUSE, ETC. Cost, \$30,000
 SANTA ROSA, Sonoma Co., Cal.
 Service group (warehouse, garage,
 shops, transformer house, meter
 house, pole yard, etc.)
 Owner—Pacific Gas & Electric Co., 215
 Market St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Contractor—J. B. Petersen, 4021 Agua
 Vista Ave., Oakland.
 As previously reported, grading con-
 tract awarded to Connors & Hansen,
 Santa Rosa.

Sub-Contracts Awarded.
DAIRY Cost approx. \$10,000
 SAN MATEO, San Mateo Co., Calif.
 One-story and mezzanine floor frame
 and stucco dairy bldg. (40x70-ft.;
 concrete floor, composition roof).
 Owner—Jersey Dairy Farm, 833 South
 Idaho, San Mateo.
 Plans by E. K. Dobkowitz, 424 Mont-
 erey Blvd., San Francisco.
 Contractor—Castle Bldg. Co., 830 Mar-
 ket St., San Francisco.
Concrete—Dit' & Kibbe, 290 E Sal-
 mon St., San Francisco.
Iron—Ornamental Iron Works, No e
 St., San Francisco.
Plumbing—Scott Co., 243 Minna St.,
 San Francisco.

Painting—Fournier Studios, San Fran-
 cisco.
Glass—Mutual Plate Glass Co., 1969
 Mission St., San Francisco.
Electric—Johnson Electric Co., 758
 10th Street Bldg., San Francisco.
Plastering—Concey & Co., San Mateo

Sub-Contracts Awarded.
MFG. BLDG. Cost, \$200,000
 RIFON, San Joaquin Co., Cal.
 Group of concrete, hollow tile, brick
 and corrugated iron manufactur-
 ing bldgs. (to manufacture evaporat-
 ed milk).
 Owner—Meyenberg, Inc. Solidad, Cal.
 Plans by Eng. Dept. of Owner.
 Contractor—H. H. Larsen & Co., 64
 South Park, San Francisco.
Steel Rolling Doors—Kenerson Mfg.
 Company.
Lumber and Gravel—United Lbr. Co.,
 10th St., San Francisco.

As previously reported, structural
 steel and miscellaneous iron awarded
 to Judson-Pacific Co., 609 Mission St.,
 San Francisco; steel sash to Michel
 & Pfeffer Iron Works, Harrison and
 10th Sts., San Francisco.
 There will be a pasteurizing plant,
 etc.

Sub-Contracts Awarded.
WAREHOUSE Cost, \$15,000
 FRESNO, Fresno Co., Cal. Ventura
 and H Streets.
 One-story warehouse.
 Owner—F. J. Dow, 3369 Huntington
 St., Fresno.
 Architect—Not Given.
 Contractor—W. T. Harris, 577 Mc-
 Kinley St., Fresno.
Concrete—E. K. Brostrom, Fresno.
Brick Work—J. M. Brown, Fresno.
Roofing—Valley Lumber Co., H and
 Domo Sts., Fresno.
Wiring—Bellevue Electric Co., 2439
 Belmont St., Fresno.
Miscellaneous and Structural Iron—
 Kyle & Co., 346 G St., Fresno.

Preparing Working Drawings.
HANGAR, ETC. Cost, \$65,000
 SACRAMENTO, Cal. Municipal Air-
 port.
 Steel frame and wood hangar and air
 terminal station.
 Owner—City of Sacramento, H. G.
 Denton, city clerk.
 Architect—Starks & Flanders, Forum
 Bldg., Sacramento.
 Bids will be taken in about 2 weeks.

Plans Being Figured. Cost, \$—
FACTORY
 OAKLAND, Alameda Co., Cal. Eighty-
 first Ave. near E-14th Street.
 One-story reinforced concrete factory
 Owner—Blue Bird Potato Chips, Inc.,
 68th Ave and Beck Sts., Oakland
 Architect—Charles W. McCall, 1104
 Franklin St., Oakland.
 William Spivock, Hobart Bldg.,
 San Francisco, is figuring the plans in
 place of Reavey & Spivock, previously
 reported. Other contractors previously
 reported.

SAN FRANCISCO.—Airport Com-
 mittee of the Board of Supervisors
 plans immediate construction of con-
 crete fire walls between the hangars
 at the Mills Field Municipal Airport.

Contract Awarded. Cost, \$100,000
PLANT
 LINNTON, Oregon.
 Storage and Distributing plant.
 Owner—Western Oil & Refining Co.,
 Los Angeles.
 Plans by Eng. Dept. of Owner.
Concrete—Ker & Kibbe, 290 E Sal-
 mon St., Portland.
 Construction will include a concrete
 fire wall, 250 by 15 ft., pump houses,
 garage quarters, etc., all of steel con-
 struction.

OAKLAND, Calif.—Owens-Illino
 Glass Co., bottle manufacturers, or
 erating plants in Illinois, Indiana, Ne
 Jersey, Oklahoma, Pennsylvania an
 West Virginia, and with main office
 at Toledo, Ohio, will shortly select
 site in Oakland on which it is pr
 posed to erect a \$1,000,000 plant. Thr
 sites are under consideration and a s
 election will be made shortly. It is a
 nounced by William E. Lewis, pres
 dent of the company.

BYRON, Contra Costa Co., Cal.
 Pacific Coast Silica Corp. of Califor-
 nia, is reported to be planning t
 immediate construction of a \$150,00
 plant a Byron including a sulphuric
 acid plant, with costing \$25,000 and
 sand plant costing \$125,000. The pla
 will be located near the Standard C
 sub-station at Byron. S. D. Miller (C
 Pleasanton, is reported to be a vic
 e-president of the Pacific Coast Silic
 Corp. Efforts to locate Miller i
 phone were unsuccessful.

Sub-Bids Wanted.
ASSEMBLY PLANT Cost, \$3,200,00
 SEATTLE, Wash. Duwamish Wate
 way.

Motor car assembly plant.
 Owner—Ford Motor Company.
 Architect—Albert Kahn, Inc., Detroi
 Contractor—Clinton Const. Co., 32
 Folsom St., San Francisco.
Reinforcing Steel—Pacific Coast Ste
 Co., Seattle.
Concrete Materials—Pioneer Land
 Gravel Co., Inc., Seattle.
Cement—Superior Portland Ceme
 Co., Seattle.
Testing—Pacific Testing Laboratorie
 Seattle.

Sub-bids are wanted on lumber, fa-
 and cement brick, hollow tile, sto
 work, redwood block flooring, rolli
 steel curtains, counterbalanced freig
 elevator doors, folding doors, and o
 erations, vertical sliding doors, holo
 metal work, toilet partition, orn
 ornamental and miscellaneous iron
 work, fence work, mill work, furrin
 lathing and plastering, roofing, she
 metal work, painting, glass and gla
 ing, rubber tile floors, marble wor
 tile work, terrazo, linoleum, granit
 cement roofing tile.

As previously reported, filling, r
 moval of docks and dredging award
 to Puget Sound Bridge & Dredg
 Co., Seattle; plumbing and heating, c
 tanks, gas and industrial pipes, to
 University Plumbing and Heating Co
 Seattle; railway sidings to Stillw
 Pros., Seattle; sprinkler system
 Fire Protection & Engineering Co
 Seattle; electrical work to Newhar
 Elec. Co., Los Angeles; concrete pi
 ping to McArthur Concrete Pipe Cor
 New York City.

The assembly building will be 7
 feet long, 320 feet wide with a secor
 story 100 feet by 100 feet. A concre
 dock, 500 feet long, adjoining a sto
 age warehouse, 500 feet by 100 fee
 is to be erected.

**GARAGES AND SERVICE
 STATIONS**

Contract Awarded.
SERVICE STATION Cost, \$20,000
 SAN FRANCISCO, SW Pacific Av
 and Trenton Place.
 Steel frame and concrete super ser
 vice station and garage.
 Owner—S. & G. Gump Realty Co., 2
 Post Street.
 Plans by Owner.
 Contractor—Barrett & Hilt, 918 Har
 rison St.
 Sub-bids will be taken in one weel

LONG BEACH, Los Angeles Co., Ca
 —Schertz California Edison Co., 3
 W Third St., Los Angeles, will sta
 work at once on the erection of a 1
 story, class A steel and concrete gar
 age and warehouse building at th
 corner of Hill and Perris Sts., Lon

each. Work will be handled by the owner's construction force and sub-contractors and materials purchased through its purchasing department.

repairing Working Drawings.
ERVICE BLDG. Cost, \$50,000
ALLEGIO, Solano Co., Cal. NW
 Streets and Main Sts. (130x150 ft.)
 wo-story automobile plant and service building (probably brick construction)
wner—Aeme Motor Co. (Vallejo Ford Dealers), Vallejo.
rchitect—Claude Barton, 622 Grand Ave., Oakland.
 Plans will be ready for bids about April.

GOVERNMENT WORK AND SUPPLIES

SACRAMENTO, Cal.—Until March 3, 3 P. M., under Order No. 3040-1780, ds will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County:
 (1) 1,000 ft. Wire Rope, Warrington construction, uncoated regular lay, ow steel, 5/8-in. dia. hemp center, 6 strands, 19 wires to strand, in 1 piece.
 (2) 1,000 ft. Wire Rope, uncoated, regular lay, Warrington construction, 1/2-in. dia. plow steel, hemp center, 6 strands, 19 wires to strand.

PEARL HARBOR, T. H.—See dredging, Harbor Works and Excavations," this issue. Bids wanted for 600,600 cu. yds. dredging at Naval Engineering Base, Pearl Harbor.

ib-Contracts Awarded.
ESS HALL. Cont. Price, \$18,778
ONTEREY, Monterey Co., Cal Presidio.

ven one-story frame mess hall buildings.

wner—United States Government.
ans by Construction Quartermaster, Presidio, Monterey.

nsructor—Newman & Halstead, Pacific Grove.

umbering—Patrick-The-Plumber, 296 Lighthouse Ave., Monterey.

ectric Wiring—Tice Electric Shop, 479 Alvarado St., Monterey.

ofing—Vic. Mossop, Monterey.

umber—Tynan Lumber Co., Franklin and Cortez Sts., Monterey.

ans Being Figured—Bids Close April 1, 3 P. M.

STOFFICE. Cost, \$—
QUIAM, Washington.

wner—U. S. Government.
 ans by Supervising Architect, Treasury Dept., Washington, D. C.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment noted in the following schedules, other information being available on the Navy Department Office, Harrison St., San Francisco:

Bids Open March 10
 Seattle, 1 motor driven reamer and bit cutter grinder; sch. 5150.
 Western yards, mineral oil (kerosene); sch. 5083.
 Western yards, volatile - mineral spirits paint thinner; sch. 5082.
 Mare Island, 1,000 lin. yds. artificial fiber; sch. 5163.
 Seattle, 1 motor driven shaper machine; sch. 5155.
 Mare Island, 65,000 lbs. bar rivet; sch. 5173.
 Western yards, brass and steel, bolts & nuts; sch. 5180.

Seattle, 1 motor-driven quick-change gear saw-cutting geared head lathe; sch. 5186.
 San Francisco, 1 motor-driven bending machine; sch. 5188.
 Various deliveries, motor trucks; sch. 5159.
 San Francisco, 1 motor-driven sensitive bench drill; sch. 5187.
 Mare Island, 700 fabric springs, without frame; sch. 5192.
 Mare Island, 1 motor-driven engraving machine; sch. 5184.
 Western yards, steel bolts and nuts and lag screws; sch. 5181.
 Mare Island, 1 motor-driven universal and tool grinding machine; sch. 5200.

Bids Open March 24
 Western yards, radio transmitting equipments and spares; sch. 5179.

SACRAMENTO, Calif.—Until March 3, 3 P. M., under order No. 3035-1780, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver 2 pedestal mounted search lights and 12 extra lamps for same.

The search lights shall have a lens with minimum diameter of 18-in. They shall produce an illumination intensity of not less than 9.0 foot candles at a distance of 2,000 ft. with an approximate spread of the rays of 126 degrees at this distance. The source of power is 115 volts direct current, and the lamp consumption shall not exceed 1,500 watts. Each searchlight shall be mounted and arranged for pilot house control on board ship. Each unit shall be furnished complete, including base, fittings, pilot house control, levers, resistors, one lamp, etc., and ready for installation. They shall be made of the best materials and workmanship and be similar in design to "Naxatux Incandescent Searchlight," page 291, Pac. States Cat. No. 29. Each bid shall be accompanied by a certified photo-metric curve showing that the equipment proposed to be furnished will meet these specifications.

Bids Wanted—To Be Opened Mar. 5, 11 A. M.
GARAGE. Cost, \$—
SAN FRANCISCO. Letterman Hospital.
 Convert concrete stable into garage (steel beams and steel gutters).
Owner—U. S. Government.
Architect—Constructing Quartermaster, Fort Mason.

SACRAMENTO, Calif.—Until March 3, 3 P. M., under Order No. 3037-1780, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County, small quantity of black pipe, brass tees and elbows, galvanized pipe, nipples, air cocks, valves, etc.

SAN FRANCISCO.—E. Sugarman, 362 Geary St., San Francisco, at \$100 submitted lowest bid to Constructing Quartermaster, Fort Mason, for converting the boiler in Officers' Quarters No. 3 at Fort Miley, from coal burning to gas burning.
 The only other bid was submitted by T. G. Arrowsmith Co., San Francisco, at \$177.95. Bids held under advisement.

SAN DIEGO, Cal.—Until 11 A. M., March 18, bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for the extension of expeditionary storehouse at the Naval Operating Base (Marine Barracks), San Diego. The work includes concrete filling, concrete construction, paving, hollow tile, built-up roofing and sheet metal works metal doors, windows and steel rolling doors, stucco and plaster work, woodwork and glazing, hardware, plumbing, heating, electrical and

sprinkler system. Spec. No. 6407. Plans may be obtained on application to the Bureau or to the Public Works Officer, 11th Naval District, San Diego, upon deposit of a check or postal money order for \$20, made payable to the Chief of the Bureau of Yards and Docks. A. L. Parsons, chief of bureau.

SACRAMENTO, Calif.—Until March 3, 3 P. M., under Order No. 3035-1780, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County, 6 aluminum, 6-qt. dairy pans; 6 aluminum, 5-qt. dairy pans; three "Wearever" sauce pans, 1 1/2-qt. capacity; 1 meat block, 24x24x10-in.

SACRAMENTO, Calif.—Until March 3, 3 P. M., under Order No. 3041-1780, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County, 5,000 lbs. welding rods, 3/8-in. x 14-in. long, in 50-lb. bundles.

SACRAMENTO, Cal.—Until March 4, 3 P. M., under Order No. 3034-1780, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County, miscellaneous hardware, including brass hinges, elbow catches, ornamental wrought brass hinges, files, pipe wrenches, hand taps, hammer handles, twist drills, 3 wheel barrels, etc.

SACRAMENTO, Calif.—Until March 4, 3 P. M., under Order No. 3043-1763, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver miscellaneous castings.

BOULDER CITY, Nevada—Monolith Portland Cement Co., 215 W. 4th St., Los Angeles, submitted low bid to U. S. Bureau of Reclamation at Denver at \$1.50 per bbl f. o. b. Monolith for furnishing the department with 20,000 bbls of Portland cement for use on the Boulder City project.

Plans Being Figured—Bids Close Mar. 25, 11 A. M.
SAN FRANCISCO. Presidio.
QUARTERS. Cost, \$90,000
 Fifteen double sets of non-commissioned officers' quarters (each 2-story and basement, brick construction).
Owner—U. S. Government.
 Plans by Quartermaster General's Office, Washington, D. C.

SAN FRANCISCO.—T. B. Goodwin, 2550 Divisadero St., at \$6,291 awarded contract for constructing gate posts and the Anchor Post Fence Co., 460 5th St. at \$820 awarded contract for iron fencing by Constructing Quartermaster, Fort Mason, for constructing improvements to the entrances of the National Cemetery at the San Francisco Presidio. Work involves gates, urns, etc.

Complete list of the bids published February 5.

PEARL HARBOR, T. H.—As previously reported, Ames-Will, Ltd., Pier No. 3, Honolulu, T. H., at \$203,430 submitted low bid to the Bureau of Yards and Docks, Navy Department, Washington, D. C., to erect hangar at Pearl Harbor, under Spec. No. 6215. Following is a complete list of the bids:

- (1) work complete; (2) alternate, do. Ames-Will, Ltd., Pier 9, Honolulu, T. H., item 1, \$203,430; (3) deduct \$1,200 bidder's fee for constructing gate posts.
- E. E. Black, Ltd., P. O. Box 3203, Honolulu, item 1, \$211,132.
- Marks Const. Co., Ltd., P. C. Box 497, Honolulu, item 1, \$215,000.
- Newport Contracting & Engineering Co., Lee Hall, Va., item 1, \$216,000.

W. P. Thurston & Co., Richmond, Va., item 1, \$216,000.
 J. L. Young Eng. Co., Honolulu, T. H., item 1, \$48,500.
 Walker & Olund, Ltd., 820 Pihlka St., Honolulu, item 1, \$223,600.
 Barrett & Hilp, 918 Harrison St., San Francisco, item 1, \$234,500.
 R. F. Woolly, Castle & Cook Bldg., Honolulu, item 1, \$235,000.
 Kenneth L. Colborn, 355 E. Greene St., Pasadena, item 1, \$243,000.
 Bituthlich Paving & Concrete Co., Ltd., 854 Kaahumanu St., Honolulu, item 1, \$243,346.
 M. B. McGowan, 74 New Montgomery St., San Francisco, item 1, \$249,928.
 John Hansen, P. O. Box 3044, Honolulu, item 1, \$259,900.

SAN FRANCISCO.—Until March 4, 10 A. M., under Circular No. 923-31-215, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver pipes, miscellaneous brushes, 48 galvanized ash cans, 48 Bentwood Vienna chairs, twist drills, padlocks, soaps, etc. Specifications obtainable from above.

SAN FRANCISCO.—Until March 5, 10 A. M., under Circular No. 923-31-219, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 2 surface condensers for new generators; 150 K. W. Turbo Generator and Engine Room Auxiliaries to be Westinghouse Condensers with auxiliaries or equal. The condensers will be a 1750 square foot two pass surface condenser, having a steel shell and cast iron water boxes. They will maintain a vacuum of 27-in., referred to a 30-in. barometer at the inlet when condensing 26,500 lbs. steam per hour and circulating 2750 G.P.M. of cooling water at 75 deg. F.

CONDENSER SHELL. The condensers will be of sheet steel construction, with steam inlet to be in center; 15-in. dia. The condenser supports will be of steel, welded to the condenser side. A round top opening will be provided as a steam inlet and other openings for the removal of air and condensate will be provided. Steam baffles will be installed.
 The water chambers and manhole covers will be made of close grain cast iron, braced and ribbed to withstand the stresses of marine service. Zinc plates with spacers, will be bolted to the manhole covers, in each water box to prevent galvanic action on tubes and plates.

The tube hanks and shells shall be so designed that the difference in pressure between the steam inlets and air outlets will be a minimum. A suitable baffle will be provided which will segregate a bank of tubes sufficient to effectively cool the air and other non-condensable vapors.

TUBE PLATES. The tube plates are to be of Muntz metal not less than 1-in. in thickness and bolted to the shell independent of the water boxes so that the joint need not be disturbed when water boxes are removed for testing condenser. Suitable tube support plates, drilled and chambered will be provided.

TUBES. The tubes are to be Admiralty metal cup drawn of Scovel Mfg., or equal; not less than 3/4-in. outside dia. No. 16 E.W.G. 9 ft. active length. The tubes will be expanded into tube plate at one end, and packed with John Crane metallic packing at other end.

CIRCULATING PUMPS. For the Condensers; a suitable horizontal or vertical propeller type turbine driven circulating pump, 2750 G.P.M. capacity with 18 ft. total head, including condenser friction, will be furnished.

The propellers will be of bronze, mounted on steel shafts and covered with bronze sleeves which will effec-

tively protect the shafts from the erosive or corrosive action of salt water.

CONDENSATE PUMPS. Two condensate pumps of 2000 lbs. per hour capacity each against 84 ft. total head including vacuum will be furnished for each condenser. These pumps will be driven by a steam turbine to be vertical.

AIR REMOVAL EQUIPMENT: For the condensers, two stage air ejectors mounted on combined surface inner and after condenser shall be included. The second stages will take suction from the inner condenser and discharge to the after condenser.

The two stage ejectors shall be of suitable capacity for adequately taking care of leakage into the condenser systems, under normal conditions, thus providing a complete spare equipment. The inner and after condensers will be 4 pass, suitable for circulating condensates, but shall have a raw water section in the inner condensers, for use at low loads on the turbine units.

The ejectors shall be suitable for use with steam and from the main steam headers at a pressure of 200 lbs. and many reducing orifices or valves required shall be furnished with the ejectors.

A horizontal Pack Pressure exhaust valve, 12-in., similar to Crane Pack Pressure valve, No. 4387, will be furnished with each.

HALLS AND SOCIETY BUILDINGS

Preparing Preliminary Plans.
 MEMORIAL. Cost approx. \$30,000
 VACAVILLE, Solano Co., Cal.
 One-story and basement Veterans' Memorial Building.
 Owner—County of Solano.
 Architect—Kent & Haines, 325 Market St., San Francisco.

Sub-Bids Wanted.
 MEMORIAL BLDG. Cost, \$65,000
 HAYWARD, Alameda Co., Cal. (Kolze Property), Main Street.
 One-story reinforced concrete Veterans' Memorial Building (Spanish type).
 Owner—County of Alameda.
 Architect—H. H. Meyer, Kohl Bldg., San Francisco.
 A. Frederick Anderson, 1093 Longridge Road, Oakland, general contractor, desires sub-bids in connection with this project for which general contract bids are to be opened March 3, 10:30 A. M.

PITTSBURG, Contra Costa Co., Cal.—Pittsburg Lodge of Masons has purchased two lots in School street, opposite the new high school, on which it is proposed to erect a modern lodge hall. Site is 90 by 90 ft. Construction of the building, however, will not be undertaken for at least two years unless other fraternal organizations can be induced to lease quarters in the structure which would permit early erection. The Masons have about \$3,000 available for the building, which is to cost approximately \$25,000.

Plans Being Prepared.
 ATHLETIC BLDG. Cost, \$100,000
 MODESTO, Stanislaus Co., Cal.
 Athletic and aquatic building.
 Owner—Withheld.
 Architect—G. N. Hilburn, Elks Bldg. Modesto.

HOSPITALS

OAKLAND, Calif.—Simon Mattress Co., 1777 Yosemite Ave., San Francisco, awarded contract by county supervisors to furnish 150 mattresses for tubercular unit at Fairmount Hospital.

Contract Awarded.
 HOSPITAL. Cont. price, \$60,522
 COLUSA, Colusa Co., Calif. County Hospital Grounds.

One- and two-story reinforced concrete hospital (1-story wing and 2-story administration building).
 Owner—County of Colusa.
 Architect—Otto Deichmann, 110 Sutter St., San Francisco.
 Contractor—Azevedo & Sarmiento, 920 S. Sacramento.

Only the first unit, having a 24-bed capacity, will be undertaken at this time. The structure, when completed will have a capacity of 100 beds.

LOS ANGELES, Cal.—J. W. Jean 6778 Hollywood Blvd., was awarded contract by Los Angeles County Supervisors at \$304,475, for plastering for the new Acute Unit of the Los Angeles General Hospital. Bids were opened Feb. 16. The bid was: Unit No. 2, \$77,000; Unit No. 3, \$136,581; Unit No. 4, \$60,662; Unit No. 5, \$30,132. The sub-contractors are:
 Lime—Oro Grande Lime & Stone Co.
 Hardwall Plaster—U. S. Gypsum Co.
 Hydrated Lime—Oro Grande Lime & Stone Co.
 X-Ray Protection Plaster—Blue Diamond Co.

ORNAMENTAL WIRE AND IRON WORK

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VISALIA, Tulare Co., Cal.—County grand jury, in annual report to the supervisors, recommends construction of a modern county detention home, structure costing \$25,000 is advocated.

Remlin Plans Being Prepared.
OSPITAL, Cost, \$12,000
AKEPORT, Lake Co., Cal.
 ne-story frame and stucco hospital (8 beds).
 vner—Lakeport Hospital (Dr. Chas. Craig in charge).
 architect—William Herbert, Rosenberg Bldg., Santa Rosa.

missions To Prepare Plans.
AUNDREY Cost, \$50,000
ALMADGE, Mendocino Co., Calif.
 State Hospital.
 undry building.
 vner—State of California.
 architect—Chas. E. Perry, 417 Sacramento St., Vallejo.

ans To Be Prepared
DITION Cost, \$17,000
KLAND, Alameda Co., Cal. 18th and Poplar Streets.
 ddition to detention home.
 vner—County of Alameda.
 architect—H. H. Meyers, Kohl Bldg., San Francisco.

VISALIA, Tulare Co., Cal.—Tulare county grand jury has recommended a construction of a detention home Visalia to cost \$25,000

ib-Contracts Awarded.
ARD Cont. Price, \$41,455
ALAMAGE, Mendocino Co., Cal.
 State Hospital Grounds.
 ard No. 7, consisting of six one-story dormitories and connecting arcade; reinforced concrete construction (total floor area 10,000 sq. ft. with arcade space of 4000 sq. ft.)

vner—State of California.
 architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.
ntoractor—A. Nelson, 242 Ocean Ave. San Francisco.

umber—Ukiah Farmer Club, Ukiah.
ll Work—Electric Flaming Mill, Hazelton and Monroe Sts., Stockton
ofing—W. J. Porter, 1473 W-San Carlos Sts., San Jose.

el Sash—Detroit Steel Products Co., Hunter Dulin Bldg., San Francisco.
astering—S. Mazzanini, 3023 Buchanan St., San Francisco.
ncoring Steel—Concrete Engineering Co., 1280 Indiana St., S. F.
ss—East Eay Glass Co., 621 6th St., Oakland.

s previously reported, plumbing and piping awarded to Ukiah Plumbing Heating Co., Ukiah, at \$1717; electrical work to Decker Elec. Constr., 533 Bryant St., San Francisco, at \$6.

is Opened
YS' BLDG. Cost, \$—
HITTER, Los Angeles Co., Cal.
 State School Grounds.
 o-story brick boys' building
 vner—State of California.
 architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.

The building is a two-story brick structure with frame interior construction and tile roof. The total floor is approximately 8500 sq. ft. Following are three lowest bidders all portions of the work:
General Work

Gene B. Foster, Los Angeles, \$25,082
 Harry Friedman, Los Angeles, 25,200
 Campbell Constr. Co., L. A., 25,585

Electric Work
 Albright Elec. Co., Long Beach, \$ 797
 R. R. Jones Elec. Co., L. A., 1355
 W. H. Smith, Long Beach, 1390
Mechanical Work
 Cooney & Winterbottom, L. A., \$5069
 K. B. Blmit, Los Angeles, 6079
 J. Hokom 6255
 Bids held under advisement

Plans Being Figured—Bids Close Mar. 10, 11 A. M.
ALTERATIONS Cost, \$—
MERCED, Merced Co., Cal. County Hospital Grounds.
 Alterations and repairs to county hospital.

Owner—County of Merced (P. J. A. Thornton, county clerk).
Engineer—W. E. Bedesen (county surveyor), Merced.
Bids are wanted for:
 (1) Changes in electric wiring at hospital;
 (2) Remodel main hospital kitchen and porches;

(3) Construct Isolation Ward.
 Bids will be received separately on the Isolation Ward for the different parts of the work as follows:
 For excavating, concrete, masonry, all carpentry work, sheet metal work and tile roof, with alternates.

Contract No. 2
 For plumbing, gas fitting, sewerage, etc., with alternates.
Contract No. 3
 For steam heating, with alternates.
Contract No. 4
 For Plastering inside and outside.
Contract No. 5
 For painting.

Contract No. 6
 For linoleum floors.
 Certified check 10% payable to the Chairman of the Board of Supervisors required with bid. Plans obtainable from W. E. Bedesen, engineer, on deposit of \$10, returnable.

HOTELS

St Purchased—Plans To Be Prepared
ADDITION Cost, \$—
NOV., Nev. Lake and second Sts.
 Three-story brick on concrete addition to hotel (site 33x140-ft.)
Owner—Pincolini, Bros., Mizpah Hotel, Reno.
 Architect—Not Yet Selected.

Working Drawings Being Prepared.
HOTEL Cost, \$100,000
LAKEVIEW, Oregon.
 Four-story and basement mill construction hotel (60 rooms; 70 by 100 ft.)
Owner—Syndicate of local businessmen—organized to finance.
Architect—J. W. DeYoung, 3502 Salmon St., Portland.

ICE AND COLD STORAGE PLANTS

Plans Being Prepared.
PLANT Cost, \$50,000
ORANGE, Orange Co., Cal.
 Two-story and basement brick pre-cooling plant (85x120-ft.; storage capacity of 60 cars).
Owner—Orange Mutual Citrus Assn., L. F. Finley, Mgr., W Almond St., Orange.
Architect—J. G. Vrydagh, 505 S Birch St., Santa Ana.

Contract Awarded.
PLANT Cost, \$30,000
TUSTIN, Orange Co., Cal.
 Two-story and basement class A reinf. concrete precooling plant (80x50).
Owner—Justin Hills Citrus Assn.
 Plans by York Ice Machinery Corp.
Contractor—Jules W. Markel & Sons, Builders' Exchange Bldg., Santa Ana.

Precooling System—York Ice Machinery Corp., 5051 Santa Fe Ave., Los Angeles.

POWER PLANTS

PASADENA, Cal.—Until 11 A. M., March 16, bids will be received by the Pasadena city directors for the construction and installation of one complete steam turbine electric generator unit with appurtenances to be erected at the power plant at Glenarm St. and Raymond Ave.

Proposals are requested for the construction and installation of a said steam turbine electric generator unit as follows:

Item 1. One 25,000 k w. 16,500-volt, 3-phase 50-cycle steam turbine electric generator unit and appurtenances, to operate with steam at 400 lbs. per sq. in. gauge pressure, and 750 deg. F. total temperature at the throttle, and 28-in. Hg. vacuum (referred to 30-in. Hg. barometer) at the exhaust.

Item 2. Alternative to Item 1.
 Part 1. One 25,000 k. w., 11,000-volt 3-phase 50-cycle steam turbine electric generator unit and appurtenances, including 3 single phase auto transformers with taps to raise the generator voltage to the substation high line voltages of 15,500, 15,750 and 15,000. The steam turbine prime mover will operate at 400 lbs. per sq. in. gauge pressure and 750 deg. F. total temperature at the throttle, and 28-in. Hg. vacuum (referred to 30-inch Hg. barometer) at the exhaust.

Part 2. Alternative to Part 1 of Item 2. Same as Part 1 except for one 3-phase auto transformer is substituted for the three single phase auto transformers.

Item 3. One complete set of extra blading for the spindle and for the case together with the proper packing tools to be used on the said steam turbine electric generator unit described in Item 1 or Item 2.

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All bids shall be in duplicate.
 All bids must state the total lump sum price for each item on a detach part thereof. Local cars at the city's Union Pacific Railway siding, Pasadena, Cal. The bidder must state in his proposal the time after the date of the contract (which shall also be the date of the award) within which he guarantees delivery of said steam turbine electric generator equipment and appurtenances will be made. The bidder shall also state the correct shipping weight of equipment specified under each item. No telegraphic proposals will be considered.
 Certified check 10%. Bessie Chamberlain, city clerk.

DENVER, Colo.—Until 2 P. M., Mar. 10, bids will be received by the U. S. Bureau of Reclamation, 1441 Welton St., Denver, for furnishing equipment as follows:

- (1) Switchboard and auxiliary apparatus, complete;
 - (2) 500-KV-a. transformers;
 - (3) 333-KV-a. transformers;
 - (4) 200-KV-a. transformers;
 - (5) 36,500-volt lightning arresters;
 - (6) Outdoor switching and metering equipment;
 - (7) 34,500-volt air-break switches;
 - (8) Disconnecting switches;
 - (9) Combined expulsion fuse and switches;
 - (10) 300-volt lightning arresters;
- Bids will be received for combination any two or more items.

SAN FRANCISCO, Cal.—Following is a complete list of the bids received by Regents of the University of California, Berkeley, for the distribution system for electricity and steam and air on the San Francisco Campus of the University of California, Parnassus and Third Aves.:

- (a) Electric; (b) steam; (c) total.
 - Thomas C Douglas, 557 Market St. (a) \$28,700; (b) \$24,540; (c) \$52,240.
 - Chas. A. Langlais: (a) \$26,400.
 - The Turner Co.: (a) \$29,300; (b) \$25,726; (c) \$54,785.
 - Alta Electric Co.: (a) \$29,300; (b) \$26,000; (c) \$55,300.
 - C. Dudley De Velbiss: (a) \$28,657; (b) \$29,500; (c) \$58,177.
 - Butte Electric Mfg. Co.: (a) \$28,600; (b) \$31,000; (c) \$59,600.
- Bids held under advisement.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

VENICE, Los Angeles Co., Cal.—Venice civic organization will start the circulation of petitions this week requesting the Los Angeles city council to call a bond election to provide \$195,000 for the erection of a community building in Venice.

CARSON CITY, Nev.—Nevada legislators are considering a bill to provide \$105,000 to finance erection of a Nevada State Library and Supreme Court Building in the vicinity of the state capitol. A site for the structure is to be donated by the county.

SAN JOSE, Santa Clara Co., Cal.—Architect Ernest Curtis, a member of the architectural firm of Binder & Curtis, 35 W-San Carlos St., San Jose, has prepared preliminary sketches for the proposed San Jose Civic Center Project. The general layout provides for the various county buildings including courthouse, law library and county library, a city hall, U. S. Post Office and civic auditorium in the area from Third to San Pedro Sts. and from St. John to St. James Sts.

LOS ANGELES, Calif.—Rolland A. Vandergrift, State Director of Finance announces that Architect J. C. Austin, Chamber of Commerce Bldg., appointed to prepare plans for two wings to be added to new state office building under construction at First and Spring Sts. Est. cost of the additions is \$650,000. Mr. Austin designed building now under construction and Weymouth Crowell Co., 2104 E 15th St., general contractor.

SAN JOSE, Santa Clara Co., Cal.—City Council plans to use surplus bond funds to finance the following construction:
 \$12,000 for new firehouse in the Hester District;
 \$9000 for a field house and comfort station at Backesto Park;
 \$19,600 for purchase of land and erection of corporation yard buildings;
 \$24,000 for painting and repairing firehouses.
 John J. Lynch is city clerk.

Plans Being Figured—Bids Close Mar. 19, 10 A. M.

JAIL. Cost, \$110,000.
 SALLINAS, Monterey Co., Cal.
 Two-story reinforced concrete jail. Owner—County of Monterey.
 Architect—Reed and Corlett, Oakland Bank of Savings Bldg., Oakland.
 Bids are wanted for:

- (1) Complete building, less jail equipment, but including plumbing, heating and ventilating and electrical work.
 - (2) Complete building, less jail equipment, plumbing, heating and ventilating and electrical work.
 - (3) Combined proposal on plumbing, heating and ventilating.
 - (4) Proposal for electric work.
- Separate bids will be received for the jail equipment.

Plans obtainable from Reed & Corlett, architects, 1301 Oakland Bank Bldg., Oakland, and from the County Surveyor at Sallinas on deposit of \$20, returnable.

Provide for a cell block accommodating 48 prisoners, eight prisoners to be housed in each cell. Additional cell blocks will have accommodations for 20 vagrants and eight trustees. Two cells will be devoted to insane prisoners, one of these being padded. Accommodations will also be provided for eight boy prisoners.

Bids Opened. Cost, \$—
 LIBRARY. Cost, \$—
 OILDALE, Kern Co., Cal.
 One-story brick branch library, 60x 27-ft.; tile roof.
 Owner—County of Kern, F. E. Smith, county clerk.
 Architect—Edwin J. Symmes, Haberfelds Bldg., Bakersfield.
 Spanish type of architecture, brick construction, plaster exterior, tile roofing, wood and cement floors, etc.
 Following is a complete list of the bids received, all bidders of Bakersfield:
 Carl H. Peterson.....\$7,975
 Opperman and Hullett.....7,956
 W. A. Croft.....5,000
 Currie & Dulgar.....8,230
 F. W. Foytner.....4,400
 Clark Gramling.....8,849
 F. L. Gribble.....8,953
 August Zimmerman.....9,258

POSITION WANTED

STENOGRAPHER Bookkeeper, desires position with Architect or Contractor. Experienced in Building Construction, General Contracting and Architectural Work. Phone Fillmore 7211—Miss Madden

STOCKTON, San Joaquin Co., Cal.—County supervisors are considering the erection of a new county jail to replace the present quarters. It is probable that the matter will be further considered at the next meeting of the board.

RESIDENCES

Plans Being Completed. Cost, \$500
 RESIDENCE. Cost, \$500
 SANTA CRUZ, Santa Cruz Co., Cal.
 One-story and basement frame residence (8 rooms).
 Owner—Santa Cruz County Hospital, Santa Cruz.
 Architect—L. D. Esty & McPhetres, Alta Bldg., Santa Cruz.
 Rustic exterior and plaster interior.

Segregated Bids Being Taken. ALTERATIONS. Cost, \$500
 SAN FRANCISCO. Location withheld. Alterations and additions to two-story and basement frame and stucco residence.
 Owner—Withheld.
 Architect—George Cantrell, 45 2nd St.
 Segregated bids are being taken from a selected list of contractors.

Plans Being Prepared. RESIDENCE. Cost, \$12,000
 SANTA CRUZ, Santa Cruz Co., Cal.
 One-story and basement frame and stucco residence (7 rooms and bath); English type; tile or slate roof.
 Owner—L. Bowman, Santa Cruz.
 Architect—L. D. Esty & McPhetres, Alta Bldg., Santa Cruz.
 Bids will be called for about March 4th.

Sub-Bids Being Taken. RESIDENCE. Cost, \$650
 SAN FRANCISCO. Prague Street & Geneva Ave.
 One-story and basement frame and stucco residence (5 rooms).
 Owner and Builder—H. W. Petersen, 912 Geneva Ave.
 Architect—Withheld.
 Tile and composition roofing, gas and hot air heating system.

Sub-Contracts Awarded. RESIDENCE. Cost, \$—
 SAN FRANCISCO. St. Francis Wood
 Two-story and basement frame and stucco residence (9 rooms).
 Owner—Dr. S. J. Hunkin, 1155 Bush St., San Francisco.
 Architect—Henry H. Gutterson, 529 Powell St., San Francisco.
 Contractor—G. P. W. Jensen, 320 Market St., San Francisco.
 Excavation—Sibley Grading & Teaming Co., 165 Landers St., S. F.
 Reinforcing Steel—Gunn, Carle & Co., 444 Market St., San Francisco.
 Concrete—Louis Sartorio, 1817 Filbert St., San Francisco.
 Other awards will be made shortly.

Contract Awarded. RESIDENCE. Cost, \$12,000
 HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and stucco residence (8 rooms and 5 baths; shingle roof, gas heating system).
 Owner—W. G. Hunt.
 Architect—Pring & Lesswing, 605 Market St., San Francisco.
 Contractor—William Short, 2121 Waverly St., Palo Alto.

Bids To Be Taken Shortly. ALTERATIONS. Cost. Approx. \$15,000
 SAN FRANCISCO. Pacific Ave., bet. Presidio Ave. and Walnut St.
 Alterations to residence.
 Owner—Ralph Lyon.
 Architect—Warren Ferry, 260 California St., San Francisco.
 Bids will be asked in one week.

Bids Wanted
RESIDENCE Cost \$—
SAN FRANCISCO Location withheld
One-story and basement frame and
stucco residence (4 rooms).
Owner and Builder—H. Weiner, Room
402, 1182 Market St.

Plans by Owner.
Bids are wanted on a general contract and on segregated bids basis as follows: Cement, carpentry, electric work, mill work, plumbing, lumber, heating, roofing and plastering.

Sub-Contracts Awarded.
RESIDENCE Cost, \$20,000
OAKLAND, Alameda Co., Cal. North
Broadway E Country Club Drive.
Two-story and basement frame and
stucco residence (8 rooms and 3
baths.)

Owner and Builder—A. H. Feasey, 210
Clara St., San Francisco.
Architect—Masten & Hurd, Shreve
Bldg., San Francisco.

Grading—Aiss Knapp Co., 961 41st St.,
Oakland
Lumber—Sunset Lumber Co., 400 High
St., Oakland.

Sub-bids are wanted on sheet metal,
painting and tile work.

Contract Awarded
RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Cal. Prospect
Avenue.
Two-story frame and stucco residence.
Owner—Dr. J. Murphy, 335 Foothill
Bldg., Oakland

Plans by Irwin M. Johnson, 2215 7th
Ave., Oakland.

Contractor—J. J. Thorup, 227 Main
St., Hayward
Hot water heating system.

Sub-Figures Being Taken.
RESIDENCE Cost, \$10,000
SAN FRANCISCO Monterey Heights
Two-story and basement frame and
stucco residence (8 rooms and 3
baths).

Owner and Builder—J. W. Stanley, 467
Turk St., San Francisco.
Architect—Not Given.

Tile and composition roof, hot air
and gas heating system.

Contract Awarded.
RESIDENCE Cont. price, \$23,376
WATSONVILLE, Santa Cruz Co., Cal.
Two-story and basement frame, stucco
and brick residence (11 rooms and
3 baths).

Owner—J. E. Porter, Watsonville.
Architect—A. W. Story, Pajaro Valley
Bank Bldg., Watsonville.
Contractor—Wm. Radtke, Gilroy.

Following is a complete list of bids:
William Radtke, Gilroy, \$22,376.
H. H. Larsen, San Francisco, \$25,-
000.
T. H. Rosewall, Watsonville, \$26,-
568.
G. M. Latta, San Jose, \$26,947.
F. T. Wallstrum, Watsonville, \$27,-
010.

Construction Postponed.
RESIDENCE Cont. Price, \$15,200
SACRAMENTO, Sacramento Co., Cal.
Two-story and basement frame and
stucco residence (10 rooms and 3
baths).

Owner—J. L. Mayden, Sacramento.
Architect—Starks & Flanders, Forum
Bldg., Sacramento.
Contractor—Azevedo & Sarmiento, 929
O St., Sacramento.

Plans Being Prepared.
RESIDENCES Cost, \$10,000 each
SACRAMENTO, Sacramento Co., Cal.
Location Withheld.

Two two-story frame and stucco resi-
dences (7 rooms each).

Owner—Withheld.
Architect—Harry Devine, California
State Life Bldg., Sacramento.

Plans Being Prepared.
ALTERATIONS Cost, \$4000
WALNUT CREEK, Contra Costa Co.
Alterations and additions to frame and
stucco residence (add two rooms
and baths, etc.)
Owner—J. K. Lockhead, Walnut Creek
Architect—W. E. Milwain, Pacific
Bldg., Oakland.

Work involves tile work, case work,
concrete foundations, cement work,
etc.

Plans Being Prepared.
RESIDENCE Cost, \$5000
STOCKTON, San Joaquin Co., Cal.
One-story and basement frame and
stucco residence (5 rooms).
Owner—W. H. Griffin, Stockton.
Architect—Victor Galbraith, Elks
Bldg., Stockton.
Shingle roof, gas heating system.
Bids will be taken in about two weeks

Contract Awarded.
RESIDENCE Cost, \$31,867
WATSONVILLE, Santa Cruz Co., Cal.
Two-story and basement frame, stucco
and brick residence (12 rooms and
4 baths).

Owner—W. E. Cockroft, Watsonville.
Architect—A. W. Story, Pajaro Valley
Bank Bldg., Watsonville.

Contractor—Wm. Radtke, Gilroy.
Following is a complete list of bids:
William Radtke, Gilroy, \$31,867.
G. W. Latta, San Jose, \$34,677.
T. H. Rosewall, Watsonville, \$35,000.
H. H. Larsen Co., San Francisco,
\$36,000.
F. T. Wallstrum, Watsonville, \$36,-
410.

Preparing Working Drawings
BUNGALOW COURT Approx. \$45,000
SAN CARLOS, San Mateo Co., Cal.
One-story frame and stucco bungalow

Owner—Withheld.
Architect—Ernest Norberg, 580 Mar-
ket St., San Francisco.

Bids will be taken in about two
weeks.

Plan Being Prepared.
RESIDENCE Cost, \$4000
OAKLAND, Alameda Co., Cal. 80th
Ave. near Foothill Blvd.

One and one-half-story frame and
stucco residence (6 rooms).
Owner—C. P. Lodge, 749 Collier St.,
Oakland.

Plans by Ralph Wood, 1197 Foothill
Bldg., San Leandro.

SANTA MARIA, Santa Barbara Co.,
Cal.—Doane Bldg. Co., Santa Maria,
has been awarded a contract for the
erection of a 2-story, 11-room, frame
and stucco residence at 214 Camino
Colegio St. from Dr. Chas. G. Baird;
cost \$10,650.

SCHOOLS

Plans Being Figured—Bids Close Mar.
5th.
SCHOOL Cost, \$100,000
ALHAMBRA, Los Angeles Co., Cal.
Emory Park School Site.

Two-story and basement reinf. con-
crete and brick school (200x114-
ft.; 16 classrooms).

Owner—Alhambra City School Dist.
Architect—Richard O. Farrell, 11 S
2nd St., Alhambra.

Plans Being Prepared.
DORMITORY Cost, \$—
MENLO PARK, San Mateo Co., Cal.
One-story reinforced concrete dor-
mitory (for boys).

Owner—Menlo School (L. S. Howard
in charge), Menlo Park.

Architect—Birge M. Clark, 310 Univer-
sity Ave., Palo Alto.

Plans Approved—Bids To Be Asked
Shortly.

ADDITION Cost, \$55,000
MADERA, Madera Co., Cal.
Class C brick addition to high school.
Architect—Davis-Pearce Co., Grant &
Weber Sts., Stockton.

Plans provide for modernizing
clock and electric lighting system in
the old structure and the remodeling
of some of the classrooms in the top
floor into a study hall.

Trustees of the district at a recent
meeting voted to ask bids for con-
struction on the segregated basis.

ONTARIO, San Bernardino Co., Cal.
—Chaffey Union High School District
will consider plans at the next meet-
ing of the Board for the construction
of the second unit at Chaffey Junior
College. Cost, \$110,000. Allison &
Allison, 1905 California Reserve Bldg.,
Los Angeles, architects.

SAN FRANCISCO—C. F. Weber &
Co., 2nd and Mission Sts., at \$5.14
each, awarded contract by City Pur-
chasing Agent, under Proposal No.
673, to furnish 124 opera chairs for
Choral Room in the Francisco Junior
High School.

Plans Being Completed.
SCHOOL Est. cost, \$180,000
SAN FRANCISCO, Claremont Blvd.
and Taraval Street.

Two-story class B reinforced concrete
school building.

Owner—City and County of San Fran-
cisco.
Architect—Dodge Rely, Pacific Bldg.,
San Francisco.

Plans will be completed in about 3
weeks.

MARTINEZ, Contra Costa Co., Cal.
—Until March 5, 7 P. M., bids will
be received by P. D. Butcher, clerk,
Alhambra Union High School District,
to furnish plants and materials for
planting and improvement of the high
school grounds. Certified check 10%
payable to clerk of district required
with bid. Specifications obtainable
from clerk.

Commissioned To Prepare Plans.
SCHOOL Cost, \$70,000
SANTA BARBARA, Santa Barbara
Co., Calif. State Teachers' Col-
lege.

Training school.
Owner—State of California.
Architect—Wm. E. Edwards, 20 East
Figueroa St., Santa Barbara.

Commissioned To Prepare Plans.
SCHOOL & GYM Cost, \$46,000
ELBRIDGE, Sonoma Co., Cal. So-
нома State Home.
School and gymnasium.
Owner—State of California.
Architect—Powers and Ahnden, 605
Market St., San Francisco.

FAIRFIELD, Solano Co., Cal.—Until
February 27, 4 p. m., bids will be
received by E. L. Dearborn, clerk, Ar-
mitajo Union High School District, to fur-
nish and install opera chairs in the
auditorium and balcony of high school.
Specifications on file in office of Prin-
cipal at high school and at the office
of W. E. Coffman, architect, Forum
Bldg., Sacramento. Certified check 10
per cent payable to Secretary of the
Board of Education of the Armitajo Union
High School District, required
with bid.

Preparing Preliminary Plans.
LIBRARY Cost, \$117,000
CHERRY, Butte Co., Cal. State Teach-
ers' College.

Library and classroom building.
Owner—State of California.
Architect—Chester Cole, First Nat'l
Bank Bldg., Chico

Contracts Awarded.
 GYMNASTIUM, ETC. Cost, \$—
 MONTEREY, Monterey Co., Cal.
 One-story reinforced concrete academic building with the roof.
 Owner—Monterey Union High School District.

Architect—Swartz & Ryland, Spazier Bldg., Monterey.

Lathing and plastering bids held under advisement. Cafeteria equipment bids deferred. New bids are now being taken on the brick work.

General Work—M. J. Murphy, Carmel 334,052.

Milk Work—Union Supply Co., Monterey, \$3869.

Oak Floors—Oak Floor Co., San Francisco, \$1233.

Linoleum—Rudolph Furniture Co., Pacific Grove, \$3,133.74.

Toilet Partitions—Abtross Co., San Francisco, \$298.

Ornamental Tile—C. L. Frost Co., Monterey, \$1768.

Blackboards—C. F. Weber & Co., San Francisco, \$978.

Painting—Raphael Co., San Francisco, \$2452.

Plumbing—Anderson & Dougherty, Salinas, \$6,446.60.

Heating—Anderson & Dougherty, Salinas, \$4685.

Sheet Metal—Yosmer Sheet Metal Works, \$1,141.75.

Ventilating—Anderson & Dougherty, Salinas, \$345.

Glass and Glazing—East Bay Glass Co., Oakland, \$749.

Venetian Blinds—C. F. Weber Co. San Francisco, \$1162.

Roofing—Tynon Roofing Co., Monterey, \$5100.

Miscellaneous and Ornamental Iron—C. J. Hillard Co., San Francisco, \$1260.

Electric—W. H. McConnell, Monterey, \$10,354.

Electric Equipment (R. C. A.)—Tice Electric Shop, Monterey, \$2,739.87.

Electric Wiring (For R. C. A. Equip.)—Tice Elec. Shop, Monterey, \$2,640.13.

Steel Equipment—C. J. Hillard Co., San Francisco, \$2370.

Preparing Preliminary Plans
 SCIENCE BLDG. Cost, \$202,000
 SAN JOSE, Santa Clara Co., Cal.
 State Teachers' College Grounds.
 Fireproof Science Building.
 Owner—State of California.
 Architect—Ralph Wyckoff, Growers Bank Bldg., San Jose

CLAREMONT, Los Angeles Co., Cal.—
 Norton School of Claremont, Frank Sleeper, headmaster, 137 W. Seventh St., Claremont, is conducting campaign to raise \$150,000 for school improvements. \$75,000 would be used for erection of new main building at southwest corner of Monte Vista and Miramar Aves.

Plans Being Prepared
 LECTURE HALL, ETC. Cost, \$—
 SANTA BARBARA, Santa Barbara Co., Cal. Old Hope Ranch.
 Three-story reinforced concrete main building (526x44 feet); chapel to seat 250; reflectory to seat 250; library and lecture hall.
 Owner—Theologate of the Society of Jesus.
 Architect—Dougan & Reverman, Kraemer Bldg., Portland, Oregon.

Plans Being Figured—Bids Close March 4, P. M.
 ADDITION Cost, \$40,000
 EMERYVILLE, Alameda Co., Cal.
 Reinforced concrete addition to high school.
 Owner—Emeryville High School Dist.
 Architect—Eng Dept. of Owner (Care Mr. Hawley), Emeryville.

LOS ANGELES, Cal.—Macdonald & Driver, 111 W. 7th St., awarded general contract for Class D brick school administration and residential building at 10643 Beverly Blvd., and a Class E brick school building at 10647 Beverly Blvd., for Marymont School.
 Other contracts awarded are as follows: Painting, Arenz-Warren Co., 2121 W. Pico St.; ornamental metal, Friedman-Zoeller, Inc., 5008 Pacific Blvd., Vernon. Plans prepared by Architect Ross Montgomery, 572 Chamber of Commerce Bldg.

VALLEJO, Solano Co., Cal.—Until March 24, 4 P. M., bids will be received by Elmer L. Cave, secretary, Board of Education, to furnish during the school years 1931-32, school supplies, fuel, school furniture and apparatus. Certified check 5% payable to Russell F. O'Hara, president of the Board of Education, required with bid. Specifications obtainable from secretary, 14 City-County Bldg., Vallejo.

Bids Wanted—To Be Opened March 20, 8 P. M.
 CAFETERIA Cost, \$25,000
 YUBA CITY, Sutter Co., Cal. Yuba City High School.
 One-story reinforced concrete cafeteria.

Architect—Chas. F. Dean, California State Life Bldg., Sacramento.

BANKS, STORES & OFFICES

CALIFORNIA.—Federal Ornamental Iron Works, 16th and San Bruno, San Francisco, awarded contract by Architect H. A. Minton, Bank of America Bldg., Eddy and Powell Sts., San Francisco, for approx. 250 chromium plated bronze signs to replace those on American Bank buildings throughout California. Thollander Const. Co., Cal Bldg., San Francisco, has the contract to remove old signs.

OAKLAND, Calif.—Fire destroyed property at 1720-24 Broadway, Feb. 25, with a loss of \$150,000 to the building and \$100,000 to contents. Losers were the Morcor Art Store and the jewelry establishment, both at 1724; the Federal Outfitting Company, 1722, and the Lucille Shoppe, 1720.

POMONA, Los Angeles Co., Cal.—Southern Counties Gas Co., 310 S. Flower St., Los Angeles, will take general contract bids the first week in March for a new two-story Class A reinforced concrete district headquarters building to be erected at the southeast corner of Holt Ave. and Main St., Pomona. Plans were prepared by the owner's engineering department. Cost, \$70,000.

Working Drawings Being Prepared.
 STORE Cost Approx. \$500,000
 OAKLAND, Alameda Co., Cal. Broadway.
 Three-story Class A department store Owner—Isadore Weinstein, 1041 Market St., San Francisco.
 Architect—Wm. Knowles, 1214 Webster St., Oakland.
 Bids will be taken in about thirty days.

Preparing Plans.
 BANK Cost, \$80,000
 LOS ANGELES, Cal. Wilshire Blvd. and Shatto Place.
 One-story concrete and stone bank and store (220x100 feet).
 Owner—Everett A. Seaver.
 Architect—Walker & Eisen, Western Pacific Bldg., Los Angeles.

Plans Being Completed.
 STORE Cost, \$50,000
 SANTA ROSA, Sonoma Co., Cal. Fourth Street.
 Three-story brick and concrete store building (salesroom and offices).
 Owner—S. H. Kress & Co., 621 S Broadway, Los Angeles.
 Architect—John Fleming, 1021 South Broadway, Los Angeles.
 It was considered possible that a new steel reinforced superstructure might be set up just inside the present walls.
 Bids will be called for shortly.

Additional Sub-Contracts Awarded.
 STORES Cost approx. \$75,000
 OAKLAND, Alameda Co., Calif. SW 19th St. and Telegraph Ave.
 Group of 1-story steel frame and terra cotta shops and stores.
 Owner—Township & Broadway Realty Co., Oakland.
 Architect—A. J. Evers, 525 Market St., San Francisco.
 Contractor—George P. W. Jensen, 320 Market St., San Francisco.
 Grading—Ariss Knapp Co., 961 41st St., Oakland.
 Steel Windows—Soule Steel Co., Rialto Bldg., San Francisco.
 Electrical Work—Slater Electric Co., 579 18th St., Oakland.
 As previously reported, structural steel awarded to Judson Pacific Co., 609 Mission St., San Francisco; reinforcing steel to McGrath Steel Co., 354 Hobart St., Oakland; concrete to Nat Lena, 2307 Echnal Ave., Alameda; terra cotta to N. Clark & Sons, 110 Natoma St., San Francisco.

Contract Awarded.
 REMODELING Cost, \$11,000
 STOCKTON, San Joaquin Co., Calif. 245 E Main St.
 Remodel ground floor of office bldg.
 Owner—Capitol Co., 248 E Main St., Stockton.
 Architect—Not Given.
 Contractor—Lewis & Green, Bank of Italy Bldg., Stockton.

Sub-Bids Being Taken
 BANK Cost, \$60,000
 LOS GATOS, Santa Clara Co., Cal. Main St. and Santa Cruz Avenue (52x100 feet).
 One-story reinforced concrete bank with tile roof (ornamental stone and accoustical plaster).
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of America Bldg., San Francisco.
 Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco.
 There will be two stores, 20x72 feet in connection with the building.

Electrical Bids Being Taken.
 BANK Cost, \$200,000
 MONTEREY, Monterey Co., Cal. Location not selected.
 One-story and mezzanine steel frame and concrete bank with tile roof.
 Owner—Monterey County Trust and Savings Bank.
 Architect—H. W. Winner Co., 550 Market St., San Francisco.
 Mgr. of Const.—Mark Finlayson, care architect.
 Cabinet bids will be taken within one week.
 As previously reported, structural steel awarded to McClintic-Marshall Co., 2050 Bryant St., San Francisco; reinforcing steel to Gunn, Carle & Co., 444 Market St., San Francisco; excavation to M. J. Murphy, Carmel.

Contract Awarded.
 ALTERATIONS Cost, \$8000
 SAN FRANCISCO, 343 Sansome St.
 Alterations to offices.
 Owner—Cosgrove & Co., 343 Sansome.
 Architect—Hyman & Appleton, 68 Post Street.
 Contractor—Jacks & Irvine, 74 New Montgomery St.

Completing Plans.
STOBE Cost, \$8000
HURLINGAME, San Mateo Co., Cal.
 California Drive
 One-story reinforced concrete store.
 Owner—F. Peterson, Hurlingame.
 Architect—E. L. Norberg, 580 Mark-
 ket St., San Francisco.
 Bids will be taken in one week.

Planned.
BANK Cost, \$—
ALAMEDA, Alameda Co., Cal. Park
 and Centre Sts.
 one-story reinforced concrete bank.
 Owner—Central Bldg. & Loan Assn.,
 Central and Park Sts., Alameda,
 (J. L. Delaney, Mgr.)
 W. E. Schlmer, 700 21st St., Oak-
 land prepared preliminary sketches.

February 25, 1931
 Bids To Be Taken Within a Few Days
BANK Cost, \$75,000
SAN MATEO, San Mateo Co., Cal. B
 St. and Third Ave. (110 ft. front-
 age).

One-story concrete bank.
 Owner—Bank of Italy.
 Architect—H. A. Minton, Bank of Italy
 Bldg., Eddy and Powell Sts., San
 Francisco.

THEATRES

Contract Awarded.
THEATRE Cost, \$90,000
SOUTH SAN FRANCISCO, San Ma-
 teo Co., Cal.

One-story reinforced concrete theatre
 (stadium type to seat 1000).
 Owner—Chas. E. Petersen, 191 15th
 Ave., San Francisco.
 Architect—Dodge Riedy, Pacific Bldg.,
 San Francisco.

Contractor—R. C. Stickle, 213 Linden
 Ave., South San Francisco.
 Sub-bids will be taken shortly.

Plans Being Prepared.
THEATRE Cost, \$150,000
SAN JOSE, Santa Clara Co., Cal.
 NE First and San Salvador Sts
 Class A theatre building.
 Owner—United Artists Corp., 1966 S
 Vermont St., Los Angeles.
 Architect—S. Chas. Lee, 714 W-Tenth
 St., Los Angeles

Preliminary Plans Prepared.
THEATRE Cost, \$175,000
STOCKTON, San Joaquin Co., Cal.
 Main St., bet. Market and Stanis-
 laus Sts.

Owner—National Theatres Syndicate,
 25 Taylor St., San Francisco.
 Architect—Bliss & Fairweather, Bal-
 boa Bldg., San Francisco.

WHARVES AND DOCKS

Structural Steel Contract Awarded.
TERMINAL Cost, \$—
OAKLAND, Alameda Co., Cal. Foot
 of Webster Street.

Structural steel frame for Inland Wat-
 ers Terminal: 152 ft. on harbor
 side, 235 ft. on slip side; also con-
 crete viaduct 260 ft. by 33 ft.

Owner—City of Oakland (Fort Com-
 missioner, G. B. Hegardt, Secretary)
 Oakland Bank Bldg., Oakland.

Plans by Eng. Dept. of City Port Com-
 mission, Oakland Bank Bldg., Oak-
 land.

Contractor—California Steel Co., Ho-
 bart Bldg., San Francisco.

**MISCELLANEOUS
 CONSTRUCTION**

SUISUN, Solano Co., Cal.—A. Fred.
 Anderson, 1093 Longridge Road, Oak-
 land, at \$1,130 awarded contract by
 city trustees to construct reservoir
 cover on distributing reservoir on

Gregory Hill, two miles NW of county
 court house.

UKIAH, Mendocino Co., Cal.—Berke-
 ley Steel Const. Co., 2nd and Cam-
 melia Sts., Berkeley, at \$1,374 sub-
 mitted lowest bid to city trustees to
 furnish: two 2,500 cu. ft. riveted gas
 tanks 6-ft. dia by 30-ft. long, 3/4-in.
 shell, 1/2- and 3/4-in. heads. Equipped
 with one 11x15 manhole in head, three
 2-in. forged steel flanges, one 1/2-in.
 dial pressure gauge, designed for 90-
 lb. per sq. in. working pressure and
 built in accordance with A.S.M.E.
 Code for Unfired Pressure Vessels, f.
 o. b. cars, Ukiah; 90 days delivery.

Following is a complete list of bids:
Berkeley Steel Const. Co., Berkeley
 eley\$1,374
California Steel Prod. Co......1,389
Eureka Boiler Works.....1,449
Western Pipe & Steel Co......1,470
Ocean Shore Iron Works.....1,502
Pacific Coast Boiler Works.....1,524
Western Pipe & Steel Co......1,548
Boiler Tank & Pipe Works.....1,620
Huber Company.....1,640
Consolidate Steel Corp......1,670
California Boiler Works.....1,923
Standard Boiler & Steel Co......2,000
Bay City Iron Works.....2,290
 Bids held under advisement.

Preparing Plans.
MEMORIAL BLDG. Cost, \$—
REDLANDS, San Bernardino Co., Cal.
 Memorial building (fireproof construc-
 tion with the roof).
 Owner—City of Redlands.
 Architect—Elmer Grey, 170 E-Califor-
 nia St., Pasadena.
 Contractor—Bert Taylor, Redlands

STOCKTON, San Joaquin Co., Cal.
 —Until March 9, bids will be received
 by city council to construct comfort
 station in American Legion Park. Hol-
 low tile to be used in the structure
 will be furnished by the city. Plans
 on file in office of city clerk.

**MISCELLANEOUS SUPPLIES
 AND MATERIALS**

SAN FRANCISCO—Pames A. Nel-
 son, Inc., 10th and Howard Sts., at
 each awarded contract by City
 Purchasing Agent, under Proposal No.
 679, to furnish 300 galvanized iron
 garbage cans for the school depart-
 ment.

SAN FRANCISCO—Until March 23,
 3 P. M., under Proposal No. 690, bids
 will be received by Leonard S. Leavy,
 city purchasing agent, 270 City Hall,
 to furnish and deliver supplies in the
 following classes:

CLASS 2—Enameled Ware, Alumin-
 um Ware, Tinware, and Kitched Utens-
 ills.

CLASS 5—Fuel and Gasoline.

CLASS 6—Boiler Compound.

CLASS 8—Lubricants.

CLASS 10—Household Supplies and
 Cordage

CLASS 14—Photographic and Blue
 Printing Supplies.

CLASS 15—Drugs, Medicines, Chemi-
 cals, Hospital Appliances and Sur-
 gical Instruments.

CLASS 16—Street and Sewer Mat-
 terial.

CLASS 17—Drafting and Engineers'
 Supplies.

CLASS 18—Incandescent Electric
 Lamps.

The above materials will be ordered
 by the city from time to time during
 the fiscal year commencing July 1,
 1931, and ending June 30, 1932. Spec-
 ifications are obtainable from the city
 purchasing agent.

BUSINESS OPPORTUNITIES

Names and addresses of persons or
 firms concerned in the following op-
 portunities will be furnished on re-
 quest to Business Opportunity De-
 partment, Daily Pacific Builder, 547
 Mission St., San Francisco, or phone
 GARfield 8744.

**20859—Borax and Bitumen Emul-
 sions**, San Francisco. A business
 house in Sweden was to be put in
 touch with producers of borax. An-
 other Swedish concern wishes con-
 nections with manufacturers of cold
 bitumen emulsions for road improve-
 ment.

20857—Mimeographing Machines,
 San Francisco. French manufacturer
 of mimeographing machines wishes an
 agent for San Francisco.

A Minneapolis firm, manufacturing
 boilers, desires representation in this
 district. If interested communicate
 with F. S. Williams, executive secre-
 tary of the Minneapolis Civic and
 Commerce Association, Minneapolis,
 Minn.

A. F. John, manager of the Mil-
 waukee Tank Works, Inc., Milwaukee,
 Wis., manufacturers of filling station
 equipment wishes to secure names of
 reputable parties or companies to re-
 present them in San Francisco and
 adjacent territory.

Jacque Goldstein, 434 Driggs Ave.,
 Brooklyn, N. Y., represents a manu-
 facturer of paints and varnishes who
 desires representation in this section.
 If interested communicate with Gold-
 stein direct

**WALTER W. COOPER
 WITH R. R. COMMISSION**

The State Railroad Commission an-
 nounces the employment of Walter
 W. Cooper to take charge generally
 of the preparation of cases before the
 Commission, the employment to com-
 mence as soon as Mr. Cooper can
 bring to a close his existing engage-
 ments with various California cities,
 by whom he is employed in rate mat-
 ters. He will start upon his new du-
 ties not later than July 1.

Mr. Cooper is a graduate of the
 University of Minnesota. Prior to the
 War, he was the personal assistant of
 Chas. L. Pillsbury, consulting engi-
 neer in connection with the valua-
 tion of the various public utilities in
 the District of Columbia for the Util-
 ity Commission there. Following this,
 he was employed by Dr. Edward W.
 Bemis in making a valuation for the
 city of Chicago, of the Peoples Gas,
 Light & Coke Company. During the
 War, he served in the Navy. After-
 wards he worked for Dr. Milo R.
 Maltbie, now Chairman of the New
 York Public Service Commission, in
 a state-wide telephone rate case in
 Minnesota.

Following this Mr. Cooper worked
 for Dr. Delos F. Wilcox in connection
 with valuations or reports on the
 Minneapolis Street Railway Company
 and the Minneapolis Gas & Light Co.,
 the Denver Tramway Company, Fort
 Worth Power & Light Company, the
 Los Angeles Street Railway Corp.,
 and the street railway franchise sit-
 uation in San Francisco. He assisted
 Dr. Wilcox in the preparation of
 Whitten & Wilcox on Valuation of
 Public Service Corporations. He was
 employed by the East Bay cities in
 the telephone case, and recently has
 been employed by the cities of Oak-
 land, Sacramento, Stockton, Tracy,
 Fresno and Minneapolis in utility mat-
 ters.

Mr. Cooper's principal duties will
 be to maintain a constant check on
 the rate structures and earning con-
 ditions of the various utilities, and to
 coordinate the work and records of
 the several departments of the Com-
 mission in handling rate cases.

Engineering News Section

BRIDGES

MARTINEZ, Contra Costa Co., Cal.—City Engineer Ben Greene is completing plans for Green street bridge over Alhambra Creek for which the city has \$10,000 available in budget funds. Bids will be asked shortly.

SANTA ROSA, Sonoma Co., Cal.—E. A. Feugh, Courthouse, Santa Rosa, engineer for Joint Highway District No. 7 has completed plans and bids to construct a bridge over Macama Creek, 10 miles east of Healdsburg, on the Healdsburg-Calistoga Highway in Knight's Canyon. Will be steel and concrete construction.

SAN BERNARDINO COUNTY, Cal.—Until March 18, 2 P. M., bids will be received by State Highway Commission to construct bridge over Lytle Creek about 2 miles west of San Bernardino, consisting of five 35 foot steel stringer spans with concrete deck on steel pile bents.

See call for bids under official prospect section in this issue.

VENTURA, Ventura Co., Cal.—A. V. Montin, 1957 West 30th St., Los Angeles, awarded contract by county supervisors at \$1469 to construct timber bridge 20 ft. wide and 30 ft. long with concrete paving and earth fill approaches.

RIVERSIDE COUNTY, Cal.—Plans for the widening of the Rubidoux Bridge over the Santa Ana River have been received by District Engineer E. Q. Sullivan at San Bernardino, who is checking the plans and the site, and who will submit his report to the State Highway Commission. Bids will probably be called within 30 days. About \$150,000 is available for this work, which is scheduled to start May

MERCED, Merced Co., Cal.—County Supervisor W. E. Bedesen, Shaffer Bldg., is preparing plans for repairs to the Cox Ferry bridge over the Merced river on the Merced-Cox Ferry Road.

SAN FRANCISCO—President Hoover has signed the San Francisco Bay Bridge Bill authorizing the State to proceed with construction of the proposed \$75,000,000 structure to connect San Francisco with the East Bay district.

WEAVERVILLE, Trinity Co., Cal.—U. S. Forest Service officials and the county supervisors have reached an agreement whereby the new bridges will be constructed, one at Big Bear and another at Hyampton over the Trinity river. Each will have a 250-foot span. The cost is estimated at \$10,500 each.

LOS ANGELES, Cal.—Plans for the reinforced concrete and structural steel viaduct to be built across the Los Angeles River at East Sixth St. have been completed and will be ready for contractors March 2. The call for bids will be issued by the Los Angeles Board of Public Works which is

expected to take action about Feb. 27 with bids to be received about March 25 or the week following. The definite date will be announced later.

Merrill Butler, chief bridge engineer, has prepared a list of the quantities which will enter into the construction of this bridge and appurtenances, the preliminary quantities being as follows:

- 8,000,000 lbs. reinf. steel;
- 46,000 cu. yds. class F concrete;
- 500 cu. yds. class G concrete;
- 370 15-ft. concr. piles (precast or cast in place);
- 1,200 tons more or less structural steel;
- 3,000 cu. yds. more or less grading, including fill;
- 2,900 ft. curb;
- 23,000 sq. ft. concr. gutter and local depressions;
- 35,500 sq. ft. cement walk;
- sanitary sewer, storm drain, 8-in. and 3-in. asph. concr. pavement, as per plans;
- ornamental handrails, etc.;
- 72 concrete centrifugally cast standards with double bronze lanterns.

The bids form will include the following items:

- (1) reinf. steel, complete in place;
- (2) 46,000 cu. yds. class F concrete (quantity subjects to revision);
- (3) 500 cu. yds. class G concrete;
- (4) reinf. concr. piles, complete in place;
- (5) structural steel, complete in place;
- (6) grading, complete in place;
- (7) 2900 ft. curb;
- (8) 23,000 sq. ft. concr. gutter and local depressions;
- (9) 35,500 sq. ft. cement walk;
- (10) construct and remodel sanitary sewers;
- (11) construct and remodel storm drains;
- (12) pavements, complete in place;
- (13) ornamental handrails and pylons, complete;
- (14) lighting standards and lighting units, complete.

This bridge will be of the girder span type, with structural steel river span, a total length of 3600 ft. The bridge proper will be 46 ft. and at the approaches 56 ft. wide. East of the river the bridge will be 60 to 68 feet above the street level. The approximate cost has been set at about \$1,620,000.

SONOMA COUNTY, Cal.—Peter McHugh, 300 Waldez Ave., San Francisco, at \$19,366 awarded contract by State Highway Commission to construct timber bridge across Mark West Creek about 4.5 miles north of Santa Rosa, consisting of six 19-ft. spans and two 16-ft. 10-in. spans, surfaced with Portland cement concrete, on pile bents and grading and paving approaches with Portland cement concrete pavement.

STOCKTON, San Joaquin Co., Cal.—Until March 16, 10 A. M., new bids will be received by Eugene D. Graham, county clerk, to construct sub-way near Forrest Lake on the Lower Sacramento road in Road District No. 2 under the tracks of the Southern

Pacific Railroad; estimated cost \$26,000. Railroad is to pay a portion of the cost. Project involves:

- (a) 630 cu. yds. excavation (earth unclassified);
- (b) 80 cu. yds. old concrete to be removed;
- (c) 227 cu. yds. reinforced concrete (1:1½:3);
- (d) 131 cu. yds. reinf. conc. (1:2:4);
- (e) 315 cu. yds. mass concrete;
- (f) 70 cu. yds. deck concrete;
- (g) 70 lin. ft. concrete handrail;
- (h) 44,000 lbs. reinforced steel;
- (i) drainage equipment;
- (j) lighting and wiring.

Previous bids were rejected, the lowest being submitted by E. E. Stokes, 923 S Sierra Nevada St., Stockton, at \$12,237.25. Complete list of unit bids received published in issue of Feb. 13.

Certified check, 10 per cent payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from County Surveyor Julius Manthey on payment of \$15 deposit.

OAKLAND, Calif.—A. W. Kitchen, LaSalle and Indiana Road, Oakland, at \$1,390.80 awarded contract by county supervisors to repair High Street bridge, involving (1) creosoted piles, \$892.20; (2) creosoted timber, \$168; (3) untreated timber, \$160; (4) remove and replace pile braces, \$170. Complete list of bids follows:

- A. W. Kitchen, (1) \$892.80; (2) \$168;
- (3) \$160; (4) \$170; total \$1,390.80.
- C. J. Nysted, 2281 Lakeshore Ave., (1) \$1260; (2) \$140; (3) \$375; (4) \$25; total \$1500.
- Koetitz & Koetitz, 1424 Fountain Ave., Alameda, (1) \$1440; (2) \$140; (3) \$375; (4) \$40; total \$1,955.

Informal bids were received for this work.

DREDGING HARBOR WORKS & EXCAVATIONS

PIERPONT BAY, Cal.—Bids will be taken about Feb. 23 by the Frank Meline Co. for the construction of about one mile of cast steel bulkhead at Pierpont Bay to replace the wooden bulkhead recently destroyed by high tides. The steel structure, which will be a cross section of the shape of the letter A, will have a core which will be filled with concrete. D. A. Rizer is the local manager of the company and in charge of the work. The estimated cost is \$300,000.

SANTA MONICA, Calif.—The proposal that the Santa Monica city commission complete the Santa Monica Harbor Co.'s breakwater project has been made to that body. The estimated cost to build a 1000 ft. breakwater is \$350,000, according to figures supplied the commission by F. S. Wilson, industrial secretary for Santa Monica, and Taggart Aston, consulting engineer.

WILKLAND, Cal.—City Port Commission rejects bids for disposition of excess dredge fill east of Warehouse B on the waterfront, involving 5000 cu. yds. Jack Casson, Hayward, was low bidder at \$399 cu. yd. Complete list of bids published in issue of Feb. 17.

PEARL HARBOR, T. H.—Until April 8, under Specification No. 6293, bids will be received by Bureau of Yards and Docks, Navy Department, Wash-

ington, D. C., for dredging at the Naval Operating Base, Pearl Harbor. The work includes dredging and disposal of approximately 2,900,000 cubic yards of materials. Plans obtainable from Commandant at the Mare Island Navy Yard and must be accompanied by a check or postal money order for \$20, payable to the Chief of the Bureau of Yards and Docks. Deposit is returnable.

IRRIGATION PROJECTS

LINDEN, San Joaquin Co., Cal.—Fred H. Tibbetts, engineer, Alaska Commercial Bldg., San Francisco, in a report to the directors of the Linden Irrigation District offers two proposals to finance the project to bring water into the district for replenishment of the underground supply and surface irrigation problem. The two proposals contemplate an expenditure of \$17,000.

In outlining two separate bond proposals, Engineer Tibbetts recommended an issue of \$93,000 for the installation of a pumping plant at Bellota to divert waters into the old Calaveras channel, running through the district, and an expenditure of \$44,000 to purchase the Salt Spring Valley reservoir, an old mining storage basin nine miles east of Milton, owned by the California Company of Pittsburg.

Under the first proposal, one dam would be constructed in the old Calaveras river bed at Bellota, and four below that town, from which water could be pumped into the district and an adequate supply also backed up into a series of ponds for percolation through the underground strata. The second issue would provide for the purchase of the Salt Spring reservoir at a price of \$30,000, and the repairing of a canal between five and six miles long for diversion of water into a gulch which ends at the Calaveras river about seven miles above Bellota.

STREET LIGHTING SYSTEMS

CULVER CITY, Los Angeles Co., Cal.—Until 8 P. M., March 16, bids will be received by city council to construct ornamental lighting system in portions of Sepulveda Blvd. and Washington Blvd., about one mile, involving 91 No. 2500 Marbelite standards; and A. & I. No. 15. Geo. E. Lee,

SAN FRANCISCO.—Until March 18, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to install ornamental street lighting system in Bay Shore Blvd. Bids are wanted for:

- (a) furnish and install ornamental street lighting system;
- (b) furnish and install additional street lighting standards.

A bond of \$5,000 will be required of the successful bidder. Certified check 10%, payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from the Bureau of Engineering, 3rd floor, City Hall.

EUREKA, Humboldt Co., Cal.—Until March 3, 8 P. M. (previously reported March 4) new bids will be received by Walter A. Kildale, city clerk to install electric lights with underground system in Fourth St. from Broadway to J St., involving cast iron standards. Previous bids rejected, these being City Imp. Co., San Francisco, \$14,750; Eureka Electric Co., \$14,500; Globe Electric Co., San Francisco, \$15,000. Engineer's estimate, \$13,000. Certified check 10% payable to city required with bid. Plans ob-

tainable from E. D. Gardner, city engineer.

BURBANK, Los Angeles Co., Cal.—Until 7 P. M., March 3, bids will be received by the City Manager of Burbank, W. S. Patterson, for furnishing 52 porcelain body suspension type, series 66 ampere street lighting fixtures; 46 of these will be equipped with Hopophone 8-inch symmetrical bowl refractors and 8 will be equipped with Hopophone Asymmetric two-way bowl refractors.

MACHINERY AND EQUIPMENT

RENO, Nev.—Until March 24, 10 A. M., bids will be received by Washoe County Commissioners to furnish and deliver:

- (a) Two 3-ton motor trucks;
- (a) one 1½-ton motor dump truck;
- (c) one pick-up truck with commercial body;
- (d) one 5-passenger sedan;
- (e) one leaning-wheel grader with 8-cu. yd. capacity.

Specifications and further information obtainable from county clerk at Reno.

OAKLAND, Cal.—Until March 4, 5:30 P. M., bids will be received by J. H. Kimball, secretary, East Bay Municipal Utility District, to furnish one Dodge Bros. truck chassis. Specifications obtainable from above.

SACRAMENTO, Cal.—Link-Belt Co., 400 Paul Ave., San Francisco, at \$1,392 submitted low bid to city council to furnish elevating and screening equipment for the Municipal Filtration Plant. Complete list of bids follows, all being taken under advisement until February 26:

Link-Belt Co., San Francisco.....	\$1,392
Stockton Iron Works, Stockton.....	1,540
alt. bid.....	1,725
Edw. R. Bacon Co., San Francisco.....	1,655

Bids referred to Fred Klaus, city engineer, for report.

CORONA, Riverside Co., Cal.—Until 7 P. M., March 10, bids will be received by the Corona city council for furnishing a 1½-ton truck, one W28 2-yard Wood garbage body, one F1 3-ton lift 60-degree angle Wood hydraulic hoist; also Laher overload springs. A. M. Hinckley, city clerk.

SAN JOSE, Santa Clara Co., Cal.—City council plans to use surplus bond funds to finance the purchase of the following equipment:

- \$2000 for tractor for fire department truck;
- \$2000 for combination ambulance and police patrol truck;
- \$400 for power lawn mower for city parks;
- \$1500 for truck for park department.

John J. Lynch is city clerk. Wm. Popp is city engineer.

FIRE EQUIPMENT

NEWPORT BEACH, Orange Co., Cal.—Until 7:30 P. M., March 2, bids will be received by city council for furnishing fire apparatus, as follows:

- (1) One 500-G. P. M. pumper;
- (2) One 750-G. P. M. pumper.

Specifications may be obtained from the city engineer, R. L. Patterson.

LIVERMORE, Alameda Co., Cal.—City Council, on recommendation of Fire Chief L. E. Wright, contemplates the purchase of a chemical and hose truck for the fire department. Estimated cost \$4000.

PASO ROBLES, San Luis Obispo Co., Cal.—Booth Bros. Paso Robles, at \$868.60 awarded contract by city trustees to furnish one 4-cylinder Dodge truck chassis for fire department. Paso Robles Garage, at \$325.45 awarded contract to furnish one Chevrolet 6-cylinder, 50-hp. chassis.

RESERVOIRS AND DAMS

HAYWARD, Alameda Co., Calif.—Jones and King, Hayward, at \$10,580 awarded contract by city council to construct reinforced concrete reservoir of 1,000,000 gals. capacity, in Upper D St., involving:

- (1) 29,400 M.B.M. lumber;
- (2) 12,970 sq. ft. 4-ply tar and gravel roofing;
- (3) 4,860 cu. yds. excavation;
- (4) 103.7 cu. yds. concrete in walls;
- (5) 283 cu. yds. concrete in floor, footings and columns;
- (6) 48,400 lbs. reinf. steel;
- (7) 1,270 lbs. asph. sealing compound
- (8) 201 lin. ft. 8-in. vit. clay B & S pipe;
- (9) 590 sq. ft. ¼-in. wire screening;
- (10) 920 lin. ft. 12-in. C. I. supply main (to be laid only);
- (11) 2 concrete valve boxes;
- (12) 1 12-in. C. I. inlet pipe installed;
- (13) 1 8-in. C. I. overflow pipe;
- (14) 1 8-in. washout C. I. pipe;
- (15) 1 wooden indicator.

NOTES: All C. I. pipe, specials and valves furnished by the city.

Complete list of bids follows:

Jones & King, Hayward.....	\$10,580
A. F. Hanson, Hayward.....	11,000
L. J. Immel, Oakland.....	11,298
Thermotte Const. Co., San Jose.....	11,396
George Ulrich Const. Co., Modesto.....	11,642
J. H. Fitzmaurice, Oakland.....	11,681
J. W. Hooper, Sacramento.....	12,195
Gonzales & Holyroake, Hayward.....	12,689
Dudley de Vries, San Francisco.....	12,820
Collins & Martin, San Jose.....	12,910
C. A. Bruce & Son, Oakland.....	12,959
W. H. Hansen, Oakland.....	13,400
J. A. Casson, Hayward.....	13,650
C. L. Jordan, Belmont.....	13,945
Frederickson & Watson, Oakland.....	14,119
Eaton & Smith, San Francisco.....	14,590
Frank Bryant, San Francisco.....	14,615
Geo. Hudson, Oakland.....	16,261

GLENDALE, Los Angeles Co., Cal.—P. Dederick, city water superintendent, preparing plans for a permanent concrete top for the Chevy Chase Reservoir. The estimated cost is \$100,000.

PIPE LINES, WELLS, ETC.

TURLOCK, Stanislaus Co., Calif.—Olson Bros. (Turlock Plumbing Co.), Turlock, awarded contract by city council to drill well in connection with water system; drill and case well to depth of 85 ft., \$476.39 and \$1.75 for each additional foot of drilling and \$2.20 for each additional foot of casing with \$25 per day for developing well.

LOS ANGELES, Cal.—The Southern Fuel Co., Garland Edg., Los Angeles, will take bids in about 60 days for the trenching, laying and backfilling of a 210 mile natural gas pipe line from Long Beach to the Kettleman Hills District. The exact sizes of the pipe to be used have not been determined. All pipe will be purchased by the company. The Southern Fuel Co. which was organized jointly by the Southern California Gas Co. and the Southern California Edison Co., is now securing necessary franchises from the cities and counties along the route.

CORCORAN, Kings Co., Cal.—Henry Cedarquist, Corcoran, awarded contract by city trustees to drill well in connection with municipal water system.

SAN FRANCISCO.—Following bids taken under advisement by Board of Public Works to drill four wells in 43rd Ave. bet. Kirkham and Santiago Sts. and a test well in 46th Ave. bet. Norlega and Ortega Sts.

(a) price per foot if well is on paved street.

(b) price per foot if well is on unpaved street.

A. Paulsen (a) \$12.50 ft.; (b) \$10.75 ft. J. E. Rogers, (a) \$13.50 ft.; (b) \$10.95.

SEWERS AND SEWAGE DISPOSAL PLANTS

SANTA MONICA, Los Angeles Co., Cal.—Howard B. Carter, city engineer, is preparing plans for a sewer to be built in Colorado Ave., between 2nd St. and 20th St., about 1.5 miles. The pipe will be of vitrified clay and include both 15-in. and 18-in. diameter pipe. Work under 1911 Act.

REDWOOD CITY, San Mateo Co., Cal.—Until March 16, 10 a. m., bids will be received by county supervisors to construct sewer system in the Lomita Park Sanitary District, involving:

Vitrified Clay Sewer

- (1) 2700 lin. ft. 4-in.;
- (2) 100 lin. ft. 6-in.;
- (3) 5000 lin. ft. 8-in.;
- (4) 6900 lin. ft. 10-in.;
- (5) 9200 lin. ft. 12-in.;
- (6) 1400 lin. ft. 15-in.;
- (7) 8400 lin. ft. 18-in.;
- (8) 3150 lin. ft. 21-in.;

Cast Iron Sewer

- (9) 06 lin. ft. 8-in.;
- (10) 3420 lin. ft. 10-in.;
- (11) 144 lin. ft. 12-in.;
- (12) 4272 lin. ft. 14-in.;
- (13) 120 lin. ft. 18-in.;

Vit. Clay Wires

- (14) 60 4x8-in. wires;
- (15) 120 4x10-in. do;
- (16) 140 4x12-in. do;
- (17) 60 4x15-in. do;
- (18) 20 manholes;
- (19) 123 M. db. ft. trestles;
- (20) 2 sumps;
- (21) 2 pump houses;
- (22) 4 air and vacuum valves;
- (23) 4 pressure air valves;
- (24) 2 400 GPM pumps;
- (25) 2 1200 GPM pumps.

Plans obtainable from R. A. Klansen, engineer, Redwood City, and on file in office of county clerk.

SAN JOSE, Santa Clara Co., Cal.—City Engineer Wm. Popp is preparing plans for a sanitary sewer in portions of Willow St., Prevost St., and Delmas Ave.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd Floor, City Hall, is completing plans for additions to the Baker Street and Pierce Street Outfall sewers in the Marina district. Funds to finance will be available from the General Fund, 1930-31 Budget.

MISCELLANEOUS CONSTRUCTION

SAN MATEO COUNTY, Cal.—Ten grade separations in San Mateo county at an estimated total cost of \$2,445,900 are suggested in the primary program contained in the report of the committee on technical data of the Peninsula Grade Crossing Conference. In the secondary program separation of 12 more grade crossings in San Mateo county is urged at an estimated expense of \$2,245,000. Elimination of 22 crossings in the primary program and of 11 more in the secondary program is also urged. There are at

present 52 grade crossings on the Southern Pacific main line throughout the county. The suggested program for first construction in Redwood City calls for the expenditure of \$760,000 for underpass at Hopkins St., Broadway and Main St. Construction of an underpass at Spruce St. for \$192,000 is recommended as part of the secondary program.

WATER WORKS

SAN FRANCISCO.—Petroleum Equipment Co., 11th and Connecticut Sts., awarded contract by City Purchasing Agent, under Proposal No. 682, to furnish and deliver steel pipe for San Francisco Water Department. Standard weight galvanized wrought steel pipe, (made in the U. S. A.), in random lengths, threaded and coupled, as follows:

- (1) 35,000 ft. 3/4-in., \$6.03 per 100-ft.
- (2) 3,000 ft. 1-in. \$8.59 per 100-ft.

For mill shipment, f.o.b. 639 Bryant St., San Francisco.

WALNUT CREEK, Contra Costa Co., Calif.—Water Works Supply Co., 501 Howard St., San Francisco, at \$277 submitted lowest bid to city trustees to install pumping plant, involving centrifugal pump with capacity of 280-gals. per minute with a 7 1/2-hp. motor. Following is a complete list of the bids:

- Water Works Sup. Co., S. F. \$277
- Fairbanks-Morse Co., S. F. 355
- United Iron Works, Oakland 340
- De LaVal Co., S. F. 345
- Kimball Krogh Co., S. F. 349
- Worthington Co., S. F. 352
- W. E. Mauzy & Son, Walnut Creek 401
- Pacific Pump Works, S. F. 420
- Neil & Walker, Walnut Creek 493

Bids held under advisement.

WALNUT CREEK, Contra Costa Co., Cal.—Water Works Supply Co., 501 Howard St., San Francisco, at \$277 awarded contract by city trustees to install pumping plant, involving centrifugal pump with capacity of 280 gals. per minute with a 7 1/2-hp. motor.

WALNUT CREEK, Contra Costa Co., Cal.—City Engineer E. L. O'Hara in report to city trustees estimates cost of first unit of proposed water distributing system at \$1860, itemized as follows: Dipping 3500 feet of 3-inch pipe, \$235; Pringle Ave., laying 2000 feet of 3-inch pipe at 25c per ft., \$500; Frederick Ave., laying 400 ft. of 3-inch pipe, \$100; Oakland Blvd., from Buena Vista Ave. to Lafayette highway, laying 1700 feet of 8-inch pipe at \$1.50 per ft., and installing pumping plant, purchase of lot, etc., \$5100; laying of 1100 feet of 3-inch pipe to hydrant, \$275; gate valves, fire hydrants, fittings, engineering, etc., \$900

DENVER, Colo.—Bids for furnishing pumps and motors for the Boulder City water system, specifications No. 504-D opened by the U. S. Bureau of Reclamation Feb. 13, follow:

The Aldrich Pump Co., \$1602.
Allis-Chalmers Mfg. Co., \$1740.
Bryon Jackson Co., Berkeley, \$1954; Alt., \$1967.

M. T. Davidson Co., Denver, \$1193.
N. Y. 2370.
Dayton-Dowd Co., Quincy, Ill., \$1266; Alt., \$1279.

DeLaval Steam Turbine Co., Trenton, New Jersey, \$2490

DeLaval Steam Turbine Co., Los Angeles, \$1629.
Frederick Iron & Steel Co., Frederick, Maryland, \$1356; Alt., \$1593.

Hendrie & Bolthoff Mfg. & Supply Co., Denver, \$1297.
Ingersoll-Rand Co. of Colorado, Denver, \$1590.

Kingsford Foundry & Machine Wks. Oswego, N. Y., \$1362.

LeCourtenay Co., Newark, N. J., \$1470.

McCay & Kintland, Inc., Md., \$1740.

Mine & Smelter Supply Co., Denver, \$1476.

Morris Machine Works, New York, \$1869; Alt., \$1688.

Pennsylvania Pump & Compressor Co., Philadelphia, Pa., \$1866.

The Stearns-Roger Mfg. Co., Denver, \$1174.

United Iron Works, Oakland, \$1395.

The Warner Co., Inc., Denver, \$1,302; Alt., \$1350.

Warren Steam Pump Co., Warren, Mass., \$1515.

Well Pump Co., Chicago, Ill., \$1415.

Worthington Pump & Machinery Corp., New York, N. Y., \$1485; Alt., \$2346.

Yeomans Bros. Co., Chicago, \$1710.

PORTLAND, Ore.—Until March 6, 2 P. M., bids will be received by Frank Coffinberry, city purchasing agent, 208 City Hall, to furnish pump, turbine and appurtenances for Bureau of Water Works. Certified check 10% payable to city required with bid. Specifications obtainable from above.

ABERDEEN, Wash.—Bids for the construction of about four miles of 28-in. pipe line for a water supply system will be called about March 1 by the City Water Department, City Hall, Aberdeen. Bids will be taken on wood-stave pipe, steel pipe, and on concrete pipe. S. C. Watkins, city hall, water superintendent.

SEATTLE, Wash.—Hans Pedersen, 1105 Second Ave., Seattle, at \$169,335 awarded contract by Board of Public Works to construct pipe line in North and East Eighteenth Street.

SAN FRANCISCO.—Until March 4, 10 A. M., under Circular No. 928-31-215, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 500 malleable iron pipe fittings, threaded, 150 lbs. S. W. P., galvanized.

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Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

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VALLEJO, Solano Co., Calif.—Until March 6, 11 A. M., bids will be received by Alf. E. Edgemum, city clerk in furnish and deliver 4,416 ft. of 24-pipe, together with fittings and double spigot pipe. Certified check 10% payable to City of Vallejo required with bid. Specifications obtainable from T. D. Kilkenny, city engineer.

SAN FRANCISCO—Until March 4, 10, A. M., under Circular No. 928-31-215, bids will be received by Quartermaster Supply Officer, General Depot, Near Mason, to furnish and deliver 1,750 ft. wrought iron, butt welded, galvanized pipe, as follows:
750 ft. ½-inch.
1,000 ft. ¾-inch.

VANCOUVER, B. C.—Greater Vancouver Water District, E. A. Cleveland, chief commissioner, reports test borings have been completed for the proposed pressure tunnel to carry water across the First Narrows and bids will be asked for in May. It will run from a point on the Indian reserve near the mouth of the Capilano to Stanley Park, where it will emerge just east of the new Ravine bridge. Having a length of 2,100 feet, it will bore through solid rock at a depth of 100 feet below tide water. In diameter the tunnel will be seven feet six inches. Approximately \$1,000,000 will be spent on this project and the laying of steel pipe from the end of the tunnel across Stanley park. The tunnel which should be completed about 1933 will add an additional 25,000,000 to 30,000,000 gallons to the daily water supply. Eventually this work will be connected up with the Little Mountain reservoir, the whole undertaking to cost about \$2,250,000.

BURBANK, Los Angeles Co., Cal.—Until March 3, 7 P. M., bids will be received by W. S. Paterson, city manager, to furnish and install deep well centrifugal turbine pump in 20-in. well at Maple and Jeffries Sts. Specifications obtainable from above.

SANTA MARIA, Santa Barbara Co., Cal.—Until March 2, 7:30 P. M., bids will be received by Mrs. Flora A. Rivers, city clerk, to furnish one complete horizontal electric driven direct connected centrifugal pumping unit. Specifications obtainable from clerk.

PLAYGROUNDS & PARKS

MARTINEZ, Contra Costa Co., Cal.—Until March 5, 7 P. M., bids will be received by F. D. Butcher, clerk, Alhambra Union High School District, to furnish plants and materials for planting and improvement of the high school grounds. Certified check 10% payable to clerk of district required with bid. Specifications obtainable from clerk.

STREETS AND HIGHWAYS

SAN ANSELMO, Marin Co., Cal.—Louis Lambrett, Mill Valley, at \$1650 awarded contract by town trustees to improve Essex street involving grading, hyd. cem. concrete curbs, gutters and headwall hyd. cement concrete pave, vit. pipe sewers with vye branches and laterals, vit. pipe lamp-holes

STOCKTON, San Joaquin Co., Cal.—Until March 15, 10 A. M., bids will be received by Eugene D. Graham, county clerk, to improve Meyer Road in Supervisor District No. 3. Plans obtainable from County Surveyor Julius Manthey.

PLUMAS COUNTY, Cal.—Following bids received February 25, by State Highway Commission to grade 6.7 mi. between Paxton and Kettle:
Morrison & Knudsen, Cont. Nat.

Bank Bldg., Boise, Idaho.....\$48,791
Hemstreet & Iell, Marysville.....51,433
W. H. Hauser, Oakland.....61,518
E. Coates, Sacramento.....52,863
Chigrlis & Sutro, S. F.....52,968
Fennell Co., Sacramento.....53,222
Larsen Bros., Galt.....55,200
Granfield, Farrar & Carlin, S. F. 61,810
Young & Sons Co., Ltd., Berkeley.....64,129
etc.....64,129
C. H. Chittenden, Napa.....67,753
H. H. Boomer, San Francisco.....69,967
Bids held under advisement.

SUTTER COUNTY, Cal.—Until March 9, 2 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, to grade and pave with Portland cement concrete, 0.3 mile near county hospital in Sutter County.

SAN FRANCISCO—E. J. Treacy, Call Bldg., at \$791.25 awarded contract by Board of Public Works to improve Victoria Ave. bet. Randolph and Stanley Sts., involving: (a) 150 lin. ft. armored concrete curb, \$95; (b) 75 lin. ft. 6-in. V.C.P. side sewer, \$.85; (c) 2100 sq. ft. 6-in. class E concrete pavement, \$275.

SAN FRANCISCO—E. J. Treacy, Call Bldg., at \$850.85 awarded contract by Board of Public Works to improve Folsom St. bet. Crescent and Ogden Aves., involving: (a) 142 lin. ft. concrete curbs to be reset, \$.30; (b) 75 lin. ft. 6-in. V.C.P. side sewer, \$1; (c) 2095 sq. ft. 6-in. class E concrete pave., \$.35.

SAN FRANCISCO—Municipal Construction Co., Call Bldg., at \$1,750 awarded contract by Board of Public Works to improve Quesada Ave. bet. Hawes and Griffith Aves., involving: (a) 125 lin. ft. armored concrete curb, \$1.50; (b) 125 lin. ft. 6-in. V.C.P. side sewer, \$1.25; (c) 3125 sq. ft. asphalt concrete pave., 2-in. asphalt conc. surface on 6-in. class F conc. base, \$.45.

SAN FRANCISCO—C. B. Eaton, 715 Ocean Ave., at \$1,803.55 awarded contract by Board of Public Works to improve crossing of Bancroft, Quint and Thornton Aves., involving: (a) 106 lin. ft. armored concrete curbs, \$.75; (b) 70 lin. ft. 10-in. V.C.P. culvert, \$1.50; (c) 775 sq. ft. 1-course concrete sidewalks, \$.13; (d) 3 brick catchbasins, \$70; (e) 5340 sq. ft. asphalt conc. pave., 2-in. asphalt conc. surface on 6-in. class F concrete base, \$.245.

SAN JOSE, Santa Clara Co., Cal.—Proceedings will be started by the city council to improve San Fernando St. bet. 19th and 24th Sts., involving grading, paving, curbs, etc. Wm. Popp, city engineer.

COLUSA COUNTY, Calif.—Harms Bros., Galt, at \$5,715 awarded contract by State Highway Commission to surface with pit run gravel, 1.5 miles bet. Maxwell and the north boundary.

SAN FRANCISCO—Until March 15, 2:30 P. M., new bids will be received by S. J. Hester, secretary, Board of Public Works, to improve De Long St. bet. Head and San Diego Aves., involving:

- (a) 298 lin. ft. armored concrete curb;
- (b) 481 lin. ft. 6-in. V.C.P. side sewer;
- (c) 3921 sq. ft. asphalt conc. pavement, 2-in. asphalt conc. surface on 6-in. class F concrete base.

Bids received for this work on Feb. 18 and published in our issue of Feb. 19, rejected. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN FRANCISCO—Until March 18, 2:30 P. M., new bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Barneveld St. bet. Galvin and Sweeney Streets, involving:

- (a) 75 lin. ft. armored concrete curb;
- (b) 60 lin. ft. 6-in. V.C.P. side sewers;
- (c) 2250 sq. ft. asphalt conc. pavement, 2-in. asphalt conc. surface on 6-in. class F concrete base.

Municipal Const. Co., at \$1,042.50 submitted only bid for this work on Feb. 18. Bid was rejected. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN FRANCISCO—Until March 18, 2:30 P. M., new bids will be received by S. J. Hester, secretary, Board of Public Works to improve Victoria Ave. bet. Shields and Sargent Aves., involving:

- (a) 75 lin. ft. armored concrete curb;
- (b) 15 lin. ft. 6-in. V.C.P. side sewer;
- (c) 1125 sq. ft. 6-in. class E concrete pavement.

Bids received for this work on Feb. 18 and published in our issue of Feb. 19, rejected. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SACRAMENTO, Calif.—Until March 5, 5 P. M. (to be opened 8 P. M.) bids will be received by H. G. Denton, city clerk (2306) to improve alley between Y St. and Burnett Way, from 24th St. to Point 279 ft. westerly, involving c. i. drains with vitrified sewer connections, construct vitrified sewer, 1-inch water main connections, grading, hydraulic concrete pavement, 1811 Act, Bond Act 1915. Certified check 10% payable to city required with bid. Plans obtainable from city clerk. F. J. Klaus, city engineer.

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SAN FRANCISCO—Until March 18, 2:30 P. M., new bids will be received by S. J. Hester, secretary, Board of Public Works, to improve University Ave. bet. Silver and Silliman Aves., involving:

- (a) 96 lin. ft. armored concrete curb;
- (b) 1926 sq. ft. asph. conc. pavement.

2-in. asph. conc. surface on 6-in. class F concrete base.
Bid received Feb. 18 rejected. Municipal Const. Co. only bidder at \$875.-83. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SALINAS, Monterey Co., Cal.—City council declares intention (93) to improve portions of Lincoln Ave., involving grading, hyd. cem. concrete curbs, sidewalks, 5-in. hyd. cement concrete pavement. 1911 Act. Bond Act 1915. Hearing March 16. M. R. Keef, city clerk. Howard Cozens, city manager.

ALAMEDA, Alameda Co., Calif.—Hutchinson Co., 1450 Harrison St., Oakland, at \$8,283.75 awarded contract by city council (96) to improve Third St. bet. Pacific Ave. and Maple St., involving grading; conc. curbs, gutters, walks; corrugated iron culverts; 6-in. oil macadam pavement. Other bids: L. J. Immel, \$8,668; Healey-Moore Co., \$8,852; L. L. Page, \$9,709.

OAKLAND, Cal.—J. H. Fitzmaurice 354 Hobart St., Oakland, at \$660.12 submitted low bid to the city council to construct sidewalks in portions of 92nd Ave. bet. A and G Sts. Following is a complete list of the bids: J. H. Fitzmaurice, Oakland.....\$1,675
Triberti & Massaro, Oakland.....1,659
A. Seda, Oakland.....1,775
All bids held under advisement.

SAN MATEO, San Mateo Co., Cal.—Until March 2, 8 P. M., bids will be received by E. W. Foster, city clerk, to improve Poplar St. from Delaware to Humboldt St. and along south side of San Mateo High School grounds; estimated cost \$30,000. Project involves:

- (a) 2,000 cu. yds. grading;
- (b) 130 lin. ft. 4-in. vit. pipe sewers;
- (c) 130 lin. ft. 6-in. vit. pipe sewers;
- (d) 1,400 lin. ft. concrete curb;
- (e) 14,500 sq. ft. cement sidewalks;
- (f) 1,402 lin. ft. 2x5-ft. reinf. concrete box culvert;
- (g) 7 catchbasins;
- (h) 50,000 sq. ft., 8-in., 5-in. concrete pavement;
- (i) 50 ft. 15-in. conc. pipe sewer;
- (j) 90 ft. 12-in. do.;
- (k) 1 special catchbasin.

2x4 and Imp. Act 1925. Certified check 10% payable to city required with bid. Plans on file in office of clerk. E. P. Wilsey, city manager.

MENDOCINO COUNTY, Cal.—Until March 18, 2 P. M., bids will be received by State Highway Commission to improve 13.5 miles of highway between Pepperwood and Little Dann Creek, about 5 miles to be graded and about 13.5 miles to be surfaced with bituminous treated crushed gravel or stone surfacing, road mixed. See call for bids under official proposal section in this issue.

SANTA CRUZ, Santa Cruz Co., Cal.—City council declares intention (461-C) to improve Vine St. bet. Church and Locust Sts., involving cement concrete paving, curbs, walks, driveway approaches, vit. clay pipe main sanitary sewer with wyes, manholes, vit. clay pipe laterals, w. l. water service connections and concrete meter boxes. 1911 Act. Hearing March 9. S. A. Evans, city clerk. Roy Fowler, city engineer.

SANTA CLARA, Santa Clara Co., Calif.—Hanrahan Co., Standard Oil Building, San Francisco, at \$10,997 awarded contract by city trustees to improve Campbell Ave. and Belomy St., involving:

- 75,000 sq. ft. 2-in. asph. surf., \$647;
- 76,000 sq. ft. 4-in. do., \$8857;
- 150 sq. ft. concrete gutters, \$20;
- 100 lin. ft. concrete curbs, \$35;
- 6,000 sq. ft. cement walks, \$15;

Complete list of unit bids received on this project published in issue of Feb. 4.

OAKLAND, Cal.—Until February 26 12 noon, bids will be received by F. C. Merritt, city clerk, to improve portions of Fruitvale Ave. near the Tidal Canal, forming northern approach to Fruitvale Ave. bridge, involving:

- (1) 99 lin. ft. concrete curb;
- (2) 99 lin. ft. concrete butters;
- (3) 1,946 sq. ft. 6-in. asph. conc. pave. with 1 1/2-in. asph. binder and 1 1/2-in. asph. surface;
- (4) 797 sq. ft. existing pavement and gutters to be resurfaced with asphalt concrete;
- (5) 1 manhole;
- (6) 1 storm water inlet;
- (7) 43 lin. ft. 10-in. concrete pipe conduit.

Certified check 10% payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

SALINAS, Monterey Co., Cal.—James L. Connor, Seaside and Del Monte, Monterey, at \$15,879.50 awarded contract by county for grading a portion of the Soledad-King City Road from a point 5 miles south of Soledad to a point 2 miles north of Coburn, in Supervisor District No. 3, involving 95,000 cu. yds. Following is a complete list of the bids:

James L. Connor.....	\$15,879
Karstedt & Karstedt, Watsonville.....	18,138
San Jose Excavation Co., S. J. 18,277	
Lilly, Willard and Bassotti, Stockton.....	22,016
E. V. Heple, Salinas.....	24,473
Larsen Bros.,.....	23,528
Healy-Tibbitts Const. Co., San Francisco.....	24,217
Granite Const. Co., Watsonville.....	24,949
Charles Kelly, Salinas.....	25,154
W. A. Dontanville, Salinas.....	25,328
Delta Dredging Co.,.....	26,933
O. A. Lindberg.....	28,085
R. L. Oakley, Salinas.....	28,658
L. W. Heffe.....	30,120
W. K. McMillan.....	30,953

CLARK COUNTY, Nevada—Pat Cline, Inc., Las Vegas, Nev., at \$55,266.76 submitted low bid to State Highway Commission for grading, structures and gravel surfacing on 16.5 miles from Las Vegas to 10 miles southeast. Quantities of materials involved published in issue of Feb. 3. Complete list of bids follow:

Pat Cline, Inc., Las Vegas.....	\$55,266
A. D. Drummer Jr., Fallon, Nev.....	62,695
G. H. Oswald, Los Angeles.....	65,066
Dodge Bros., Fallon, Nev.....	74,795
Trangle Rock & Gravel Co., San Bernardino.....	76,436
F. W. Nighbert, Bakersfield.....	85,282
Engineer's estimate.....	89,282

SAN LUIS OBISPO, San Luis Obispo Co., Cal.—As previously reported, city council declares intention (346) to improve Pacific street from Santa Rosa St. to Higuera St. Project involves:

- (1) 156,000 sq. ft. 6-in. to 8-in. concrete pavement;
- (2) 29,300 sq. ft. walk;
- (3) 3898 ft. curb.

Est. cost \$40,000. 1911 Act. Bond Act 1915. Hearing March 2. Callie M. John, city clerk. Leon Moore, city engineer.

PALO ALTO, Santa Clara Co., Cal.—As previously reported, city council declares intention (962) to improve Palo Alto Ave., Hale, Pope and Dana Sts., Forest Court, Addison and Harker Aves., Webster St., Embarcadero Road, Lane "E" East, Santa Rita Ave., Sherman Ave., Princeton, Oberlin and Harvard Sts. Project involves:

- (1) 356,743 sq. ft. grading;
- (2) 308,520 sq. ft. 6" concrete pavement;
- (3) 14,356 lin. ft. concrete curbing;
- (4) 33,137 sq. ft. 4" cement sidewalk
- (5) 615 lin. ft. 6" sewer;
- (6) 690 lin. ft. 6" C. I. water main;
- (7) 750 lin. ft. 2" W. I gas main;
- (8) 1 fire hydrant;
- (9) 3 manholes;
- 10) 83 4" sewer connections;
- (11) 83 3/4" water connections;
- (12) 18 3/4" gas connections.

Estimated cost, \$73,300. 1911 Act. Hearing Feb. 25, 7:30 P. M., E. L. Beach, city clerk. J. F. Bysbee Jr., city engineer.

SAN JOSE, Santa Clara Co., Cal.—Until March 2, 8 P. M., bids will be received by John J. Lynch, city clerk, (5283) to improve Emory St., bet. Dana Ave. and Park Ave., and a portion of Park Ave., involving grading, 1 1/2-in. asphaltic concrete surface pavement on 2 1/2-in. asphaltic concrete base with 3-in. gravel cushion, cement concrete curbs and walks, 4-in. vitrified sewer laterals, cement concrete storm water inlets, etc. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Wm. Popp, city engineer.

MARIN COUNTY, Cal.—Until March 10, 2 P. M., bids will be received by H. W. Rhodes, superintendent of lighthouses, 424 Customhouse, San Francisco, for constructing 2.5 miles of road in Marin County, extending from Drake's Bay into the Point Reyes Lighthouse Reservation; road to have surface of decomposed granite approximately 13 feet wide. Plans obtainable from above office on deposit of \$10, returnable.

SAN FRANCISCO—Until March 4, 2:30 P. M., new bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Bradford St. bet. Cortland Ave. and Powhattan St., involving:

- (1) 167 lin. ft. concrete curb;
- (2) 25 in. ft. 6-in. V.C.P. side sewers;
- (3) 2004 sq. ft. 6-in. class E concrete pavement.

Low bidder under previous call, was H. Armstrong, 1950 Folsom St., at \$773.16. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor City Hall.

SAN FRANCISCO—Board of Public Works rejects bids received January 21 to improve Campbell Avenue bet. Alpha and Rutland Sts., M. Bertolino, 23 Shotwell St. being low bidder at \$3,927.60. Federal Construction Co., \$4,803.95 only other bidder. Unit bids published in issue of Jan. 23.

SANTA BARBARA, Cal.—Until 10 A. M., March 9 bids will be received by the Santa Barbara county supervisors for grading and draining a portion of the county highway, known as Sections 2A and 2B, San Julian Road Project, located in the San Julian Rancho, in the San Joaquin District. O. W. O'Neill, county surveyor. Certified check or bond, 10%. Plans may be obtained on deposit of \$10.

SANTA MARIA, Santa Barbara Co., Cal.—City declares intention to improve Cook St. bet. Suez Ave. and Lincoln Ave., and Cypress St. from Broadway to Lincoln Ave., including grading, 4-in. asph. concrete pavement, gutters and curbs. York Peterson, city engineer. Mrs. Flora Rivers, city clerk.

SONORA, Tuolumne Co., Cal.—W. C. Colley, 35 North Hampton Street, Berkeley, at \$6,985 awarded contract by county to supervisors to extend Quintara Big Hill-Longeway road, east of Columbus, a distance of 13,367-ft. Road will be 20-ft. wide with maximum grade of 6%. Project involves: 17,500 cu. yds. excavation, including clearing right of way and retaining walls;

768 ft. 12-in. culvert pipe;
294 ft. 15-in. do;
28 ft. 30-in. do;
36 ft. 36-in. do;

Complete list of bids follows:
W. C. Colley, Berkeley.....\$ 6,985
D. R. Hanly, Sonora.....6,988
Pacific Const. Co., Oakland.....11,393
Larson Bros., Galt.....12,232
Chas. W. Chittenden, Napa.....12,387

SAN FRANCISCO.—Bureau of Engineering, Department of Public Works 3rd floor, City Hall, completes specifications to improve crossing of Quintara and 33rd Ave., and Quintara St. bet. 33rd and 34th Aves.; estimated cost \$4,600. Project involves:

- (1) 600 cu. yds. excavation;
- (2) 84 lin. ft. armored concrete curb;
- (3) 84 cu. yd. catchbasins;
- (4) 105 lin. ft. 10-in. V.C.P. culvert;
- (5) 245 lin. ft. 21-in. V.C.P. sewers;
- (6) 16 Y or T branches on 21-inch sewer;
- (7) 40 lin. ft. 8-in. V.C.P. sewer;
- (8) 36 brick manholes;
- (9) 560 sq. ft. 1-course concrete sidewalks;
- (10) 4893 sq. ft. asph. conc. pavement, 2-in. asph. conc. surface on 6-in. class F concrete base.

MENDOCINO COUNTY, Cal.—As previously reported, bids will be received March 18, 2 P. M., by State Highway Commission to improve 13.5 miles of highway between Pepperwood and Little Dann Creek, about 5.5 miles to be graded and about 13.5 miles to be surfaced with bituminous treated crushed gravel or stone surfacing, road mixed. Project involves:

- (1) 56 acres clearing and grubbing right-of-way;
- (2) 682,650 cu. yds. roadway excavation without class;
- (3) 2,130,000 sta. yds. overhaul;
- (4) 9500 cu. yds. structure excavation (1) 2150 cu. yds. class A Portland cement concrete (structures);
- (5) 214,400 lbs. bar reinf. steel (structures);
- (7) 19,450 cu. yds. creek run gravel (base and shoulders);
- (8) 23,890 cu. yds. untreated crushed gravel or stone surfacing;
- (9) 1750 M. gallons water applied to surfacing;
- (10) 960 tons cut-back asphalt, grade 7;
- (11) 134 miles mixing cut-back asphalt and crushed gravel or stone surfacing;
- (12) 555 cu. yds. rubble masonry (retaining walls and ditch lining);
- (13) 4050 reinf. Portland concrete units (slope paving);
- (14) 2880 lin. ft. 18-in. corr. metal pipe;
- (15) 180 lin. ft. 36-in. corr. metal pipe;
- (17) 110 lin. ft. 42-in. corr. metal pipe;
- (18) 564 lin. ft. 48-in. corr. metal pipe;
- (19) 150 lin. ft. 18-in. part circle corr. metal pipe;
- (20) 6545 lin. ft. 8-in. perforated metal pipe underdrains;
- (21) 150 lin. ft. corr. metal pipe, clean and relay;

(22) 1 only, concrete bridge deck removed and disposed of;

(23) 600 each, timber guide posts and culvert markers;

(24) 177 each, inouments complete in place;

(25) 172 sta. finishing roadway.

The state will furnish corrugated metal pipe, part circle pipe, steel frames and covers for drop inlets, and timber guide posts and culvert markers.

OAKLAND, Cal.—Lee J. Immel, 1051 Evelyn St. Berkeley, at \$30,735 awarded contract by city council to improve portions of Eighth St., Fallon St. and the extension of Tenth St., involving:

- (1) 7,548 cu. yds. fill, \$35;
- (2) 1,356 cu. yds. excavation, \$35;
- (3) 100 cu. yds. material in excavation below subgrade to be removed and replaced with filling material, \$2;
- (4) 322 lin. ft. wood curb, \$30;
- (5) 4,779 lin. ft. concrete curb, \$40;
- (6) 4,781 sq. ft. concrete gutter, \$23;
- (7) 9,225 sq. ft. asphaltic concrete pavement (asphaltic concrete surface, 2-inch thick, laid upon a Portland cement concrete foundation, 6-in. thick), \$23;
- (8) 127,088 sq. ft. penetration macadam pavement, \$11;
- (9) 2,411 sq. ft. existing pave. to be resurfaced with asph. conc., \$14;
- (10) 21,562 sq. ft. cem. sidewalk, \$14;
- (11) 235 lin. ft. 6-in. by 22-in. wooden culvert, \$80;
- (12) 2 manholes with inlet tops (34-in. opening), \$65.

Complete list of unit bids on this project published in issues of Feb. 13 and 24.

SALINAS, Monterey Co., Calif.—S. Ruthven, Railroad Ave., Monterey, at \$2610 awarded contract by county for grading a portion of the Monterey-Castroville Road, 1 mile north of Seaside in Supervisor District No. 5, involving 14,000 cu. yds. Following is a complete list of the bids:

S. Ruthven, Monterey.....\$2,610
Jas. L. Connor, Monterey.....2,900
Granite Const. Co., Watsonville 3,489

HAYWARD, Alameda Co., Cal.—City Engineer Jesse B. Holly preparing estimates of cost to widen Castro street, between A and B Sts., and A street between Castro and Main streets.

spans with concrete deck on steel pipe bents.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bids, contract and specifications may be obtained at the said office and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State.

DEPARTMENT OF PUBLIC WORKS,
DIVISION OF HIGHWAYS.
C. H. PURCELL,
State Highway Engineer
Dated February 13, 1931.

QUALITY WELDING VIA HEAVY ELECTRODE

The General Electric Company announces a new heavy coated electrode, designated type R, for quality welding. This particular type of electrode is composed of .13 to .18 carbon steel covered with a heavy coating of cotton braid impregnated with an arc stabilizing flux and will be available in diameters from 1/8 to 3/8" by 18" length.

Metal deposits of this electrode will have high tensile strength and will produce a homogeneous structure resulting in a ductile weld. This is caused by the fact that, during the arc transference period, the metal is in a protective atmosphere because the electrode itself burns away quicker than the coating and excludes those elements always prevalent in atmosphere which cause some undesirable results when the use of an uncoated rod is used.

Extreme arc stability and high arc voltages permissible from this type of electrode produce an unusual high speed of welding for certain applications.

The new electrode is expected to be of particular value in the field of pipe line welding where speed and ductility are essential requirements.

OFFICIAL PROPOSALS

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on March 18, 1931, at which time they will be publicly opened and read, for construction in accordance with the specifications therefore, of which special reference is made, of portions of State Highway, as follows:

Mendocino County, between Pepperwood School and Little Dann Creek (1-Men-1-H & I), about thirteen and five-tenths (13.5) miles in length; about five and five-tenths (5.5) miles to be graded and about thirteen and five-tenths (13.5) miles to be surfaced with bituminous treated crushed gravel or stone surfacing, road mixed.

San Bernardino County, a bridge across Lytle Creek about 2 miles west of San Bernardino (VII-SBD-9-C), consisting of five 35-foot steel stringer

Contracts Awarded Licns, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
215	Baggs	Owner	4000
216	McDonald	Owner	2500
217	Gordon	Irwin	2800
218	California	Barrett	2500
219	Stoneson	Owner	18000
220	Heyman	Owner	6400
221	Japanese	Irwin	4500
222	Sharman	Owner	7000
223	Christensen	Owner	14000
224	Weber	Ohlsen	2500
225	Samuelson	Owner	6000
226	Rogalia	Tuomisto	5000
227	Samuelson	Owner	3500
228	Anderson	Owner	6000
229	Rogers	Owner	4000
230	Kavanaugh	Owner	3500
231	Lennan	Swanson	4000
232	Dexter	Duerner	3000
233	Gunderson	Johnson	4500
234	Standard	Owner	4000
235	Wesendunk	Owner	4000
236	McAfee	Owner	7000
237	Anderson	Owner	3500
238	Plagge	Owner	4500
239	Grossman	Owner	4000
240	Amatore	Owner	12000
241	Blum	Owner	4000
242	Cosgrove	Jacks	6000
243	Hornlein	Coburn	1000
244	Johnsen	Westerlund	4500
245	Kaspersk	Morris	3000
246	Pacific Coast	Owner	5000
247	Van Ness	Coburn	1000
248	Kane	Barrett	2000
249	Brown	Young	48137
250	Blum	Owner	4000
251	Pickett	McFarland	2000
252	Godin	Owner	7500
253	Stich	Owner	2500
254	General	Sorensen	6500
255	Carraro	Owner	3350

DWELLING
(215) E 34th AVE. 275 S Ulloa St.; one-story and basement frame dwelling.
Owner and Builder—M. Baggs, De Young Bldg.
Architect—Not Given. \$4000

DWELLING
(216) N PERALTA 190 E Hampshire St.; one-story and basement frame dwelling.
Owner—P. McDonald, 1049 Treat Ave.
Architect—Not Given. \$2500

REPAIRS
(217) 1724 BUCHANAN ST.; repair fire damage.
Owner—Mrs. Gordon, 1726 Buchanan.
Architect—Not Given.
Contractor—J. J. Irwin, 1040 Oak St. \$2800

ALTERATIONS
(218) SE SPRING and California; alterations to store.
Owner—California Market Properties Co., Merchants' Exchange Bldg.
Architect—C. W. Kelham, 315 Montgomery St.
Contractor—Barrett & Hilp, 918 Harrison St. \$2500

DWELLINGS
(219) E 23rd AVE. 25 S Ulloa; six one-story and basement frame dwellings.
Owner and Builder—Stoneson Bros. & Thorinson Bros., 279 Yerba Buena.
Plans by Owners. each \$3000

DWELLINGS
(220) E 17th AVE. 110 S Pacheco; 2 one-story and basement frame dwellings.

Owner and Builders—Heyman Bros., 742 Market St.
Plans by Owners. each \$3200

REPAIRS
(221) 1723 BUCHANAN ST.; repair fire damage.
Owner—Japanese Episcopal Mission, 1728 Buchanan St.
Architect—Not Given.
Contractor—J. J. Irwin, 1040 Oak St. \$4500

DWELLINGS
(222) S PALOU 225 W Keith St.; 2 one-story and basement frame dwellings.
Owner—T. R. Sharman, 1514 Irving St.
Plans by Owner. each \$3500

DWELLINGS
(223) W 21st AVE. 150 N Judah St.; four 1-story and basement frame dwellings.
Owner and Builder—H. Christensen, 1422 27th Ave.
Plans by Owner. each \$3500

DWELLING
(224) N MORAGA 95 W 21st Ave.; one-story and basement frame dwelling.
Owner—E. Weber, 242 Vienna.
Plans by Mr. Ohlsen.
Contractor—A. H. Ohlsen, 2569 Harrison St. \$3500

DWELLING
(225) GORE Kenwood Way and Up-land Drive; two-story and basement frame dwelling.
Owner and Builder—A. M. Samuelson, 901 Geneva Ave.
Plans by W. R. Weisheimer, 9 24 Prague. \$6000

DWELLING
(226) SW COR. 21st and Douglas; one-story and basement frame dwelling.
Owner—C. Regalia, 25 Romaine St.
Plans by Mr. Tuomisto.
Contractor—W. E. Tuomisto, 2580 San Bruno Ave. \$5000

DWELLING
(227) SE LATHROP and Tunnel Sts.; one-story and basement frame dwelling.
Owner and Builder—A. M. Samuelson, 901 Geneva Ave.
Plans by W. R. Weisheimer, 9 24 Prague St. \$3500

DWELLING
(228) SW MONTEREY BLVD. AND Westgate Drive; two-story and basement frame dwelling.

Owner—S. R. Anderson, 1433 7th ve.
Plans by D. E. Jaekle, Call Bldg. \$6000

DWELLING
(229) E 16th AVE. 125 S Vicente; 1-story and basement frame dwelling.
Owner—S. R. Anderson, 1433 7th Ave.
Plans by Owner. \$4000

DWELLING
(230) W 30th AVE. 175 S Rivera; 1-story and basement frame dwelling.
Owner—D. S. Kavanaugh, 1121 Ordway.
Plans by Owner. \$3500

DWELLING
(231) E 32nd AVE. 100 S Irving St.; one-story and basement frame dwelling.
Owner—J. Lennan, 1322 32nd Ave.
Architect—Not Given.
Contractor—O. Swanson, 3539 Market Street. \$4000

DWELLING
(232) E 22nd AVE. 100 S Moraga; one-story and basement frame dwelling.
Owner—C. M. Dexter, 26 Edinburgh.
Plans by J. C. Duerner.
Contractor—J. C. Duerner, 26 Edinburgh St. \$3000

DWELLING
(233) SW SANTA MARIA and Elsie; one-story and basement frame dwelling.
Owner—S. Gunderson, 113 Lunday Lane.
Architect—Not Given.
Contractor—P. P. Johnsen, 225 Lincoln Way. \$4500

DWELLING
(234) E FUNSTON AVE. 190 S Taraval; 1-story and basement frame dwelling.
Owner and Builder—Standard Bldg. Co., 218 Castaneda.
Architect—None. \$4000

DWELLING
(235) W CAYUGA 120 S Santa Rosa; one-story and basement frame dwellings.
Owner—A. A. Wesendunk, 1625 San Jose Ave.
Plans by B. K. Dobkowitz, 425 Montecery Blvd. \$4000

DWELLINGS
(236) S JOOST 150 E Acadia; two 1-story and basement frame dwellings.
Owner and Builder—F. McAfee, 771 Hanover St.
Architect—Not Given. each \$3500

DWELLING
(237) W 16th AVE. 300 N Rivera; one-story and basement frame dwellings.
Owner and Builder—E. A. Anderson, 1177 De Haro St.
Architect—Not Given. \$3500

DWELLING
(238) E 30th AVE. 100 N Kirkham; one-story and basement frame dwellings.
Owner—A. A. Plagge, 1474 30th Ave.
Plans by Owner. \$4500

DWELLING
(239) S BRUCE 150 E Edgar; one-story and basement frame dwelling.

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - - California

Owner and Builder—W. E. Grossman, 47 Curtis St. \$4000
Plans by Owner.

PARTMENTS
 40) NW COR. HAMPSHIRE AND 26th Sts.; two-story and basement frame (5) apartments.
Owner—F. Amatore, 1392-A Hampshire St. \$12,000
Plans by Owner.

WELLING
 41) S SILLIMAN 81 W Brussels; one-story and basement frame dwelling.
Owner—Cosgrove & Co., 343 Sansome man St.
Architect—Not Given. \$4000

LITERATIONS
 43) 771 SACRAMENTO ST.; repair for offices.
Owner—Cosgrove & Co., 343 Sansome.
Architect—Hyman & Appleton, 68 Post Street.
Contractor—Jacks & Irvine, 74 New Montgomery St. \$6000

REPAIRS
 43) 771 SACRAMENTO ST.; repair fire damage.
Owner—E. Horalain, Humboldt Bank Bldg.
Architect—Not Given.
Contractor—I. W. Coburn, 2048 Market St. \$1000

WELLING
 44) W 14th AVE. 280 S Taraval; one-story and basement frame dwelling.
Owner—K. and G. Johnson.
Architect—C. F. Strothoff, 2274 15th Street.
Contractor—J. V. Westerlund, 2 3 5 5 25th Ave. \$4500

WELLING
 45) N ST. ROSE AVE. 60 West Johnston; one-story and basement frame dwelling.
Owner—Mrs. Kaspersk, 1182 Market Street.
Architect—Not Given.
Contractor—Morris & Weiner, 1 1 8 2 Market St. \$3000

UNKERS
 46) 16th and ALAEMA STS.; 1-story frame bunkers.
Owner—Public Coast Aggregates, Inc., 85 Second St.
Plans by A. Kienz, 85 2nd St. \$5000

REPAIRS
 47) 1921 OCTAVIA ST.; repair fire damage.
Owner—T. C. Van Ness, 1921 Octavia.
Architect—Not Given.
Contractor—I. W. Coburn, 2048 Market St. \$1000

LITERATIONS
 48) NE BUSH ST. and Grant Ave.; alterations to cafe entrance and alterations to stores.
Owners—Dr. Kane and Mr. Yore.
Architect—E. Eames, 353 Sacramento Street.
Contractor—Barrett & Hlip, 918 Harrison St. \$3000

RESIDENCE
 49) N BROADWAY 40 W Baker; three-story and basement frame residence.
Owner—Dr. A. Lincoln Brown, Medical-Dental Bldg.
Architect—Bakewell & Weihe, 251 Kearny St.
Contractor—Young & Horstmeyer, 461 Market St. \$48,137

WELLING
 250) S SILLIMAN 120 W Hamilton; one-story and basement frame dwelling.
Owner and Builder—J. Blum, 212 Silliman St.
Architect—Not Given. \$4000

SERVICE STATION
 (251) NW MISSION and Steuart Sts.; one-story class C service station.
Owner—J. McKett, NW corner Mission and Steuart Sts.
Plans by D. E. Jaekle, Call Bldg.
Contractor—J. H. McFarland, 291 27th Avenue. \$2000

DWELLINGS
 (252) N KIRKHAM 32 E 27th Ave.; two 1-story and basement frame dwellings.
Owner—G. V. Godin, 6 8 6 Monterey Blvd.
Plans by B. K. Dobkowitz, 425 Monterey Blvd. each \$3750

DWELLING
 (253) E 19th AVE. 225 S Taraval St.; one-story and basement frame dwelling.
Owner—F. M. Stich, 1155 Taraval St.
Plans by G. M. Cantrell. \$3500

SERVICE STATION
 (254) NE 22nd and HOWARD STS.; one-story steel frame service station.
Owner—General Petroleum Corp., Parr Terminal, Oakland.
Plans by Owner.
Contractor—Sorensen & Hagmark, 2622 Harrison St. \$6500

DWELLING
 (255) N FELTON 78 W Bowdoin; 1-story and basement frame dwelling.
Owner—G. Carraro, 750 Felton St.
Plans by Owner. \$3350

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Am't.
41	S & G	Barrett	20000
42	S P Co	Municipal	
43	Kaspehsk	Morris	3250
44	Brown	Young	48137

REPAIRS
 (41) SW PACIFIC and Trenton Pl.; repair garage and service station.
Owner—S. & G. Gump Realty Co., 246 Post Street.
Architect—Not Given.
Contractor—Barrett & Hlip, 918 Harrison Street.
 Filed Feb. 19, '31. Dated Feb. 14, '31.
 5th of each month for labor and material installed during previous month.
 Balance usual 35 days.
TOTAL COST not to exceed \$20,000.
Contractor to receive \$1,000
Limit, 60 days. Plans and Spec. filed.

STREET IMPROVEMENT
 (42) JAMESTOWN AVE. bet. 3rd St. and Salinas Ave.; intersection of Jamestown Ave. and Salinas Ave.; on Salinas Ave. from Jamestown to 60 NW Gould St.; improving streets.
Owner—Southern Pacific Company.
Architect—Not Given.
Contractor—Municipal Const. Co., Call Bldg.
 Filed Feb. 24, '31. Dated Feb. 16, '31.
 1st of each month.....75%
 Usual 35 days.....25%
TOTAL COST Not Given.
Bond, \$7627.42. Sureties, U. S. Guarantee Co. Limit, 90 days. Plans and Spec. filed.

BUILDING
 (43) 710 ST. ROSE; all work on one-story frame building.
Owner—Mrs. M. Kaspersk, 90 Johnston Ave.
Architect—Not Given.
Contractor—R. S. Morris, H. H. Welner, 1182 Market St.
 Filed Feb. 25, '31. Dated Feb. 19, '31.
 Frame up.....\$650
 1st coat plaster on.....650

Finish plaster on.....650
 Completed and accepted.....650
 Usual 35 days.....650
TOTAL COST, \$23250
 Limit, 90 days.

RESIDENCE
 (44) N BROADWAY 40 W Baker St. W 57-3 N 137-6; all work on residence.
Owner—Dr. A. L. Brown, Medical-Dental Bldg.
Architect—Bakewell & Weihe, 251 Kearny St.
Contractor—Young & Horstmeyer, 461 Market St.
 Filed Feb. 25, '31. Dated Feb. 24, '31.
 15th of each month.....75%
 Usual 35 days.....25%
TOTAL COST, \$48,137
Bond, \$48,137. Sureties, Hartford Accident & Indemnity Co. Forfeit, \$25.
Limit, Sept. 1, 1931. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded Accepted
 Feb. 21, 1931—N KIRKHAM 107-6 W 27th Ave 25x100. Ray Allison to whom it may concern. Feb. 21, 1932
 Feb. 21, 1931—NO. 550 CALIFORNIA The San Francisco Bank to Chas W Heyer Jr..... Feb. 11, 1931
 Feb. 20, 1931—W 24th AVE 50 N Wawona N 25 x W 90. Castle Bldg Co to Henry Horn..... February 18, 1931
 Feb. 20, 1931—E 28th AVE 225 S Rivera S 25 x E 120. C and F Gellert to whom it may concern..... February 20, 1931
 Feb. 20, 1931—SW THIRD ST 70 SE Market SE 25 x SW 75. Alexander Boyd Estate to A E and C W Mattock..... February 19, 1931
 Feb. 19, 1931—E NEVADA 95 North Cortland Ave 30x100. A L Gray to whom it may concern..... February 19, 1931
 Feb. 19, 1931—E CLEMENTINA and 9th Ave NE 100 x SE 75. Lawrence A Myers to Oscar W Britt..... February 18, 1931
 Feb. 19, 1931—NE UPLAND DRIVE and NW bdy line lot 11 blk 3275 map Mt Davidson Manor N 28 deg 32 min 24 sec E 93-915 SE 40-198 to a pt running th 25 deg 32 min 24 sec W 32-956 NW 40-114 to beg pt lot 11 blk 3275 Mt Davidson Manor. Geo O Bendon to whom it may concern..... February 19, 1931
 Feb. 19, 1931—N 15th 111-3 1/2 West Guerrero W 47-11 N 127 E 31-10 1/2 S 128-3. Isabella McLean to whom it may concern..... February 17, 1931
 Feb. 18, 1931—E 21st Ave 100 North Lawton 25x120. August Hallgren to whom it may concern..... February 16, 1931
 Feb. 18, 1931—SE MINNA 175 SW 7th SW 25x50. Wm D Cashel to whom it may concern..... February 18, 1931
 Feb. 18, 1931—E ROCKAWAY AVE and W line lot 15 blk 2916 map Laguna Honda Park Addn th S 79 deg 40 min 10 sec W 0-131 W 152-856 NW 40-753 N 11 deg 57 min E 55-926 SE 40-404 SW 37-397 Ave Y Lang Jr to whom it may concern..... February 10 1931

LIENS FILED

San Francisco County

Feb. 19, 1931—E HAMILTON 175 S Felton th 50 x E 120 blk 35 R R Hd Assn. Roma Harwood Floor Co vs Wm J and Gertrude Bernell..... \$150
 Feb. 19, 1931—NW HOWTH 25 NE Mt Vernon Ave NE 25 x NW 90. S P and C Meda as Meda Art Tile Co vs Arthur Dockwell..... \$126

RELEASE OF LIENS

San Francisco County

Recorded Amount
 Feb 20, 1931—SW KIRKHAM and
 18th Ave S 50 x W 95. Frank J
 Shannon to Michael D and Mary
 A Hardiman
 Feb 9, 1931—NE SENECA AVE 50
 NW Mission NW 43 x NE 50. The
 S F Glass Co, Calif Terrazzo Mar-
 ble Co, M Desiano, San Francisco
 Hdw Co, Roma Hardwood Floor
 Co, Gregory & Co, Progressive
 Tile & Mantel Co, Sam Patania,
 South City Lumber & Supply Co,
 Spediacel Bros, G Mazzer, Co to
 Emerunda and Michael Miraglia,
 E Evangelisti

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
185	Tammil	Owner	5000
184	Adams	Anderson	4000
188	Erenner	Owner	2000
189	Barham	Barham	3600
190	MacGregor	Owner	1950
191	Same	Same	1950
192	Same	Same	1950
193	Adams	Anderson	3500
194	Adams	Anderson	4000
195	Reinlinghaus'	Owner	3000
196	Adams	Anderson	4000
196	McInnes	Owner	2000
197	MacGregor	Owner	1950
198	Same	Same	1950
199	Fleming	Owner	3950
200	Tourist	Harwood	2000
201	Flagg	Watson	3000
202	Krogh	Jensen	21200
203	Safeway	Owner	1000
204	Gordon	DeVelbiss	1500
205	Zukor	Owner	1800
206	Brusasco	Peppino	2300
207	Owl	Owner	2000
208	Halstead	Pickrell	3000
209	Neal	Yerrick	4500
210	Haavik	Owner	3500
211	Williamson	Owner	2000
212	Monez	Owner	3000
213	West	Leekins	3000
214	Sweet	Owner	1500
215	Woodburn	Owner	9900
216	Busch	Constable	4000
217	Hyde	Owner	1800
218	Mitchell	Dolan	4900
219	Oak Knoll	Wongrillite	2400
220	U S L	Owner	5000
221	University	Sorncson	55475
RESIDENCE			
(185)	No. 1544 - 46 - 48 CHANNING Way, BERKELEY.	One-story 9- room 3-family frame residence.	
Owner—Chas. Tammil, 1541 Channing Way, Berkeley.			
Architect—Not Given.		\$5000	
DWELLING			
(186)	710 POMONA AVE., ALBANY;	six-room dwelling.	
Owner & Builder—D. E. Adams, 1047 Ordway St., Albany.			
Plans by P. R. Anderson, 620 E 14th Street, Oakland.			\$4000
DWELLING			
(187)	704 POMONA AVE., ALBANY;	six-room dwelling.	
Owner & Builder—D. E. Adams, 1047 Ordway St., Albany.			
Plans by P. R. Anderson, 620 E 14th Street, Oakland.			\$4000
BUILDING			
(188)	824 STANNAGE AVE., AL- BANY;	four-room stucco building.	
Owner and Builder—F. O. Erenner, 826 Cornell Ave., Albany.			
Architect—Not Given.			\$2000
DWELLING			
(189)	815 TALBOT AVE., ALBANY;	five-room dwelling.	
Owner—C. L. Barham, 1005 American Bank Bldg., Oakland.			

Architect—A. W. Smith, American
Bank Bldg., Oakland.
 Contractor—Barham Co., American
Bank Bldg., Oakland. \$3600

DWELLING
 (190) 927 MASONIC AVE., ALBANY;
 five-room dwelling and garage.
 Owner and Builder—C. M. MacGregor,
470 13th St., Oakland.
 Architect—Not Given. \$1950

DWELLING
 (191) 949 MASONIC AVE., ALBANY;
 five-room dwelling and garage.
 Owner and Builder—C. M. MacGregor,
470 13th St., Oakland.
 Architect—Not Given. \$1950

DWELLING
 (192) 961 MASONIC AVE., ALBANY;
 five-room dwelling and garage.
 Owner and Builder—C. M. MacGregor,
470 13th St., Oakland.
 Architect—Not Given. \$1950

DWELLING
 (193) 706 POMONA AVE., ALBANY;
 five-room dwelling.
 Owner and Builder—D. E. Adams, 1047
Ordway St., Albany.
 Plans by P. R. Anderson, 620 E 14th
St., Oakland. \$3500

DWELLING
 (194) 708 POMONA AVE., ALBANY;
 five-room dwelling.
 Owner and Builder—D. E. Adams, 1047
Ordway St., Albany.
 Plans by P. R. Anderson, 620 E 14th
St., Oakland. \$4000

DWELLING
 (195) 1515 FRANCIS ST., ALBANY;
 four-room dwelling.
 Owner and Builder—E. Reinlinghaus,
2717 Channing Way, Berkeley.
 Architect—Not Given. \$3000

DWELLING
 (196) 634 ADAMS ST., ALBANY; 4-
room dwelling.
 Owner and Builder—Wm. K. McInnes,
648 San Pablo Ave., Albany.
 Plans by Owner. \$2000

DWELLING
 (197) 948 MASONIC AVE., ALBANY;
 five-room dwelling and garage.
 Owner and Builder—C. M. MacGregor,
470 13th St., Oakland.
 Architect—Not Given. \$1250

DWELLING
 (198) 955 MASONIC AVE., ALBANY;
 five-room dwelling and garage.
 Owner and Builder—C. M. MacGregor,
470 13th St., Oakland.
 Architect—Not Given. \$1950

(199) 4177 MONTEREY BLVD., OAK-
LAND; one-story 6-room dwell-
ing.
 Owner and Builder—John Fleming,
4261 Suter St., Oakland.
 Architect—Not Given. \$3950

ADDITION
 (200) 8115 BUTTERS DRIVE, OAK-
LAND; addition.
 Owner—Tourist Club, 2115 Butters Dr.,
Oakland.
 Architect—Not Given.
 Contractor—W. P. Harwood, 3514 Ly-
on St., Oakland. \$2000

DWELLING
 (201) W MT. BLVD. 240 N Redwood
Road, OAKLAND; one-story five-
room dwelling.
 Owner—J. S. Flagg.
 Architect—Not Given.
 Contractor—Wm. Watson, 4700 Meldon
Ave., Oakland. \$3000

RESIDENCE
 (202) No. 191 ESTATES DRIVE,
PIEDMONT. Two-story 10-room
frame residence and garage.
 Owner—Miss Mary Krogh.

Architect—Miller & Warnecke, 14
and Franklin Sts., Oakland.
 Contractor—Jensen-Pedersen, 34
Adeline St., Oakland. \$2120

ALTERATIONS
 (203) NO. 2235 SHATTUCK AVE
BERKELEY. Alterations.
 Owner—Safeway Stores, Inc., 4th ar
Jackson St., Oakland.
 Architect—Not Given. \$100

ALTERATIONS
 (204) 768 85th AVENUE, OAKLAND;
alterations and additions.
 Owner—Gordon Allen, Ltd., 768 85th
Avenue.
 Architect—Not Given.
 Contractor—C. Dudley DeVelbiss, 31
Hobart St., Oakland. \$150

ALTERATIONS
 (205) 1311 WASHINGTON ST., OAK-
LAND; store front alterations.
 Owner & Builder—Zukor, 1311 Wash-
ington St., Oakland.
 Architect—Not Given. \$180

DWELLING
 (206) 8 46th ST. 29 E West Stree
OAKLAND; one-story four-
room dwelling.
 Owner—John Brusasco, 4925 Telegraf
Ave., Oakland.
 Architect—Not Given.
 Contractor—Peppin & Johnson, 221
50th Ave., Oakland. \$200

CLEANING BLDG.
 (207) NO. 2008 CHESTNUT ST
ALAMEDA. One-story concrete
cleaning building.
 Owner—Owl Cleaners & Dyers, 200
Chestnut St., Alameda.
 Architect—Richard C. Schuppert, 46
Park Blvd., Oakland. \$200

DWELLING
 (208) NO 1031 COLLEGE AVE,
ALAMEDA. One-story 5-room
frame and stucco dwelling.
 Owner—Chris. Halstead, 1324 Versaill
Ave., Alameda.
 Plans by J. H. Pickrell, 332 Sant
Clara Ave., Alameda
 Contractor—J. H. Pickrell, 332 Sant
Clara Ave., Alameda. \$300

DWELLING
 (209) NO. 1812 YALE DRIVE, ALA-
MEDA. One-story 5-room fram
and stucco dwelling.
 Owner—Al Neal, Alameda.
 Plans by Owner.
 Contractor—A. J. Yerrick, 223 Blak
Bldg., Oakland. \$450

DWELLING
 (210) N1. 1315 BROADWAY, ALA-
MEDA. One-story 5-room fram
and stucco dwelling.
 Owner—Soven Haavik, 1025 Morto
St., Alameda.
 Plans by Owner. \$350

ALTERATIONS
 (211) NO 2055 UNIVERSITY AVE
BERKELEY. Alterations.
 Owner—L. W. Williamson, 2816 Oa
Knoll Terrace, Berkeley.
 Architect—Not Given. \$200

DWELLING
 (212) 1925 CLEMENS ROAD, OAK
LAND; one-story 5-room dwelling
 Owner and Builder—A. H. Monez, 435
Arden Place, Oakland.
 Architect—Not Given. \$300

DWELLING
 (213) 8 YGNACIO AVE. 50 W Vicks
burg; one-story 3-room dwellin
and 1-story garage.
 Owner—W. S. West.
 Architect—Not Given.
 Contractor—C. W. Leekins, 1650 Hop-
kins St. \$300

ALTERATIONS
 14) 772 **LERIDA AVE., OAKLAND;**
 alterations.
 vner and Builder—E. R. Sweet, 804
 Lerida Ave., Oakland.
 architect—Not Given. \$1500

WELLING
 15) 858 **PARAMOUNT RD., OAK-**
LAND; two-story 8-room dwelling
 and garage.
 vner and Builder—P. E. Woodburn,
 624 Prospect Ave., Oakland.
 architect—Not Given. \$9000

WELLING
 16) 8233 **NEY AVE., OAKLAND;**
 one-story 5-room dwelling.
 vner—E. Busch, 3726 Derby St.,
 Berkeley.
 architect—Not Given.
 contractor—W. C. Constable, 2 5 2 6
 Myrtle St., Oakland. \$4000

ALTERATIONS & ADDITIONS
 17) 353 61st **STREET, OAKLAND;**
 alterations and addition.
 vner and Builder—Theda W. Hyde,
 760 53rd St., Oakland.
 architect—Not Given. \$1800

WELLING
 18) **S PROCTOR AVE., 250 E Mo-**
doc, OAKLAND; one-story 5-room
 dwelling.
 vner—W. C. Mitchell, 54 Lake Ave.,
 Oakland.
 architect—Not Given.
 contractor—Leo J. Dolan, 316 17th St.,
 Oakland. \$4900

GNS
 19) 1450 **HARRISON Street, OAK-**
LAND; roof sign and electric sign.
 vner—Oak Knoll Land Co., 1450 Har-
 rison St., Oakland.
 architect—Not Given.
 contractor—Wonderlite Co., 170 Otis
 St., San Francisco. \$2400

ADDITION
 20) 98th **Ave. and Sunnyside St.,**
OAKLAND; addition.
 vner—U. S. L. Battery Corp. of Cal-
 ifornia, 98th Ave. and Sunnyside
 St., Oakland.
 architect—Not Given. \$5000

CHURCH
 21) 5401 **LE CONTE AVE., BERK-**
ELEY; two-story 10-room class C
 church.
 vner—University Christian Church,
 (Rev. E. M. Groegs).
 architect—W. H. Ratcliff, Jr., 411
 American Trust Co. Bldg., Berk-
 eley.
 contractor—Walter Sorenson, 2 9 4 0
 Piedmont Ave., Berkeley.
 \$55,475

BUILDING CONTRACTS

ALAMEDA COUNTY		
Owner	Contractor	Amt.
Gilbert	Edwards	1850
Melville	Warn	5785
Krogh	Jensen	19345
Southern	Dias	3330

EATING SYSTEM
 8) 604 34th **STREET, Oakland;**
 steam heating system.
 vner—E. C. Gilbert, 694 34th St.,
 Oakland.
 architect—Not Given.
 contractor—Frank J. Edwards, 2401
 8th Ave., Oakland.
 filed Feb. 19, '31. Dated Oct. 27, '30.
 When roughed in.....\$650
 When completed..... 600
 Usual 35 days after..... 600
TOTAL COST, \$1850

RESIDENCE
 9) LOT 21 Subdivision of Oakmore
 Highlands, Oakland; general con-
 struction on five-room frame and
 stucco residence.
 vner—H. P. Melville, 440 Crescent,
 Oakland.

Architect—Warn Bros., San Leandro.
 Contractor—G. C. and F. B. Warn,
 doing business as Warn Bros., San
 Leandro.
 Filed Feb. 19, '31. Dated Feb. 16, '31.
 On completion, cash.....\$5000
 Note for..... 785
TOTAL COST, \$5785
 Limit, 90 days.

RESIDENCE
 (30) **SW ESTATES DRIVE AND**
Waynelete Dr, Piedmont; general
 construction on two-story and
 basement frame and stucco resi-
 dence and garage.
 Owner—Miss Mary L. Krogh, 8 9 5
 Cleveland, Oakland.
 Architect—Miller and Warnecke, Fi-
 nancial Center Bldg., Oakland.
 Contractor—Jensen & Pedersen, 3 4 4 3
 Adeline St., Oakland.
 Filed Feb. 19, '31. Dated Feb. '31.
 When frame is up.....\$4836.25
 When plastered inside and
 brown coat outside..... 4836.25
 When completed..... 4836.25
 Usual 35 days..... 4836.25
TOTAL COST, \$19,345
 Bond, \$19,345. Sureties, Globe Indemnity
 Co. Limit, 120 days. Plans and
 Spec. filed.

PACKING SHED
 (31) **ESTUDILLO, Alameda County;**
 general construction on packing
 shed.
 Owner—Southern Pacific Company.
 Architect—Not Given.
 Contractor—E. E. Dias, Niles.
 Filed Feb. 20, '31. Dated Feb. 14, '31.
 Close of each month.....75%
 Usual 35 days..... 25%
TOTAL COST, \$3320
 Bond, \$3320. Sureties, U. S. Guarante-
 e Co. Limit, 16 days. Plans and
 Spec. filed.
 32 Catholic Makin 11900

LATHING & PLASTERING
 (32) **NE EXCELSIOR AVENUE** and
 Emerson St., Oakland; lathing and
 plastering concrete ch.urch and
 basement.
 Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.,
 San Francisco.
 Architect—Wm. E. Schirmer, 700 21st
 St., Oakland.
 Contractor—Wm. Makin, 1048 Excel-
 sior Ave., Oakland.
 Filed Feb. 24, '31. Dated Jan. 29, '31.
 1st coat of plaster.....\$2975
 Exterior and interior brown
 coated..... 2975
 When accepted..... 2975
 Usual 35 days..... 2975
TOTAL COST, \$11,900
 Bond, \$11,900. Sureties, Aetna Casu-
 alty & Surety Co. Limit, 120 days.
 Plans and Spec. filed.

COMPLETION NOTICES

ALAMEDA COUNTY	
Recorded	Accepted
Feb 20, 1930—971	EUCLID AVE.
Berkeley, Fred L. and Florence S	
Poster to Beckett & Wight.....	February 12, 1931
Feb 20, 1931—LOTS 7, 8 and 9 BLK	740-A, map of Rediv of Elk 740
and ptns 739-747 and 728, Oakland.	

The Lurie Co to Cahill Bros.....
 Feb 20, 1931—W VERSAILLES AVE
 85 ft S of Calhoun St, Alameda.
 Noble F Justice to whom it may
 concern.....February 14, 1931
 Feb 20, 1931—1533 ST CHARLES ST
 Alameda. J M Kinley to whom it
 may concern.....February 20, 1931
 Feb 20, 1931—LOT 22 and ptn Lot
 21 Blk 2002, Hogan Tract, Oak-
 land. Frank R and Mary E Bar-
 bageleta to E W Larmer.....
 Feb 20, 1931—2856 LINCOLN AVE,
 Alameda. Ethel L Church to Geo
 Windsor.....February 20, 1931
 Feb 18, 1931—PTN LOT 23 and all
 lot 30 blk 19, map No 6 of Reprints
 Park, Albany. Floyd P White-
 side to whom it may concern.....
 February 6, 1931

LIENS FILED

ALAMEDA COUNTY	
Recorded	Amount
East 33rd St, Oakland, A H Rose	vs Almira P Sipman, E M Han-
sen	\$268.92
Feb 21, 1931—LOT 17 BLK 6, Lake-	mont, Oakland, Milton Harris and
Henry Buck vs V E and Lorien Z	Britt.....\$428
Feb 20, 1931—SE TENTH AVE 120	ft NE of East 22nd St, Oakland.
John Dow, \$70.25; Lewis Reynolds	\$37.80; Earl Seargent, \$295; Peter
O Erick, \$455.02, vs Umberto Caval-	lo.....
Feb 20, 1931—NW ST MARYS ST	and Main St, Pleasanton, W P
Fuller & Co vs J J Amaral, A F	Hanson.....\$50
Feb 18, 1931—SE TENTH AVE 120	ft NE of E 22nd St, Oakland, Pa-
cific Paint & Wallpaper Co, \$172.-	53; Charles Icardi doing business
as Industrial Iron Works, \$635; C	R Montgomery, \$240, vs Umberto
and Margaret Cavallo.....	Feb 15, 1931—S2 LINE TENTH AVE
120 NE of E 22nd St, Oakland.	Superior Tile and Products Co vs
Umberto Cavallo.....\$628	

RELEASE OF LIENS

Alameda County	
Recorded	Amount
Feb 20, 1931—SE 13th and Washing-	ton Sts, Oakland, Carl T Doell
Co to Julius and Hugo Abraham-	son, Earl S Harless, F J Gulluss.....
	\$160
Feb 20, 1931—W JACKSON ST 160	ft N of 14th St, Oakland, L G
Bastow and Harvey Ltd, C Smith, \$499,	Thomas J Keenan, Jr, \$937.50 to
Henry G Hill.....	Feb 17, 1931—LOT 8, Subdivisions 6
and 7, Hardy T'ct, Berkeley. Tilden	Lumber Co to Berkeley, In-
door Golf Course, Ltd, C Rad-	ston, S M Straus, C H, Geo H, and
H K Fox, Fox Bros.....\$266.92	Feb 17, 1931—286 LENOX Avenue,
Oakland, C E Douglas and R G	Wolf to Albert and Emily Kroll.....
	\$379.35

Member Insurance Brokers' Exchange

FRED H. BOGGS

INSURANCE

490 GEARY STREET

Phone FRanklin 9400 San Francisco

BUILDING CONTRACTS

SAN MATEO COUNTY

BUNGALOW

LOT 18 BLK 29, Redwood Highlands. All work for Spanish frame and stucco bungalow.

Owner—R. L. O'Connor, 131 McDonald Ave., San Francisco.

Architect—Not Given.

Contractor—G. W. Lawson, 243 Webster St., Palo Alto.

Filed Feb. 20, '31. Dated Feb. 19, '31.

Frame up 1/4

Brown coated 1/4

Completed 1/4

Usual 35 days Balance

TOTAL COST, \$3370

Bond, none. Limit, 90 working days.

Forfeit, plans and specifications, none.

RESIDENCE

LOT 11, Hillsborough Heights No. 2.

All work for frame residence.

Owner—Mrs. Lee J. Sneath, 303 El Portal, San Mateo.

Architect—Albert Farr et al, 68 Post St., San Francisco.

Contractor—Buschke & Johnson, 235 Third Ave., San Mateo.

Filed Feb. 18, '31. Dated Feb. 7, '31.

As work progresses 75%

Usual 35 days 25%

TOTAL COST, \$15,325.50

Bond, \$15,325.50. Surety, United States Guarantee Co. Limit, 90 working days.

Forfeit, \$10. Plans and specifications, none.

RESIDENCE

LOTS 2 AND 3 BLK 83, San Mateo.

All work for one-story frame and stucco residence and basement garage.

Owner—A. Guslani, South San Francisco.

Architect—E. Icardi, 2574 Collingwood St., San Francisco.

Contractor—Antonio Peanca, South San Francisco.

Filed Feb. 20, '31. Dated Feb. 7, '31.

As work progresses 75%

Usual 35 days 25%

TOTAL COST, \$4118

Bond, \$2059. Sureties, Silvio Piani and Louis Varni. Limit, 90 working days.

Forfeit, none. Plans and specifications filed.

ADDITION

ATHERTON; addition and alterations.

Owner—Edward H. Heller, 26 Presidio Terrace, San Francisco.

Architect—Henry H. Gutterson, 5 2/2 Powell St., San Francisco.

Contractor—Clinton Stephenson Construction Co., 144, Monadnock Bldg., San Francisco.

Filed Feb. 7, '31. Dated Jan. 31, '31.

Progress payments of 75%

Usual 35 days 25%

TOTAL COST, \$11,295

Bond, \$11,295. Sureties, Commercial Casualty Ins Co. Limit, 60 working days.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted

Feb. 19, 1931—LOT 16 BLK 47, Howard Addition, San Mateo. Frank Bergomo to whom it may concern.

Feb. 18, 1931

Feb. 20, 1931—OAK KNOLL MANOR. Frank J. Walrath et al to whom it may concern.

Feb. 14, 1931

Feb. 20, 1931—PART LOT 6 BLK 14, Blossom Heath Manor. Castle Building Co to Henry Horn.

Feb. 18, 1931

Feb. 21, 1931—LOT 20 BLK 57, Santa Ynez Park, San Mateo. Chas

H Czapka to whom it may concern.

Feb. 19, 1931

Feb. 21, 1931—PART LOTS 3 AND 4, Blk D, Vera Ave Villas. Mary Pariani et al to whom it may concern.

Feb. 20, 1931

Feb. 21, 1931—LOT 4 BLK D, Vera Ave Villas. Peter Pariani et al vs Joseph Meconi et al.

Feb. 20, 1931

Feb. 21, 1931—LOT 8 BLK 21, East San Mateo. F Ferrea et al to whom it may concern.

Feb. 21, 1931

Feb. 21, 1931—LOT 1 BLK 7, Lomita Park. Giovanni Guido to whom it may concern.

Feb. 19, 1931

Feb. 21, 1931—LOT 12 BLK 8, Lomita Park. Anna Ebbecke to G Magnuson.

Feb. 19, 1931

Feb. 19, 1931—LOT 16 BLK 47, Howard Addition No. 1, San Mateo. Frank Bergamo to whom it may concern.

Feb. 18, 1931

Feb. 10, 1931—NO. 327 HUDSON ST. Lots 2 and 23 Blk 4, Central Park David Holder to whom it may concern.

Feb. 19, 1931

Feb. 15, 1931—PART LOTS 6 AND 8 Blk C, Hillsborough Park. T J Hallinan to Oswald & Rucker, Inc.

Feb. 16, 1931

Feb. 16, 1931—LOTS 5 AND 6 BLK 7, San Bruno. Harry Chase et al to O H Taylor.

Feb. 6, 1931

Feb. 16, 1931—LOT 48 BLK 2, Huntington Park. Glen Farr to M A Whitlock.

Feb. 16, 1931

Feb. 16, 1931—LOT 47 BLK 2, Huntington Park. Glen Farr to M A Whitlock.

Feb. 16, 1931

Feb. 17, 1931—LOT 7 BLK B, Fays Redwood Garden. Louis Foss to S E Goss.

Feb. 16, 1931

Feb. 17, 1931—LOT 3 BLK 14, Newbridge Park. Jannett May to J J Cook et al.

Feb. 16, 1931

Feb. 17, 1931—NO. 221 PARK ROAD. Earlingame Frank C Wyckoff to Henry Voelken.

Feb. 16, 1931

Feb. 18, 1931—LOTS 8 AND 9 BLK 1, Huntington Park. Josephine M Smith to Shubael C E Smith.

Feb. 16, 1931

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded Accepted

Feb. 19, 1931—LOCATION NOT Given. San Carlos Feed & Fuel Co to whom it may concern.

Feb. 20, 1931—LOT 32 BLK 10, Crocker Estate Tract. A Milano to Gus Bloomquist. Partial release.

Feb. 21, 1931—LOCATION NOT Given. F M McNulty Alias et al vs Peterson et al.

Feb. 19, 1931

Feb. 19, 1931—LOCATION NOT Given. San Carlos Feed & Fuel Co to whom it may concern.

Feb. 17, 1931

Feb. 17, 1931—LOCATION NOT Given. Victor L Dappe to Doly Bros Inc et al.

LIENS FILED

SAN MATEO COUNTY

Recorded Amount

Feb. 20, 1931—LOTS 48 AND 49 BLK 12, Belle Air Park. Henry Cowell Lime & Cement Co vs Louis Sanders.

Feb. 20, 1931

Feb. 20, 1931—PART LOT 39 BLK 17, South San Francisco. A J Tole vs Rosie Price et al.

Feb. 21, 1931

Feb. 21, 1931—LOT 10 BLK 9, San Mateo City Homestead. Inland Floor Co vs Louis Beltramo et al.

Feb. 21, 1931

Feb. 21, 1931—LOTS 48 AND 49 BLK 12, Belle Air Park. E E Block vs Louis Saunders.

Feb. 21, 1931

Feb. 21, 1931—LOT 34 BLK 60, Bel-

montl. Olaf Bergman vs W McKillop.

Feb. 17, 1931

Feb. 17, 1931—LOTS 11 AND 12 BLK 1, Oakwood Tract. Frank J Graner et al vs M A Ryan, \$85 v R E Stewart.

Feb. 17, 1931

Feb. 17, 1931—LOT 3 BLK 16, Lomita Park. W C Greene vs L J Milne et al.

Feb. 18, 1931

Feb. 18, 1931—NO. 118 BAYWOOD Ave. 3.24 Acres, Hillsborough. San Mateo Planning Mill Co vs Jame Keegan et al.

Feb. 18, 1931

Feb. 18, 1931—LOTS 11 AND 12 BLK 1, Oakwood Park. Manuel Sol Jr vs R E Stewart.

BUILDING PERMITS

REDWOOD CITY

DWELLING, frame, 6 rooms, b and garage, \$3000; No. 1233 Lington Ave., Redwood City; owner, H. W. Hougham.

SERVICE station, masonry, \$46 No. 1009 El Camino Real, Redwood City; owner, Mrs. C. Bentley; contractor, John Bracht.

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$3000; No. 11 Greenwood Ave., Palo Alto; owner, C. H. Spinks; contractor, F. Mallet, 732 Palo Alto St., Palo Alto.

BUILDING, \$5000; No. 2361 Tasso St., Palo Alto; owner, L. H. Wo. 305 Alma St., Palo Alto; contractor, E. F. Burkhardt, 5938 Cha Road, Oakland.

BUILDING PERMITS

SAN JOSE

RESIDENCE, 4-room frame, \$17; Hillinois St. near Anzerias St., San Jose; owner, John Bruno, 790 Dmas Ave., San Jose.

ALTER Class C business building, \$1000; No. 126 S-First St., San Jose; owner, Thomas Drug C. Prem.; contractor, H. A. Bridge, 1298 Lincoln St., San Jose.

RESIDENCE, 2-story 8-room, frar, \$11,000; Cor Lossee and Ayer, San Jose; owner, Clyde Alexander, 1 3, Box 529 San Jose.

RESIDENCE, 4-room, frame, \$10; San Fernando near 20th St., San Jose; owner, Conrad Carlson, 1 E. San Fernando St., San Jose.

RESIDENCE, 5-room frame, \$50. Riverside near Coe St., San Jo. owner and contractor, Ormal Doe, 1107 Glenn Ave., San Jose.

RESIDENCE, 5-room frame, \$2500; John and 30th Sts., San Jose; owner and contractor, Homer Sarson, 104 S-23rd St., San Jose.

ALTER Class C business building, \$220; No. 130 S-Third St., San Jose; owner, L. Lion & Sons C Second and San Fernando St San Jose; architect, Herm Krause, 243 N-Ninth St., San Jo contractor, H. Bolwin, 1041 Grand St., San Jose.

RESIDENCE, 5-room frame, \$30 31st St. near St. James St., S Jose; owner and contractor, J. Henry, 195 N-21st St., San Jose.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accept

Feb. 10, 1931—NW PTN LOT 10 Subd Emerson Tract, San Jose

Robert E McGlynn to whom it may concern..... Feb. 5, 1931

Feb. 11, 1931—LOT 5 BLK 63, Resubd of Seale Addition No. 2, Palo Alto. Wilson J Causey to whom it may concern..... Feb. 7, 1931

Feb. 13, 1931—W SANTA CLARA St. next to Farmers' Union Bldg., San Jose, electrical work; elevator alterations). Marie LeFranc et al to whom it may concern. Feb. 9, 1931

Feb. 13, 1931—LOT 4 BLK 6, Hawxhurst Addition, Palo Alto. Thos A Garcia to whom it may concern..... Feb. 9, 1931

Feb. 16, 1931 — N SANTA CLARA St. and W Notre Dame Ave on Notre Dame Ave NW 151.64 SW parl Santa Clara St. 112.155 ft. v a SE parl Notre Dame 15.64 to Santa Clara St. on St. rect. NE 112.155 ft. to bezg. San Jose. San Jose Community Hotel Co to Otis Elevator Co., Feb. 16, 1931; Weber Show Case & Fixture Co., Feb. 6, 1931; Art Pixture Shop, Feb. 16, 1931; Wigren Glass Co.; Wm F Serpa; Chris Berg; Raymond Concrete Pile Co; San Jose Hardware Co; Guilbert Bros Elec Shop; Hatelye & Hatelye; R Helwig Iron Works; Carl N Swenson; W H Weeks; Brown & Co and J B Hubzer; Joseph Musto Sons-Keenan Co; Rigney Tile Co; L Lion & Sons Co; Porderer Cornice Works; W J Porter; Cyclops Iron Works..... Feb. 16, 1931

Owner—J. C. Williamson, 13th and D Streets, Antioch.
 Architect—Not Given.
 Contractor—W. J. Thut.
 Filed Feb. 13, '31. Dated Dec. 23, '30.
 Joists in place.....\$1169.40
 Framed and sheathing on outside..... 1169.40
 Lathed and plastered..... 1169.40
 House completed..... 1169.40
 Usual 35 days..... 1169.40
 TOTAL COST, \$5847.00
 Bond, \$2920. Sureties, Hartford Accident & Indemnity Co. Limit, forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 Feb. 11, 1931—LOT 15 BLK K, Am. No. 2, Berkeley Park. Debbe R Anderson to whom it may concern.....Feb. 6, 1931

Feb. 14, 1931—LOT 7 BLK 4, Johnson Addition to Concord. Hugh A Laughlin to whom it may concern..... Feb. 14, 1931

Feb. 14, 1931—LOT 6 and E 1/2 Lot 5 Blk 19, Richmond Traffic Center. John and Mary Perrelli to Norman E Anderson.....Jan. 30, 1931

Feb. 19, 1931—LOTS 129 AND 132 Unit No. 1, Hacienda Del Orinda. Charles P and Georgie S Hubbard to James E Sullivan.....Feb. 12, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 Feb. 16, 1931—LOT 15 Map of North Richmond. Marcus & Merrick, Ltd vs George J Gordon, Rome Locke and Ella M Locke.....\$33.85

Feb. 16, 1931—LOT 15, North Richmond. L G Slusser, \$312.18; Richmond Lumber Co, \$453.37; R A Washburn, \$324.76 vs Rome and Ella M Locke.....

Feb. 16, 1931—LOT 15, North Richmond. Superior Tile & Products Co vs Rome and Ella Locke and George J Gordon.....\$41.87

Feb. 17, 1931—LOTS 17 AND 18 BLK 2, Nicholl & Macdonald Ave Civic Center. Strable Hardwood Co vs Mary Ray Zwislser; C L Roark and A Walburg.....\$36.25

RELEASE OF LIENS

CONTRA COSTA COUNTY

Recorded Amount
 Feb. 17, 1931—LOTS 32 AND 33 BLK 33, Amended City of Richmond. Berkeley Bldg Materials Co to E B Rendall and Mrs. C M Hansen.....

BUILDING PERMITS

STOCKTON

RESIDENCE and garage, \$3800; No. 1035 Vernal Way, Stockton; owner, F. P. Dobson, 1159 W-Harding Way, Stockton.

REMODEL ground floor of office building, \$9500; No. 248 E-Main St. Stockton; owner, Capitol Co, 248 E-Main St., Stockton; contractor, Lewis & Green, Bank of Italy Bldg., Stockton.

DWELLING, 2-story rustic and garage, \$5480; No. 724 Bristol Ave., Stockton; owner, H. F. Ahearn, Bank of Italy Bldg., Stockton; contractor, T. E. Williamson, 1859 W-Park Ave., Stockton.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
 Feb. 19, 1931—LOT 3 BLK 68 Block Book of City of Monterey. Anthony E and Jennie Lucido to E R Raymond..... Feb. 17, 1931

Feb. 19, 1931—LOTS 21 AND 22 BLK 1 Plat of Boulevard Tract being Subdivision of Block 14 Map 1 of Hot Springs Tract, Monterey. Bernard A and Mildred M Hicks to J V Cain..... Feb. 18, 1931

Feb. 19, 1931—LOT 7 BLK 3, Maple Park Addition No. 2, Monterey. Gerald H and Marie Pauline Wilmoth to Bruce E Baird. Feb. 14, 1931

Feb. 20, 1931—LOT 29 BLK 151, Carmel Woods Addition to City of Carmel - by - the - Sea. Margaret Dureya Neubauer and F J Neubauer to M J Murphy Inc.....Feb. 16, 1931

LIENS FILED

MONTEREY COUNTY

Recorded Amount
 Feb. 17, 1931—PTN MONTEREY City Lands Tract No. 1 and ptn of Rancho Aguajito, Monterey. Grant Towle and Mattie L Wright vs S H Hooke; W E Hooke; Gouverneur and Ruth J Wightman Morris, fmyly Ruth J Wightman..... \$4275.13

Feb. 17, 1931—PTN MONTEREY City Lands, Tract No. 1, Monterey J. W. Shaney, \$786; A Marotta, \$104.97; W H McConnell, \$1107.55; Sidney Ruthven, \$185.03; Union Supply Co, \$5549.75 vs S H and W E Hooke; Gouverneur and Ruth J Wightman.....

Feb. 17, 1931—PTN MONTEREY City Lands, Tract No. 1, Monterey. S H and W E Hooke vs Gouverneur and Ruth J Wightman Morris, fmyly Ruth J Wightman.....\$15,941.93

Feb. 20, 1931—LOT 17 BLK 1 Map No. 2, Del Monte Heights. L Emery, \$80; J W Shaney, \$50; Tyan Lumber Co, \$798.50 vs Donald Wallace.....

Feb. 20, 1931—LOT 17 BLK 1 Map No. 2, Del Monte Heights. Tyan Lumber Co vs E Battersby & Carl Trippel.....\$140.34

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
 Feb. 14, 1931—CASCADES, Fairfax. D Harold Sullivan to whom it may concern..... Feb. 13, 1931

Feb. 16, 1931—HAWTHORN HILLS San Anselmo. H O Hathaway to whom it may concern.....Feb. 16, 1931

Feb. 16, 1931—HAWTHORN HILLS, San Anselmo. E Lakeman and Wife to whom it may concern.....

Feb. 17, 1931—SAN RAFAEL. Chas H Carpenter to E M Sorensen..... Feb. 17, 1931

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 Feb. 18, 1931—LOT 11 BLK 6, Greene Subdivision of Portions of Lots 16, 17 and 18, Wills Addition to Antioch. Nathan C Dudley to whom it may concern.....Feb. 16, 1931

Feb. 18, 1931—PTN LOTS 16, 17, 28 and 29, Map of Resubd. of Lots, Arlington Acres. Olive, Ruth and

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
 Feb. 11, 1931—LOT 2 BLK 141, Embarcadero Oaks, Palo Alto. H Bleiber, \$44.85; C Mezzapelle, \$67.27 vs Edna K and Elmer M Lenzen.....

Feb. 13, 1931—S FLORENCE AVE 459.21 SW White Road, San Jose. Mark Cox vs Jay C Gould et al \$100

Feb. 13, 1931—LOTS 4, 5 AND 6 Boulevard Tract, San Jose. McElroy-Cheim Lumber Co vs Clarence P Fonseca et al.....\$986.10

Feb. 13, 1931—LOT 2 BLK 141, Embarcadero Oaks Subd., Palo Alto. D & S Lumber Co, Inc., \$491.62; Merner Lumber Co, \$207, \$296.10 and \$247.35 (3 liens) vs Edna K and Elmer M Lenzen.....

Feb. 14, 1931—LOT 2 BLK 141, Embarcadero Oaks, Palo Alto. Atlas Elec & Eng Corp, \$139; A J Casella, \$175; C A Bloomquist, \$247; C E Ashworth, \$211; A C Whitson, \$507.35 vs Edna K and Elmer M Lenzen.....

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
 Feb. 11, 1931—LOTS 4 AND 5 BLK 4, Lendum Tract, San Jose. Gladding Bros Mfg Co to J V Rose et al.....

Feb. 13, 1931—NO. 169 Park Ave., San Jose. Henry Cowell Lime & Cement Co to Mamie Mello et al

Feb. 13, 1931—NO. 485 N-FIRST ST. San Jose. Henry Cowell Lime & Cement Co to Louis Sonnicksen.....

BUILDING CONTRACTS

CONTRA COSTA COUNTY

RESIDENCE
 TOWN OF ANTIOCH. All work for five-room frame residence.

Mary Hazel Stewart to Conner & Conner..... Feb. 9, 1931
 Feb. 18, 1931—LOTS 17 AND 18 BLK 20, Richmond Center. Anna Maud and Claude Wallace DeLaney to whom it may concern... Feb. 11, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 Feb. 18, 1931—LOTS 31 and 1/2 of Lot 32 Blk 35, North Berkeley Terrace. A M Hite, \$199; General Mill & Lumber Co, \$217.74 vs Henry Fred Block.....
 Feb. 18, 1931—LOT 31 and 1/2 Lot 32 Blk 35, North Berkeley Terrace. Berkeley Building Material Co, Inc. vs Henry Fred Block and A M Hite.....\$87.93
 Feb. 18, 1931—LOT 1 BLK 17, O'Hara Addition to Oakley. Sterling Lumber Co vs S Lambdin and C C Blair.....\$172.35
 Feb. 18, 1931—LOT 7 BLK 4, Richmond Traffic Center. A Fonseca and M Perry vs V Nelson.....\$450

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
 Feb. 26, 1931—LOT 3 BLK 11, Subd. No. 2, Tuxedo Park. S C Giles to whom it may concern... Feb. 18, 1931

LIENS FILED

SAN JOAQUIN COUNTY

Recorded Amount
 Feb. 26, 1931—E 16 ACRES LOT 7 Map No. 1, California Nile Garden Farms. Hayward Lumber & Investment Co vs J A Brown.....\$87.96

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 Feb. 24, 1931—NO. 425-427 MENDOCINO AVE., Santa Rosa. Press Democrat Publishing Co to whom it may concern... Feb. 24, 1931
 Feb. 18, 1931—PALM ST., Sebastopol. Mrs. Pauline D Paulson to Robert J Whiting..... Feb. 16, 1931

LIENS FILED

SONOMA COUNTY

Recorded Amount
 Feb. 19, 1931—ON PETALUMA AND Sebastopol Highway part of Allotments 30 and 31, Rancho Roblar de La Miseria. Camm & Hedges Co vs Anna E Keegan; Manso Na Kagami and K Uyeda.....\$799.29 and interest
 Feb. 19, 1931—PART BLK B, Hottinger Addition to Santa Rosa. E U White Lumber Co vs Est John Wilson, decd' and M D Eberwein..... \$621.29 and interest

BUILDING PERMITS

SACRAMENTO

REMODEL banquet room, \$4800; No. 1000 K St., Sacramento; owner, Hart Realty Co; contractor, Campbell Constr. Co., 800 R St., Sacramento.
 RESIDENCE and garage, \$6000; No. 1933 Bedwell Way, Sacramento; owner and contractor, Jos. Edenhofler, 3059 17th St., Sacramento.
 DWELLING and garage, \$4200; No.

2608 E St., Sacramento; owner, F. E. Bauer, Brighton; contractor, H. W. Robertson, 2532 33rd St., Sacramento.

RESIDENCE and garage, \$4000; No. 2924 W St., Sacramento; owner and contractor, S. E. Fuller.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
 Feb. 26, 1931—100 FT. LOT 17, Elmhurst except W 4 ft., Sacramento. H M and Gertrude W Dunkel to whom it may concern... Feb. 19, 1931

BUILDING CONTRACTS

FRESNO COUNTY

STEAM PLANT
 NEAR HERNDON. All work for 31,000 cubic yards of excavation for steam plant site.
 Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.
 Plans by Owner.
 Contractor—A and J. Volpe.
 Filed Feb. 19, '31. Dated Jan. 31, '31.
 Upon completion.....\$6510
 TOTAL COST, \$6510
 Bond, \$3255. Surety, Fidelity Casualty Co. of New York, Limit, March 22, 1931. Forfeit, \$20 a day. Plans and specifications, none.

BUILDING PERMITS

FRESNO

ALTERATIONS and additions, \$3100; No. 1045 Fulton St., Fresno; owner, Clark's Dollar Store, 1045 Fulton St., Fresno; contractor, W. T. Harris, 577 McKinley St., Fresno.
 DWELLING and garage, \$3500; No. 1446 Ferger Ave., Fresno; owner, and contractor, W. H. Richmond, 1379 Adoline St., Fresno.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 Feb. 15, 1931—LOTS 35 AND 36 Blk 4, College Addition, Fresno. John G Porter et ux to whom it may concern..... Feb. 20, 1931

LIENS FILED

FRESNO COUNTY

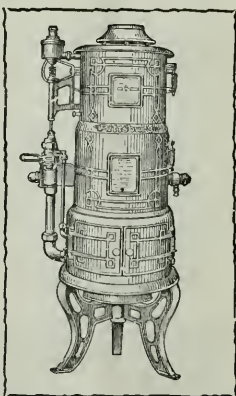
Recorded Amount
 Feb. 15, 1931—PART LOT 9, Salinger Tract, Fresno. Kyle & Co vs E Gionette.....\$318

Speaking before the annual meeting of the West Coast Lumbermen's Association at Tacoma, Wash., W. F. Shaw, Trade Extension Manager of the National Lumber Manufacturers Association, remarked that despite the long period of stress and strife resulting in a 45 per cent drop in residential construction during the past 26 months and a 23 per cent decline in all building construction, lumber had more than held its own.

Mr. Shaw expressed the belief that the building situation will improve during the last half of 1931 and that buying will eventually come back with a rush. When the much desired revival comes the lumber industry, Mr. Shaw said, would be forced to have the following assets:

- (1) A more equal sharing of the burden of reduced production.
- (2) More attention given to proper uses.
- (3) Increased attention to merchandising and identified products.
- (4) More intense general interest in promotion activities.

F. C. and H. L. Gerken will operate from 409 Eddy Street under the firm name of Eddy Radio Electric Company.



A "Pittsburg" Automatic Water Heater installed in the Home indicates high quality throughout.

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Thirty-first Year, No. 10



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Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

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Building and Engineering News will be sent to subscribers until ordered stopped and all orders to discontinue must be sent in writing to this office.

HOME BUILDING LAGS IN SEATTLE

During the last decade the sum of \$196,580 has been expended for 2,890 new homes built in Seattle. To that amount should properly be added \$7,860 for the 193 new residences it under construction there since the first of the present year. But the fact remains that Seattle is lagging in home construction now. Last year only 1176 new homes were built in the northwest city. That is the smallest number in the ten-year period referred to above. The values are a trifle higher, however, than in 1920 (the next lowest year). In 1925 there were 3615 homes, costing \$11,450 constructed in Seattle. The next best year in home building was 1926 when 3341 residences costing \$165,020 were built. The ups-and-downs of apartment house construction has had little apparent effect on the building figures indicate the fact that the city's boom in home construction occurred in 1924, 1925, 1926 and 1927 and have steadily declined since despite greater population would indicate that home building will have to increase in time or a scarcity of modern residences will be noted.

	Value	Number
1920	\$ 3,898,655	1,176
1921	5,971,710	1,703
1922	8,082,900	2,332
1923	9,464,525	2,750
1924	11,165,000	3,541
1925	11,750,960	3,618
1926	9,140,555	2,865
1927	6,322,405	2,086
1928	5,599,730	1,903
1929	4,319,930	1,775
1930	3,450,160	1,431
Totals for 10 yrs.	\$79,196,580	24,980

FEBRUARY BUILDING PERMITS \$1,712,571

Building operations undertaken in San Francisco during the month of February involved an expenditure of \$2,571 as compared with \$1,144,060 for the corresponding period in 1930. The figures are based on building permits issued by the Department of Public Works.

Many operations involved an expenditure of \$1,831,083 as compared with \$1,431,893 last year.

Following is a segregated report of February, 1931, activities as compiled by the Bureau of Building Inspection, Dept. of Public Works:

	No. of Estimated Permits	Cost
General	1	\$115,640
Commercial	2	26,790
Industrial	12	292,475
Residential	170	845,362
Public Buildings	315	131,794
Religious	1	250,000
Total	501	\$1,712,571

LOCAL LABOR AT LOCAL PAY ON ALL FEDERAL PROJECTS

Representative Welch of California, who became chairman of the labor committee late in the present session of congress scored his first victory last Saturday when the House finally agreed to the bill requiring contractors on public buildings to observe the local wage scale when employing men to erect federal buildings.

A considerable percentage of the public building contracts is said to have been awarded to itinerant contractors who have moved about the country, hired a lot of cheap labor in the south, and have been able to move that labor to any city in which they get a contract, and to disregard the local scale of wages.

Some of these contractors, employing almost exclusively Negro labor from the south, have developed a system of establishing labor camps in towns where they get contracts by reason of low bids; of shipping in their Negro laborers by the railroad, establishing cheap camps where the laborers may obtain cheap lodging and cheap meals furnished by the contractor, and have then refused to recognize the local wage scale or to employ local labor.

In this way they have been able to underbid local contractors, and to break down existing wage scales, and to distort the public building from a scheme to aid unemployment into a scheme to enrich themselves through the exploitation of cheap labor that is willing to pay back to the contractor a large part of its wages for lodging and meals.

In putting through the house a bill which requires contractors on public works to recognize local wage scales, and so far as possible to employ local labor, Representative Welch believes he has gone far towards making the public building program what it has been advertised to be, a plan to aid unemployment.

Incidentally, this is the first bill which Welch has had to present to the house since he became chairman of the labor committee.

GENERAL PAINT ELECTS OFFICERS

E. A. Bradley, former president of the General Paint Corporation, was elected to the office of chairman of the board of directors at the recent meeting of that body. C. H. Jones, formerly vice-president in charge of the Spokane division, was elected to the office of president.

Prior to the inclusion of Jones & Dillingham of Spokane in the General Paint merger two and one-half years ago, Jones was president of that company and has had wide experience in the paint business, having organized the Jones & Dillingham firm more than forty years ago.

3-CITY LICENSE IS CONTEMPLATED

Monterey peninsula contractors are seeking some means of protection from competition from outside builders and plan to submit to the Monterey city council an ordinance licensing contractors and sub-contractors.

At a recent session of the council an ordinance was suggested by D. L. Dawson, secretary of the Monterey County Builders' Exchange. While City Attorney Argyll Campbell was of the opinion such procedure would be unconstitutional, it was indicated that some method could likely be adopted. The proposed ordinance will get further attention at the next meeting of the builders' exchange.

It has been suggested that general contractors pay a license of \$500 and \$50 a year thereafter and that sub-contractors pay an initial license of \$100 and \$25 annually. Others favor a lower license fee.

Contractors point out that many other cities provide protection for local contractors, notably Salinas and Santa Cruz.

Builders are hopeful of making arrangements with councils of Monterey, Pacific Grove and Carmel whereby a contractor paying a license in any one city would be exempt from paying a license in any of the other two communities.

Under this arrangement, a contractor or sub-contractor paying a license in Monterey would be able to operate in Pacific Grove and Carmel without an additional payment.

MERCHANT PLUMBERS ORGANIZE CONFERENCE

Alec Coleman has been named president of the Northern California Federation of Merchant Plumbers, recently organized, to operate along lines which have met with success in the southern section of the state.

The Federation will hold monthly meetings which will feature open forum discussions in which manufacturers and wholesalers will be invited to take part.

Adoption of the construction and by-laws of the Northern California Federation as a basis for organization and administration of the Northern group was voted at the organization meeting.

Harry G. Newman of Oakland is vice-president of the Federation and J. B. Hawley of Sacramento, treasurer. Frank Mauzy of Walnut Creek is secretary.

Robert Duncan of Oakland, John Young of San Francisco, and Chas. Merritt of San Jose are members of the Board of Directors.

The Fillmore Lumber Company is the new name for Hull Bros. Lumber Co. of Fillmore, it is announced by H. R. Crozier, who is now actively interested in the business.

BASIC PRINCIPLES OF CONCRETE MAKING COORDINATED

By Joseph A. Kitts
(Consulting Concrete Technologist, San Francisco, Calif.)

3. NEW LAWS OF MIXTURES COORDINATED WITH THE KNOWN FUNDAMENTALS.

The modern demand for knowledge of exact basic principles of concrete making is that of the commercial concrete factory. This new manufacturing industry has increased (in the United States) from 25 major plants in 1925 to 235 or more at the end of 1930, and introduces a demand never before required in concrete production, i. e., exact methods and results.

The varieties of concrete mixtures demanded by these factories are innumerable. Any one of about ten maximum sizes of aggregate, any slump or flow, any possible strength, and any specified proportions or basis of proportions, are demanded by the buyer. Compressive strength is the usual criterion of quality, but density, impermeability; resistance to fire, chemicals, ice, sea water; and other conditions, are required.

The necessities of expediency and accuracy in fulfilling these demands require that aggregates and cement be measured by weight. Thus, specified proportions by loose-moist, loose-dry and dry-rodded bulk volume, and by absolute volume, must be calculated by weight. The weight proportions of any specified concrete must be calculated often in fifteen or even ten minutes; the first batch must be correct in all respects for the specified strength must be within 1% of the specified slump, and within one-half of one percent of the correct volume; and all of these conditions must be fulfilled to the satisfaction of the buyer when the mixer truck arrives on the job, possibly ten miles away. Trial, or cut and try methods are, therefore, out of the question.

Required Laws of Mixtures

In order to meet this present day requirement of a concrete technology, it has been necessary to establish complete laws (or empirical equations, etc.) of mixtures, for given conditions of aggregates, cement, and consistency of mix, meeting following specifications:

Specification (1) Law of the cement content for any strength, maximum size of aggregate, and slump of concrete;

Specification (2) Law of the corresponding water content;

Specification (3) Law of the corresponding aggregate content; also,

(a) Size modulus of aggregate grading; and

(b) Grading equation of aggregate sizes; and

Specification (4) Law of the corresponding yield of combinations of ingredients (including admixtures)

It should be appreciated that the accomplishment of these requirements has been the result of many men groping assiduously, for more than a generation, for these laws, not abstractly conceived by the many variables involved and by that ancient measure of ingredients, bulk volume (See Part 1). A resume of this development, with requirements for the years 1925-1931 in mind, will serve to present the recent discoveries and their coordination with the fundamentals of the various theories of proportioning and, at the same time, show the abstract character of the research.

Resume of Mixture Research

ARBITRARY MIXTURES 1:1.2, 1: 1½:3, 1:2.4, 1:3.6, etc., by bulk volume, have been studied since ancient times. The research data, compris-

ing millions of tests, have been more confusing than definite, due largely to the inherent indefiniteness of the bulk volume measure and because the water content of the mix has generally been disregarded. The general indications, however, have been that strength increases with the cement content, with the maximum size of the aggregate, and for change from sloppy to plastic mixtures. Equations of strength were determined by both Thacher and Henby from such arbitrary proportions.

THE THACHER FORMULA was discovered about 1900 and is

$$K_s = a - bS/C$$

in which K_s is the concrete strength at a given age, a and b are constants, and S and C are the volumes of sand and cement, respectively. Thacher did not observe that the constants a and b were changed by the maximum size of the aggregate and also by the consistency of the mix; and, as set values of a and b did not prove correct for all conditions, the equation was not advanced as a law of mixtures. It is, however, an important law of mixtures when its controlling conditions are understood.

Henby (see Proceedings of Association of Engineering Societies, September, 1900) obtained the same formula excepting that he used the aggregate to cement ratio.

These equations are incomplete as a basis of proportioning, but they held promise of the required cement content law, Specification (1).

VOID THEORIES of proportioning have been studied considerably since 1900 and, excepting that they show efficiency of void filling ratios, indicate no definite formula of strength. It is obvious, however, that the filler to voids ratios must be considered.

YIELD OF COMBINATION was stated by Feret, prior to 1905, to be the sum of the absolute volumes of aggregates, cement, water and air voids. Excepting that a portion of the cement goes into solution with the water, this theory is correct and provides a basis of our required law, Specification (4). This use of the absolute volume as the measure of ingredients is, no doubt, the most important principle of concrete mixtures.

Feret also advocated comprehensive preliminary concrete tests, for every new set of materials, and graphical analysis of the results. This, of course, is axiomatic in concrete technology.

THE FULLER METHOD OF GRADING (see Transactions Am. Soc. C. E., 1907) was an important development in the use of several sizes of aggregates and of a rational grading curve. It requires modifications, however, to fit into the essential processes of today. It does not provide a basis of cement and water contents for a given maximum size of aggregate, strength and slump. The process of determination of the proportions of the aggregate, by this method, is a cut and try graphical one and is tedious, slow and inaccurate. An expedient and accurate algebraic process is essential. Its use of weight as the basis of measure of ingredients has been shown (in Part 1) to be fundamentally incorrect because of variation of the absolute volumes with

the varying specific gravities of the ingredients.

The Fuller grading is sometimes called the MAXIMUM DENSITY CURVE. It is more properly called an approximation of the optimum density. Maximum density mixtures of given cement content and slump are not practicable because they are of coarse grading, lacking cohesion and, therefore, are difficult to handle at work because of separation. However, the principle of use of three or more size separations of aggregate and of proportioning the mix to the actual grading of the aggregate, instead of requiring the aggregate producer to supply a grading of aggregate to fit a predetermined arbitrary mix, is a rational procedure; this resists.

THE ABRAMS METHOD of control of concrete production, employing his water-cement-ratio-strength-fineness modulus principle of aggregate combination, dry-rodded bulk volume as the basis of measured aggregates, and contemplating rigid and ordinary control of proportioning, was sponsored by the Portland Cement Association from 1911-1929. Successful employment of this method required rigid laboratory control under the supervision of a skilled concrete physicist, a revolutionary idea which architects, engineers and contractors were not prepared to accept, and the Association abandoned the method in 1929, for approximate water-cement ratio control and methods, as more simple. (See "Design & Control of Concrete Mixtures," Third Edition, January 1929, by Portland Cement Association, and "Structural Materials Research," Laboratory, Lewis Institute).

The Abrams water-cement ratio is the first law of mixtures to be established and is highly important as an expression of that relation which has the most general influence upon the strength of the concrete. It is not an absolute law, however, as the empirical constants for given conditions vary with varying conditions such as skill of control, quality of aggregate and cement, maximum size and grading of aggregate, and proportion of cement paste. For example, with a W/C ratio of 1.0, the variation is found to be from 1000 to 3000, because of these varying conditions. As of these same, Mr. Abrams finds expressions: $K_s = 14,000/7x$ for rigid control, and $K_s = 14,000/9x$ for ordinary control, in which $X = W/C$, the water-cement ratio.

The practical expression of them is

$$W = CF(G - \log K_s)$$

in which W is the water content of the mix, C is the cement content, K_s is the compressive strength of the concrete at 28 days and F and G are constants for a given set of conditions. This law is incomplete itself but furnishes the required law, Specification (2), since discovery of Specification (1) has been accomplished by the writer.

THE FINENESS MODULUS, one of the most important and of physical measures of aggregates, is closely proportional to the average diameter of particles and to the surface area of particles and therefore determines the amount of water required for a given plasticity index for a given cement content. This has the advantage that it is readily determined from the otherwise dif-

an analysis of the particles. It gives the size modulus for the required law, Specification (3a), but not a law of variation of such modulus. It does not satisfy Specification (b) it is not an indication of grading. The highest and most useful exponent of the Abrams calculation method is that presented in "Design and Control of Concrete Mixtures," Second Edition, January 1927, by Portland Cement Association. This edition contains diagrams showing the same of the rod-ded bulk volume of aggregate and the maximum size of aggregate and the maximum modulus of the aggregate mix of concrete of 1500, 2000, 2500, 3000, and 4000 pound strength, for 1/4", 1/2", 3/4", 1", 1 1/2", 2" and 3" maximum size of aggregate, for average slumps of 4 1/2", 6 1/2" and 9". This method is ordinary control. The calculation method is fairly well developed, considering the limitations of the dry-rod-ded bulk volume as the basis of measurement and the basis of determination of the cement content. The modulus of the aggregate for two sizes of aggregate in the mix and not for three or more as usually necessary.

The Abrams method of control of concrete production was more scientific and accurate than any method developed before. The dry-rod-ded bulk volume as the basis of measurement was a stumbling block to the lay engineer not familiar with the use of the absolute volume. A wrong interpretation was generally employed to produce mixtures of such conditions as to result in a mix as much as or more poor concrete than prevailed under the older methods. If it had been co-ordinated with Peret's use of absolute volume as the basis of measure, many of the difficulties of its use would have been removed and the architect, engineer, contractor and owner would have been convinced of the value of the technological control of concrete production.

THE "TALBOT" GRADING EQUATION was developed and used by Talbot, Richard and Gonnerson. In research tests at the University of Illinois, prior to October 1923, employing Peret's absolute volume basis of measure of ingredients (See Bulletin No. 137, Engineering Experiment Station). Their tests, termed Series "A," show position and significant results uncommon in concrete tests and clearly indicate the value of the grading equation and of use of the absolute volume basis. A modified expression of the equation is

$r = 1 - (d/D)^n$ in which r is the proportion of aggregate by absolute volume retained on a given sieve opening of d inches. D is the maximum size of the aggregate and n is an exponent. By changing the value of n , a grading of any size modulus may be obtained. It provides a simple grading equation, particularly suitable under Specification (3a) which the writer has co-ordinated with the absolute modulus principle by developing an ALGEBRAIC METHOD OF GRADING the proportions of three or more sizes of job aggregates for a mix of uniform grading of a given fineness modulus. This determination was made by the writer in January, 1925 (see Western Construction News, Jan. 25, 1927, and Concrete, November, 1929).

Beginning January, 1925, the writer employed Peret's absolute volume basis of measure in coordination with the absolute modulus principle and a maximum fineness modulus in combination with Talbot's grading equation. A Peret's procedure of preliminary work was coordinated with the writer's procedure of constant laboratory control of an "weight-volumetric" procedure of aggregate and concrete

THE KITTS ABSOLUTE BASIS METHOD (See Proceedings, American Concrete Institute, 1929) was developed, practically usable coordination of the fundamentals outlined herebefore, but, we have groped forward through the dark areas of knowledge of concrete mixtures to the year 1929 without finding the needed laws of the cement content and of the grading modulus, Specifications (d) and (3a).

THE LAW OF THE OPTIMUM CEMENT CONTENT and of the OPTIMUM FINENESS MODULUS were discovered by the writer in Jan., 1929 and published in Concrete, Nov., 1929. These complete the required laws herein specified and are summarized in the following paragraphs.

Laws of Mixtures

The law of the OPTIMUM CEMENT CONTENT is expressed by the equation

$$\log C = BK_c + A \quad (1)$$

in which C is the cement content in a unit of concrete, K_c is the compressive strength and P and A are constants for a given maximum size of aggregate and slump of concrete of given materials. For any given slump with given materials, the value of A varies as the logarithm of the maximum size of the aggregate and, for a given maximum size, A varies uniformly with the slump.

This law is readily proven by the data embodied in the diagram of mixture relations, based on "Curve A," shown on page 29 of the January 1927, edition of "Design and Control of Concrete Mixtures," by Portland Cement Association. Plotting Cement, lbs. per cu. yd. of concrete, to logarithmic scale, and Strength, lbs. per sq. in., on uniform scale (using semi-log coordinate paper), the cement content to strength relation will be shown as straight line sloping each maximum size of aggregate and slump. The most probable values of K_c and B are best obtained by employing the method of least squares in analysis of the five values of cement content and strength given in the diagram for a given maximum size of aggregate and slump.

The corresponding WATER-CEMENT-CONTENT LAW is the Abrams law

$$W = FC(G - \log K_c) \quad (2)$$

in which W is the mixing water per unit of concrete and F and G are constants.

The corresponding AGGREGATE CONTENT LAW is

$$AV = (K_v/K_y) - (C_v + W_v) \quad (3)$$

in which AV , C_v and W_v are the absolute volumes of aggregate, cement and water, respectively, K_v is the corresponding absolute volume of concrete required and K_y is as given in Equation (4).

The corresponding OPTIMUM FINENESS MODULUS LAW is

$$f.m. = D(\log C - E) \quad (3a)$$

in which D is a constant for a given cohesion of mix and E is a constant for a given maximum size of aggregate. P is a minus quantity and varies as the logarithm of the maximum size of the aggregate.

The corresponding GRADING EQUATION is

$$r = 1 - (d/D)^n \quad (3b)$$

in which r is the proportion of aggregate by absolute volume retained on given sieve opening of d , D is the maximum size of aggregate and n is an exponent, depending upon the f.m., Equation (3a).

The corresponding LAW OF YIELD OF COMBINATIONS is

$$K_y = C_v + W_v = 1.00 + 0.01 + (4)$$

$$AV + CV + W_v$$

The exact value of the yield depends upon the volume of entrapped air and volume of cement going into solution, and varies from .97 to 1.03 as usual extremes.

Values of the Constants A , B , D , E , F and G , and the use of these laws in a practical example will be given in Part 4.

San Francisco, January 26, 1931.

"SIX COMPANIES" LOW ON HOOVER DAM

The Six Companies, Incorporated, of San Francisco, bidding \$48,893,000 submitting the lowest regular bid to the U. S. Reclamation Service at Denver, Colo., to construct the Hoover-Boulder Dam, power plant and appurtenant works in connection with the Boulder Canyon Project.

The Arundel Corporation of Baltimore submitted the second lowest bid at \$53,893,878.

Woods Brothers of Lincoln, Nebraska, submitted the third lowest proposal at \$58,653,107.

Six Major Firms

The Six Companies, Inc., is a combination of firms comprising the largest operators in the construction field in the West. The organization consists of the following firms:

- Utah Construction Co. of Ogden, Utah, with branch offices in the Philippines, San Francisco.
- MacDonald & Kahn, Financial Center Bldg., San Francisco.
- Morrison-Knudson Co., Continental National Bank Bldg., Boise, Idaho.
- J. F. Shea & Co., Henry Building, Portland, Oregon.
- Pacific Bridge Co., Foot of East Salmon St., Portland, Oregon.
- W. A. Betchel Co., 155 Sansome St., San Francisco, and the Kaiser Paving Co., Latham Square Bldg., Oakland.

The Hoover-Boulder Dam project is located on the Colorado River, approximately 30 miles southeast of Las Vegas, Nevada.

With a height of 730 ft. from top to lowest point of the foundation, nearly twice as tall as any dam yet built, and a length of 1180 ft. along the crest, the huge gravity arch structure, with its appurtenant works, involves features of design and construction without precedent in the history of projects of this type.

The magnitude of the job is best indicated by a few of the estimated contract quantities as follows:

- 1,900,000 cubic yards of all classes of open cut excavation.
- 1,900,000 cubic yards of tunnel and shaft excavation.
- 1,200,000 cubic yards of earth and rock fill in cofferdams and river channel protection.
- 4,600,000 cubic yards of concrete.
- 228,000 cubic feet of grout.
- 190,000 linear feet of grout and drainage holes to be drilled.
- 5,500,000 pounds of reinforcement bars to be placed.
- 1,900,000 pounds of small metal pipe and fittings to be installed.
- 32,500,000 pounds of large metal conduits to be installed.
- 10,600,000 pounds of structural steel to be installed.
- 20,000,000 pounds of gates, hoists and other metal work to be installed.

CONTRACTORS OF AGGREGATE SAND DIEGO ELECT

R. E. Hazard of the Hazard Contracting Company, San Diego, was elected president of San Diego Chapter, Associated General Contractors of America.

Fredrick Jarboe of the Jarboe Construction Company was elected vice-president.

New directors are: George R. Daley, E. L. Kier, V. R. Dennis, E. P. Watson, Jr., and M. H. Golden. M. A. Mathias is manager of the Chapter.

THE OBSERVER

What He Hears and Sees on His Rounds

According to word from Olympia, Wash., the proposed licensing of contractors under the terms of House Bill No. 90 has been indefinitely postponed which is generally taken to mean that the measure is "dead" in so far as this session of the state legislature is concerned. When considered on February 3 the bill was referred to the committee on labor and labor statistics before which body it still remains. There is but remote chance of its passing with an even more doubtful possibility of the governor signing it, according to reports.

A program of paid advertising in St. Louis newspapers is being sponsored by the Industrial Club of St. Louis to advocate new building and thorough-going maintenance work as a means of providing employment.

The point is made in one of the advertisements that: "New building and the extension and repair of existing buildings, create jobs quicker and in a bigger way than anything else. Such activity—when the manufacture and transportation of materials as well as their erection is considered—is about 80 per cent labor. It is no better to spend money to create such useful jobs than to spend it for 'doles,' or charity, or the support of an army of idle workers."

A study by the U. S. Department of Labor of the trend of real wages from 1913 to 1929 shows that average hourly wage rates were 133 per cent higher in the latter year, but when allowance is made for the decreased purchasing power of money it is estimated that the increase in real hourly wage-rates over this period was only 36.4 per cent.

The growing tendency to exclude older workers from industry, either through the establishment of definite age limits for hiring, or by the unannounced but still effective practice of hiring only the younger applicants is shown by two recent reports from the States of California and Maryland. In both States the practice seems to be sufficiently common to affect a considerable portion of the workers.

North Central Gas Co. of Casper, Wyo., will shortly let a contract for the construction of 378 miles of natural gas pipe line, from Muskrate Field, 75 miles west of Casper into Western Nebraska. The line will consist of 227 miles of 14-inch pipe, 10 miles of 12-inch, 78 miles of 10-inch and 63 miles of 8-inch pipe. The cost is estimated at \$6,000,000 including two booster stations.

A special election to vote between \$9,000,000 and \$12,000,000 for school construction will be called by the Los Angeles Board of Education for March 27. The election will be held coincidental with the present session of Congress Superintendent of Schools Upjohn on the question of forming a junior college district.

Representative Welch of California, who became chairman of the labor committee late in the present session of Congress scored his first victory last Saturday when the House finally agreed to the bill requiring contractors on public buildings to observe the local wage scale when employing men to erect federal buildings.

Plans for providing the aged of San Jose with a home and companionship with a minimum of worry are announced by Dr. C. A. Boyd, retired physician, of 698 South Eighth St., that city.

Dr. Boyd's plans call for construction of an "associated home apartment" house in which apartment homes could be provided aged persons at a cost of \$2000 each.

The apartment house would be financed by issuance of stock to the residents. Cooking would be done in a community kitchen in hotel style. Purchase of food and other supplies would be done on a wholesale scale, cutting down expense.

Dr. Boyd proposed a two acre site near the edge of the city for the place, saying that such a location would give the aged residents of the apartment house room in which to walk without having to cross dangerous main streets.

Harry Lesser, Oakland paving contractor convicted in the Oakland paving graft expose, will be granted a reprieve on April 27, members of the State Prison Board announce. Lesser entered San Quentin June 28, 1926, to serve a two-year sentence. He was granted a half-time parole, with several months subtracted for good behavior, so that his term will be approximately 10 months. Lesser, convicted of bribery and conspiracy, also assessed a \$5000 fine.

The Southern Counties Gas Company, Los Angeles, will shortly let a contract to furnish approximately 210 mile of 26-in. steel pipe to be used in the construction of the natural gas pipe line between Long Beach and the Kettleman Hills which the Southern Fuel Co. (owned jointly by the Southern Counties Gas Co. and the Southern California Edison Co.), will build. The pipe order will amount to approximately \$3,500,000.

Lakeview, Ore., a town of 2000 inhabitants will soon be heated by natural hot water, it is believed. Drilling in a hot water well brought forth a good supply of water 200 degrees hot at 550 feet. Two houses and a hotel are already being heated by water from the well.

The Hammond and Little River Redwood Lumber Company organized under the laws of Delaware, with an authorized capital of \$12,000,000 and doing business in Humboldt and Del Norte counties, has filed articles of incorporation with Secretary of State Frank C. Jordan. S. L. Raem of San Francisco, is named as California agent.

Frank Hassey, president of the Hollywood Plumbers' Club, in addressing the February meeting of the Master Plumbers' Association of Los Angeles, "cited actual figures proving that with journeymen's wages at \$9.00 per day, it is impossible to do work at a profit at less than \$2.00 or \$2.25 per hour."

Maurice Powers, city building inspector of San Mateo, reports the issuance of 55 building permits during the month of February for improvements involving an expenditure of \$188,920.

ALONG THE LINE

Hydrauger Corp., Ltd., of San Francisco, has appointed W. A. Kohlhoff sales engineer. Mr. Kohlhoff was formerly with the gas engineering department of the Pacific Gas & Electric Co.

Lieut. General Edgar Jadin was former chief of engineers of the Army, died unexpectedly of a cerebral hemorrhage in the Gorgas Hospital at Panama City, last Monday. General Jadin went to Panama on February 25 in connection with a meeting to determine whether a Panamanian canal shall be built to interconnect commerce or whether the Panama Canal shall be fitted out with a new set of locks. General Jadin was born August 7, 1865, at Home Pa. He was graduated from West Point in 1890 and immediately into the Engineering Corps. He came a lieutenant general upon retirement in 1929.

Frank B. Durkee of Sacramento has been right-of-way agent for the California State Division of Highways under Col. Walter E. Garrison, director of public works. Durkee, an attorney, formerly was editor of the California Highway Bulletin and was attached to the legal staff of the highway division.

Wm. Harris, general painting contractor, 305 Ripley Ave., Eureka, has been admitted to membership in the Builders' Exchange of Contra Costa County, it is announced. A. Brown, secretary of the exchange.

Wallace B. Boggs, civil and consulting engineer, who recently resigned as principal assistant in the office of George A. Posey, county surveyor, Alameda county, has opened office 1448 Webster St., Oakland, and engaged in private practice. He specializes in subdivision, department and city planning, street and sanitary and municipal engineering, industrial reports and appraisals. Boggs is an associate member of the American Society of Civil Engineers and a graduate of the University of California with the class of 1912. During the war he served as an officer in the Engineer Corps in France, Germany.

Joseph M. Evans, a member of a general contracting firm of Evans & Son of Chico, died in Chico March 2 after a prolonged illness. Evans has 65 years old and was a native of Pike County, Ill. He had been in Chico in 1903 since that time he engaged in general contracting.

The Senate last Tuesday ordered an investigation by the Federal Commission of Government contracts for public buildings. The resolution introduced by Senator Shipnuck, Farmer-Labor, Minn., directed inquiry into the existence of price-fixing agreements in the manufacture of building materials and possible collusion between bidders and Treasury Department officials.

Emeryville, Calif., reports that issuance of permits for seven new buildings during the month of February, 1931, these costing \$24,000 and 22 alteration permits with a value of \$14,044, bringing the total expenditures for the month to \$38,344.

HERE—THERE EVERYWHERE

lection of executive officers by the Int'l-Marshall Corp. is announced. H. Blakely, President, Elbert Ibbis is elected Vice-President in charge of Production, Charles M. Se, Vice-President in Charge of and E. J. Patterson, Vice-President and Treasurer. All three men have been with McClintic-Marshall the former management, serving in similar capacities.

ster Painters' Association of San will be guests of the Pittsburgh Glass and Paint Co., at a banquet in the new Hotel De Anza at 10:30 on March 11. A moving picture featuring the manufacture of glass will be a part of the program.

C. Miller of Seattle was re-elected president of the Western Re-umbermen's Association and R. own of Spokane, was re-elected ary, at the annual meeting of body held in Tacoma last week.

ordinance of the city of El requiring contractors to pay a fee of \$50 a year will be re-elected, it is stated by Mayor Mackay it city. Only one construction operating in El Monte has paid e and the mayor does not bet should be penalized when other ctors refuse to comply with the nece.

ng to important matters to come this session of the Legislature, te for the semi-annual conven- the California State Builders' ssion has been set forward to 20 and 21 at Fresno, it is an- ed by Harry Cayford, executive y of the state organization. Meeting was originally scheduled ril 11. The afternoon and even- Friday, March 20, will be spent mitted work and general busi- sessions will be held all day ay, March 21. Headquarters e maintained at the Hotel

ing San Diego as from the 1932 city, delegates of the Califor- nity Council of Carpenters closed annual convale at Sacramento . All incumbent officers were ted. They were J. F. Cam- of San Mateo, president; R. W. on Los Angeles, vice president; and W. San Jose, secretary. A executive board comprised of Benton, Long Beach; George rd, Fresno, and Fred Few- San Francisco.

bers of Logan, Utah, meeting y with members of the city- sion, indicated their approval nations proposed for plumb- electricians who operate in . Members of the trade will not wed to work in the city unless e an examination, as provided cent city ordinance.

Zorize, representing the Fraser ating line of appliances, has the store section of the Contra ty Builders' Exchange at 216 Fourteenth St., Rich- and is announced by W. A. exchange secretary. Zorize ty a complete stock of Fraser ting products enabling him to llify orders in the Richmond which is now served with na- is.

TRADE NOTES

Pacific Electric Mfg. Co., of San Francisco, has appointed Roy Wilkins vice-president in charge of engineering. Mr. Wilkins was associated for 15 years with the Pacific Gas & Electric Co., and at the time of his resignation was assistant engineer in the division of hydro-electric and transmission engineering.

J. H. Roper and E. J. Dabadie of Santa Cruz have formed a partnership which will open a lumber yard at 575-578 Soquel Ave., in that city.

Kennedy Valve Mfg. Co. has appointed John J. Poy as its southern California representative, with headquarters at Los Angeles.

Dominion Bridge Co., Montreal, Canada, has entered into an agreement with the Steel Pipe & Line Company (Hume's), Ltd., of Australia, to form the Hume Pipe Co. (Canada), Ltd., for the manufacture of plain and reinforced concrete, steel and other varieties of pipe under Hume patents.

Woodbury & Wheeler Co., Portland, Ore., has been appointed distributor of the complete line of welding equipment manufactured by the Westinghouse Electric & Mfg. Co., Pittsburgh, Pa.

L. W. Corbett was elected president of the Peoples Lumber Company of Ventura, succeeding J. M. Sharp of Santa Paula, who had retired after 40 years' service as president and director. Watson A. Bonestell of Ventura, who has also been in active service with the company for 40 years, was re-elected vice-president.

BETTER BUSINESS SEEN BY PACIFIC COAST AGGREGATES

Pacific Coast Aggregates, Inc., reports a gross profit from 1930 operations amounting to \$708,472. Total sales for all products for the year were \$3,174,788, and rock, sand and gravel sales were in excess of 2,500,000 tons.

In connection with the tonnage sold, the annual report of the company calls attention to the fact that building permits in the territory served were the lowest last year of any year since 1920, being approximately 35 per cent less than 1929 and 45 per cent below 1928.

Consolidated earnings reports indicated that interest on the company's bonds was earned 1.85 times, and debenture interest requirements were covered 2.11 times.

The balance sheet as of December 31 showed a healthy financial condition, current assets totaling \$1,074,650 against current liabilities of \$322,076, giving a current ratio of 3.13 to 1. Plant properties, structures and equipment, less depreciation and depletion reserves, were shown at \$18,361,354.

Funded debt of the corporation was reduced \$48,000 during the year, President Charles M. Cadman reported, through retirement of first mortgage bonds and debentures.

During the year thirteen plants were operated, either steadily or intermittently, and tonnage on the books for future shipment, as of Jan. 1, amounted to approximately 320,000 tons.

Better business conditions are looked for by the officers in the summer and fall of this year.

TRADE LITERATURE

Industrial locomotives powered with McCormick-Deering units, including engine, clutch and transmission, in sizes ranging from 4 to 12 tons are described in a 12-page illustrated booklet of the Brookville Locomotive Co., Brookville, Pa.

Building contractors—and particularly speculative builders—will be interested in the new hardware catalog just issued by the P. and F. Corbin Co., New Britain, Conn. The catalog features a greatly enlarged assortment of a type of hardware which is appropriate for the greater number of homes being built today. A copy will be sent upon request.

One of the basic reasons for the formation of the National Engineering Inspection Association has been the establishment of Methods of Procedure regarding specific items of engineering inspection, it is announced by E. H. Witherspoon, secretary-treasurer of the association with headquarters in Pittsburgh, Pa. The first of these Methods, which have been set up as tentative in order to invite suggestions which will lead to the adoption of permanent Methods of Procedure, have been published and are now being distributed.

SAN ANSELMO BUILDING PERMITS

Charles H. Cartwright, building inspector of San Anselmo, reports the issuance of eight building permits in February, 1931, for improvements aggregating an expenditure of \$19,750, as follows:

Mrs. Pike. Garage. Lot 24 and portion Lot 23, Kohn Tract. Laurel Ave. Est. cost, \$200.

C. Hansen. Alterations and repairs. Portion Lot 17, Davidson Tract. Olive Ave. Est. cost, \$200.

P. Tierney. Dwelling. Portion Lots 28 and 29, Yolanda Court. Yolanda Drive. Est. cost, \$9500.

F. G. Glassford. Dwelling. Lot 14 Bldg. 2, Morningside Court. Est. cost, \$3500.

F. Frates. Garage. Portion Lot 10 Ross Valley Tract. Est. cost, \$200.

Mrs. Stenzel. Alterations. Lot 49, Linda Vista Tract. Cedar St. Est. cost, \$150.

E. Rhoades. Dwelling. Lot 10 Blk 7, Morningside Court. No. 1 Morningside Drive. Est. Cost, \$3000.

E. Rhoades. Dwelling. Lot 3 Blk 7, Morningside Court. No. 1 Morningside Drive. Est. cost, \$3000.

AUTOMATIC STEEL DOOR INCORPORATES

The Automatic Steel Door Corporation of Sacramento, has filed articles of incorporation with Frank C. Jordan, secretary of state.

The officers of the company, as revealed by the articles, are: William Alderson, E. R. Winn, Regina Alderson, William Luard, Orlin Bedigrew, and Vera Winn.

The purpose of the company is to manufacture and sell fire doors and other steel doors for warehouses, garages, hangars and other purposes.

The capital stock of the company is 250,000 shares with a par value of \$1 each.

CHEMICALLY TREATED LUMBER RECOMMENDED

The building code recently prepared by the Better Home Construction Bureau of Oklahoma City recommends the use of chemically treated lumber in the floor joists and sub-floors of house and building construction to prevent damage by insects and decay, according to advice just received by the National Committee on Wood Utilization of the Department of Commerce.

Under the heading "Termite Prevention" the code reads:

"Due to the fact that subterranean termites (white ants) are known to be present in Oklahoma City, a warning against these destructive pests is in order. Every precaution should be observed to prevent their entrance into buildings and the resultant damage of their attack. We endorse the use of treated lumber for floor joists and sub-floors, wherever practical, which for the purpose of protection, may be well worth the additional expense to the owner. We insist that requirements for clearance of joists, cleanliness and ample ventilation be strictly adhered to, in order to remove conditions most favorable to both termite attack and also deterioration from decay-producing fungi."

The Better Home Construction Bureau is maintained by the loan companies of Oklahoma City to promote better-built homes and furnish information for use in regulating loans. The Bureau relied upon information concerning treated lumber contained in publications on termite prevention written by Dr. Thomas E. Snyder, Senior Entomologist, Bureau of Entomology, Department of Agriculture, and the bulletin "Treated Lumber, Its Uses and Economics," published by the National Committee on Wood Utilization.

ROAD CONTRACTORS TO DECLARE WAGES

Contractors bidding on state highway construction in Arizona will be required to declare the minimum wage scale which they intend to pay before they are permitted to qualify to submit proposals on any project.

This is the policy of the Arizona State Highway Commission, announced following the receipt of a telegram from Thomas H. MacDonald, chief of the Bureau of Public Roads, stating the Federal administration is opposed to any reduction in wages and recommending that contracts for Federal-aid work should be made on the basis of the wages prevailing in different communities where the projects are located.

The prevailing wage scale for common labor on highway work in Arizona is \$4 per day, according to the commission, and this will be the minimum. Highway contractors in Arizona will also be required to furnish the commission with a personnel record of all employees. Preference must be given to Arizona labor.

According to an Associated Press dispatch this country is surfeited with laws. There are so many statutes that it is utterly impossible for the average citizen to be conversant with them, even superficially. This superfluity of statutory law tends to lower general respect for law. It should be the purpose of all legislative bodies to keep down to the minimum the number of legislative enactments. Fewer laws, and laws of better quality, is the supreme need of the hour throughout the Nation, says the Pasadena Star-News

THERMIC SYPHON IN STEAM LOCOMOTIVES

The thermic siphon, one of the recent innovations in steam locomotive design, is a supplementary water-leg or circulating chamber applied in the firebox of the locomotive. Its purpose is to stimulate the circulation of the boiler water and to increase the transfer of heat from the fire to the steam. First available in 1918, there have been installed since then about 12,000 siphons in the locomotives on American and Canadian railroads.

Although in its twelve years of use the siphon has been subjected to numerous tests on the road, the reports of the tests presented in Bulletin No. 220 of the Engineering Experiment Station of the University of Illinois is the first published record of tests made in a locomotive testing plant where the conditions of operation can be rigidly controlled. The bulletin gives the results of 24 tests of a Mikado-type freight locomotive which was operated first without the siphons and again after they were installed. The experiments were made by the Railway Engineering Department of the University of Illinois in cooperation with the Illinois Central Railroad and the Locomotive Firebox Company.

Tests were made at four rates of evaporation covering the ordinary range of operation in daily service and at speeds of from 14 to 32 miles per hour. The cut-off varied from 25 to 45 per cent. Twenty thousand pounds of coal were burned in each test.

The report shows that at the four rates of evaporation the increase in boiler efficiency effected by the siphon was 11.6, 8.4, 7.3 and 6.6 per cent, respectively, the general average increase for all four rates being 8.5 per cent; that is, under identical conditions of operation the weight of steam generated per pound of coal would be on the average 8.5 per cent greater with the siphon than without it. Other factors of boiler performance such as steam pressure and the degree of superheat in the steam were substantially alike with and without the siphons.

Results of Bulletin No. 220 may be obtained without charge by addressing the Engineering Experiment Station, Urbana, Illinois.

CONSTRUCTION FOR PROTECTION AGAINST TERMITES

Even timber set in concrete is not safe from damage if the concrete is porous, for termites or white ants may still find their way through crevices to the wood and riddle the timber, entomologists of the U. S. Department of Agriculture say.

Termites have been found guilty of riddling wooden foundations of buildings, the under surfaces of floors, bureau drawers, furniture in general, stored paper, old shoes and cotton fabrics and yarns. They often do considerable damage on hidden surfaces before it becomes evident. Termites also damage living fruit and timber trees, crops and general vegetation.

Dr. T. E. Snyder, entomologist of the U. S. Department of Agriculture, author of a recently revised bulletin dealing with the termite problem, points out that termite damage can be prevented by proper construction of buildings, disconnecting wood from the ground or replacing it with non-combustible material, by chemical treatments of wood and by clean culture or use of insecticides in the crops.

Copies of Farmers' Bulletin 1472-F, Preventing Damage by Termites or White Ants, can be obtained free of charge to the U. S. Department of Agriculture, Washington, D. C.

RESIDENTIAL COST \$4.79 PER SQ. FOOT

The construction of dwellings and other residential structures now is going forward throughout the U. S. at a unit cost to the owners of 7.2 a square foot of floor area, according to the Seattle Journal of Commerce.

This is an average unit construction cost computed from the total volume of this class of new buildings for the last several months. The cost of residential and other forms of construction is lower than at any time in several years. This is due to the low level of prices of building materials and all other commodities. Wages in building have fallen at the union scale show no decline.

The average construction cost per square foot of floor area for principal types of building are shown in the following table:

Class of Building	Cost per Square Foot
Dwellings, residential	7.2
Schools	8.0
Commercial buildings	8.5
Public buildings	9.0
Hospitals	10.0
Churches	10.5
Factories	11.0

Residential construction is now at a low ebb due to unemployment, also, it is believed, to a surplus of living quarters.

Construction of public buildings is increasing as a result of the effort to provide employment through increased appropriations for work in this class.

HIGHWAY AND BRIDGE BIDS ASKED

Bids have been ordered received by the State Highway Commission, and opened on March 25, for one bridge and three highway projects.

In Monterey County, bids are invited to construct a reinforced concrete bridge over the Garrapata Creek 1.5 miles south of Monterey, consisting of one 150-ft. arch span and five 50-girder spans on concrete abutments and piers.

Bids are wanted to grade and pave with concrete, 11.1 miles between 1.5 miles north of Salinas and the city boundary in Monterey County and 8.3 miles of concrete paving in Angeles County between La Grana Creek and Campo Road Junction to grade and oil 7.5 miles between Bailey's Ranch and the Newmans School in Los Angeles County.

The Railroad Commission has issued an order suspending, pending investigation, a freight tariff filed by the Atchison, Topeka & Santa Fe Railway Company, to be effective about 28, 1931, which provides for a change of switching charges of Santa Railway Company, not to exceed 10¢ per car, on shipments of rock, sand and gravel from the industry track of Atlas Rock Company to the interchange tracks of Sierra Railway Company when destined to all points on the Santa Fe and points on the Southern Pacific lines competitive with the Santa Fe.] Objections have been made to the commission that the proposed tariff will result in prejudicial and discriminatory charges against certain shippers, and unauthorized departures from the long and short haul provisions of the Public Utilities Act. The matter has been set for hearing before Commerce Commissioner Sweeney in the Court Room of the commission at San Francisco, on March 10, 1931, at 10 A. M.

Building News Section

APARTMENTS

February 28, 1931
 Contract Awarded.
APARTMENTS Cost, \$475,000
LOS ANGELES, Cal. NE San Marino
 and Serrano Aves.
 Ten-story and basement class A apts.
 (109x128-ft.)
 Owner—Wilshire Income Properties,
 Ltd., Subway Terminal Bldg., Los
 Angeles.
 Architect—Austin & Ashley, Chamber
 of Commerce Bldg., Los Angeles.
 Contractor—United Constructors, Ltd.
 627 Loomis St., Los Angeles.

Bids Opened.
APARTMENTS Cost approx., \$20,000
SANTA ROSA, Sonoma Co., Cal. 7th
 and A Streets.
 Two-story frame and stucco apart-
 ments (6 apts.)
 Owner—P. Glambini and S. Testorelli,
 Santa Rosa.
 Architect—Wm. Herbert, Rosenberg
 Bldg., Santa Rosa.
 Low Bidder—E. Ahlstrom, 411 Short
 St., Santa Rosa.
 Next lowest bid was submitted by
 W. J. Lindsay, Santa Rosa, at \$14,
 400. Highest bid was submitted by A.
 M. Hildebrand, Santa Rosa, at \$15,
 000. Bids held under advisement.

March 3, 1931
 To Be Done By Day's Work.
APARTMENTS Cost, \$40,000
SAN FRANCISCO, W Nineteenth
 Ave. N California St.
 Three-story and basement frame and
 stucco apartments (12 apts.)
 Owner and Builder—Stein & Krieg, 734
 30th Ave., San Francisco.
 Plans by P. Krieg, 139 19th Ave., San
 Francisco.

Plans Complete.
SAN MATEO, San Mateo Co., Calif.
 Fourth Ave. and San Mateo Dr.
 Three-story and basement wood frame
 and stucco apartments (27 2-3-
 and 4-room apts.)
 Owner—Withheld.
 Architect—Oscar Thayer, 110 Sutter
 St., San Francisco.
 Steam heating, oil burning system,
 two garages with turn tables in each.
 Bids will be taken about March 10.

Plans Being Completed.
APARTMENTS Cost, \$16,000
SAN FRANCISCO. Location not given
 Two-story frame and stucco residence
 and apartments (6 room residence
 and two 3-room apts.)
 Owner—Withheld.
 Architect—Powers and Ahnden, 605
 Market St.
 Bids will be taken in about 1 week.

Completing Plans.
APARTMENTS Cost, \$85,000
SAN FRANCISCO, N Pacific Avenue
 75 E Gough Street.
 Six-story and basement Class C con-
 crete and steel frame apartments
 (24 3-room apts.)
 Owner and Builder—T. B. Strand, 668
 Funston Ave., San Francisco.
 Architect—Irvine & Ebbets, Call Bldg.,
 San Francisco.
 Sub-bids will be taken in one week.

Completing Plans.
APARTMENTS Cost, \$85,000
SAN FRANCISCO, N Pacific Avenue
 120 E Gough Street.
 Six-story and basement Class C con-
 crete and steel frame apartments
 (24 3-room apts.)

Owner and Builder—T. B. Strand, 668
 Funston Ave., San Francisco.
 Architect—Irvine & Ebbets, Call Bldg.,
 San Francisco.
 Sub-bids will be taken in one week.

BONDS

SAN PABLO, Contra Costa Co., Cal.
 —Election will be called shortly by
 Seldon School District to vote bonds
 of \$6,000 to finance erection of a new
 school containing 2 classrooms. Trus-
 tees of the district are: P. L. Castro
 (clerk); Harold Skow and A. J. Stee-
 ves.

ROSEVILLE, Placer Co., Cal.—Bond
 election in amount of \$112,000 will
 be held by Roseville School District
 shortly to finance construction of ad-
 ditions to present schools and con-
 struction of new buildings.

FRESNO, Fresno Co., Calif.—City
 council passes resolution to place two
 bond proposals on the April 13 ballot,
 one providing for \$1,250,000 to finance
 the purchase of a site and the crea-
 tion of a municipal auditorium and
 \$750,000 for the purchase of land for
 a civic center.

ONTARIO, San Bernardino Co., Cal.
 —Ontario elementary school district
 affirmed an \$85,000 bond issue for con-
 struction of new elementary schools in
 Ontario. Program includes erection of
 new building at corner of Sultana
 and Sixth Sts., additions to Lincoln
 school, enlarge San Antonio school,
 remodel portion of South Euclid school
 and enlarge junior high school. Ar-
 chitect not selected.

LOS ANGELES, Cal.—Los Angeles
 Board of Education called election for
 March 27 at which time bond issue
 between \$9,000,000 and \$12,000,000 for
 new school buildings will be sub-
 mitted to electorate. Practically all
 of proceeds would be used for actual
 construction and most of the work
 would consist of additions to exist-
 ing school structures.

SAN MATEO, San Mateo Co., Cal.
 —City council will place proposal on
 April 7 ballot to vote bonds of \$30,000
 to finance erection of a fire station in
 Beresford Park and the purchase of
 additional fire fighting equipment and
 to remodel a sub-station in Bellevue
 Avenue.

SKILSAW Portable Electric Hand
 Saws (4 models).
SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attach-
 ments.
SYNTRON Portable Electric Ham-
 mers (4 models, motor-
 less).
MALL Flexible Shaft Machines (50
 models).
 Electric Drills, Grinders, Buffers,
 Routers, Lock Mortisers.

PETER H. NELSON
 Labor Saving Portable Electric
 Tools.

1248 Mission St. Underhill
 San Francisco 7852
 SALES . SERVICE . RENTALS

CHURCHES

Plans Being Completed.
CHURCH Cost, \$25,000
SAN FRANCISCO, Bush Street N.
 Divisadero Street.
 One-story frame church.
 Owner—West Side Christian Church.
 Architect—Bertz, Winter & Mau,
 210 Post Street.
 Bids will be taken in about 10
 weeks.

Plans Being Refigured.
CHURCH Cost, \$19,000
SAN FRANCISCO, Thirty-second A.
 and Ulloa Street.
 One- and two-story frame and stue-
 cho church with slate roof (10 st.
 400).
 Owner—St. Stephens Protestant Ep-
 iscopal Church.
 Architect—Charles Strothoff, 2124 J.
 Street.
 Plans have been slightly revised if
 new figures are being taken from a
 three lowest bidders.

Plans Being Completed.
CHURCH Cost, \$20,000
SACRAMENTO, Sacramenno Co.,
 SW Thirty-ninth St. and Fourth
 Ave (72x125 feet).
 One-story reinforced concrete and
 stucco church (seat 250; tile roof).
 Owner—1st English Lutheran Church,
 Sacramento.
 Architect—Wm. E. Coffman, For-
 Bldg., Sacramento.
 Bids will be taken in about 10
 weeks.

UPLAND, San Bernardino Co., Cal.
 —Campbell Const. Co., 223 E. Trau
 St., Ontario, submitted low bid a
 general contract at \$54,100 for fra-
 and stucco church (85x135-ft.) at e-
 corner of Euclid Ave. and C St., Upla-
 for Upland Methodist Church, Rev.
 A. Stayley, pastor. Low bidders a-
 other contracts are as follows: C-
 born Electric Co., Upland, elec-
 wiring, \$3975; F. H. Walker, Mon-
 via Plumbing, \$386; Williams Rad-
 tor Co., Los Angeles, heating, \$218;
 Tondro & Bowers, Covina, paint, \$
 2350. Marsh, Smith & Powell, ar-
 chitects, 518 Architects Bldg., Los A-
 nges.

FACTORIES AND WARE HOUSES

Plans Being Prepared.
FACTORY Cost, \$50,000
OAKLAND, Alameda Co., Cal. Lo-
 tion withheld.
 New factory building.
 Owner—Owens-Illinois Glass Co., (.
 I. Cole, Mgr.), 133 Kearny Str.,
 San Francisco.
 Architect—Eng. Dept. of Owner, 9-
 ledo, Ohio.

Contract Awarded.
BAKING PLANT Cost, \$50,000
MODESTO, Stanislaus Co., Cal. 1st
 and Needham Sts.
 Part 1- and 2-story brick baking plant
 (75x130-ft.)
 Owner—San Joaquin Baking Co.,
 and Los Angeles Sts., Fresno.
 Architect—C. E. Butner, Cory Bld.,
 Fresno.
 Contractor—H. Tennyson, 125 Pop-
 St., Modesto.

F. D. Bradford, president of B
 company, announces \$15,000 has be
 allowed for the installation of mo-
 dern baking equipment.

ids Opened.
IVESTOCK BLDG. Cost, \$125,000
 ACRAMENTO, Sacramento Co., Cal.
 State Fair Grounds.
 ne-story brick livestock building.
 where State of California.
 architect—State Department of Public
 Works, Division of Architecture,
 Geo. B. McDougall, state archi-
 tect, State Office Bldg., Sacra-
 mento.

Following is a complete list of bids:
L. Hansen, 282 7th St., San Francisco \$ 97,500
m. C. Keating, Sacramento, 99,450
J. Hopkinson, Sacramento, 100,437
th & Fox, Sacramento, 101,428
L. Peterson, S. F., 101,498
ho. B. Hunt, Sacramento, 102,000
ho. & Dauger, Sacramento, 103,000
athews Const. Co., Sacto., 103,300
H. Betz, Sacramento, 103,390
Isidor Concrete Co., S. F., 104,645
B. Anderson, Oakland, 104,975
P. Bender, Sacramento, 105,200
ndgren & Swinerton, Sacto., 106,000
Mayson, Long Beach, 106,500
N. Swensen, San Jose, 106,500
T. Lesure, Oakland, 107,600
rensen & Haggmark, S. F., 109,700
Doering, Portland, Ore., 109,875
huler & McDonald, Oakland, 111,239
Gillivray Const. Co., Sacto., 113,800
T. Letter & Son, Oakland, 115,000
McDonell & Kahn, S. F., 116,912

Plumbing and Heating
rechter & Mendenhall, Sacra- mento \$ 8,370
ott Plbg. & Elec. Co., Sacto., 8,389
ppen & Hawley, Sacramento, 10,099
tely & Hatley, Sacramento, 10,677

Electrical Work
E. Turner, 2008 35th Street, Sacramento \$2,278
ppen & Hawley, Sacramento, 2,564
W. Thomas, Sacramento, 2,610
T. Cannon, 2,872
dy Elec. Co., Stockton, 2,785
E. Borlander, 3,340
 bids held under advisement.

ONTARIO, San Bernardino Co., Cal.
 Edison General Electric Appliances
 Ontario, will probably make ad-
 ditional extensions to its Ontario
 plant to take care of the output
 the company's Cicero plant in Chi-
 cago, recently discontinued.

**OAKLAND, Cal.—Grinnell Co., 5th
 11 Brannan Sts., San Francisco**, at
 567 submitted lowest bid to East
 y Municipal Utility District, 512
 h St., to furnish and install sprink-
 n system complete in buildings known
 as "Carpenter Shop" and "Meter
 op" at the district corporations
 d, 22nd and Adeline Sts.
 Following is a complete list of bids:
Grinnell Co., San Francisco, \$1,567.
I. C. Reed & Co., San Francisco,
 35.
Automatic Sprinkler Corp., S. F.,
 323.
**Albertson McCormick Sprinkler Co.,
 San Francisco**, \$1,890.
H. Pinkerton, San Francisco, \$1,
 200.
**King Automatic Sprinkler Co., San
 Francisco**, \$2,180.
 bids held under advisement.

gregated Bids Being Taken.
KERY Cost, \$16,000
N JOSE, Santa Clara Co., Cal. No.
 288 Market Street.
 o-story steel frame and brick
 bakery.
 ner—F. Andreuccetti, 530 S-Sixth
 St., San Jose.
 architect—Chas. McKenzie, Twoby
 Bldg., San Jose.
**el—California Steel Co., Second and
 Harrison Sts., Oakland.**

utual Steel Contract Awarded.
HLER HOUSE Cost, \$12,000
ON, Contra Costa Co., Cal.
 s-story reinforced concrete boiler
 house (steel trusses).
 ner—Associated Oil Co., 79 New
 Montgomery St., San Francisco

Plans by Eng. Dept. of Owner.
**Contractor—Villadsen Bros., 417 Mar-
 ket St., San Francisco.**
**Structural Steel—Independent Iron
 Works, 1820 Chino St., Oakland.**

Miscellaneous Iron Contract Awarded
CLEANING PLANT Cost, \$—
**ALAMEDA, Alameda Co., Cal. 2008
 Enclena Avenue.**
 One-story concrete cleaning plant.
 Owner—Owl Cleaners, premises.
 Architect—R. C. Schuppert, 4637 Park
 Ave., Alameda.

**Miscellaneous Iron—Independent Iron
 Works, 1820 Chino St., Oakland.**
 As previously reported, o n c r e t e
 work awarded to Terhert & Massero,
 635 44th Ave., Oakland.

**SANTA BARBARA, Cal.—General
 Western Aero Corporation Ltd., Mr.
 Vremsak, President, has leased the
 Goleta Airport and will erect a
 hangar on the site to accommodate 35
 planes. The company also proposes
 erecting a factory building at the
 port.**

Wrecking Under Way. Cost, \$—
WAREHOUSE Cost, \$—
SACRAMENTO, Sacramento Co., Cal.
 Front and K Sts.
**Two-story fireproof warehouse (140x
 150-ft.)**

Owner—Mebrus & Drescher, Front &
 K Sts., Sacramento.
Architect—Not Given.
**Wrecking—Capital Wrecking Co., 37th
 and R Sts., Sacramento.**

Contract Awarded.
CLEANING PLANT Cost, \$35,000
**FRESNO, Fresno Co., Cal. N Fulton
 St., S Belmont Ave.**
 Dry cleaning plant (30x150-ft.; Span-
 ish type).

Owner—Fashion Cleaners, Ltd., 1217
 Van Ness Ave., Fresno.
Architect—Not Given.
**Contractor—J. T. Cowan, 750 Eliza-
 beth St., Fresno.**

New cleaning and pressing equip-
 ment will be installed at an additional
 cost of several thousand dollars.

Bids Opened.
FACTORY Cost, \$—
**OAKLAND, Alameda Co., Cal. Eighty-
 first Avenue near E 14th St.**
 One-story reinforced concrete factory.
 Owner—Blue Bird Potato Chips, Inc.,
 68th Ave. and Beek Sts., Oakland.
 Architect—Charles W. McCall, 14 0 4
 Franklin St., Oakland.
**Low Bidder—Albert A. Haskell, 255
 Ridgeway, Oakland.**

Following is a complete list of bids:
Albert A. Haskell, Oakland \$28,575
Wm. Spivock, S. F. 30,550
Villadsen Bros., S. F. 30,950
H. Paige, Oakland 30,960
Barry & Westlund, Oakland, 31,195
Chas. Vezey & Son, Oakland, 31,325
J. H. Moore, Oakland 32,340
R. W. Littlefield, Oakland, 32,840
 Bids referred to owners in Los An-
 gles for award.

GARAGES AND SERVICE STATIONS

Contract Awarded.
SERVICE STATION Cost, \$8000
WILLITTS, Mendocino Co., Cal.
 Frame and stucco super service sta-
 tion.
 Owner—The Texas Co., Hearst Bldg.,
 San Francisco.
 Plans by Eng. Dept. of Owner.
**Contractor—Chas. M. Swansfelt, Riv-
 er Road, Ukiah.**

Plans Completed.
SERVICE STATION Cost, \$—
SAN FRANCISCO, Nineteenth Ave.
 and Lincoln Way.
 One-story brick super service station
 Owner—Associated Oil Co., 79 New
 Montgomery St., San Francisco.

**Architect—Masten & Hurd, Shreve
 Bldg., San Francisco.**
 Plans are now in owner's hands and
 bids will probably be called for
 shortly.

Commissioned To Prepare Plans.
AUTO SALES BLDG. Cost, \$—
**LOS ANGELES, Cal. NE Wilshire
 Blvd. and Marlboro Ave.**
 One and two-story steel and brick
 auto sales building (140x120 ft.)
 Owner—E. L. Cord
 Architect—Albert C. Martin, Higgins
 Bldg., Los Angeles.
 Lessee—Auburn Fuller Co.

Contract Awarded.
SERVICE STATION Cost, \$7000
DAVIS, Yolo Co., Cal.
 Steel frame super service station.
 Owner—General Petroleum Co., 310
 Sansome St., San Francisco.
 Plans by Eng. Dept. of Owner.
Contractor—William Jensen, Davis.

Plans Being Prepared.
SERVICE STATION Cost, \$10,000
**VALLEJO, Solano Co., Cal. Sonoma
 and Ohio Sts.**
 Steel super service station.
 Owner—General Petroleum Co., 310
 Sansome St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Bids will be taken in about three
 weeks.

Preparing Working Drawings.
SERVICE BLDG. Cost, \$55,000
**VALLEJO, Solano Co., Cal. NW So-
 noma and Main Sts. (130x150-ft.)**
 Two-story automobile plant and ser-
 vice building (probably brick con-
 struction).
 Owner—Acme Motor Co. (Vallejo Ford
 Dealers, C. C. Lane), Vallejo.
 Architect—Claude Barton, 5 2 2 Grand
 Ave., Oakland.
 Bids will be taken about April 1.

Sub-Contracts Awarded.
SERVICE STATION Cost, \$7500
**SAN FRANCISCO, NE Twenty-
 second and Howard Sts.**
 One-story steel frame service station
 Owner—General Petroleum Corp. Parr
 Terminal, Oakland
 Architect—Eng. Dept. of Owner.
**Contractor—Sorensen & Haggmark,
 2652 Harrison St., San Francisco.**
**Plumbing—J. J. McLeod, 1246 Golden
 Electric Work—Atlas Electric Co., 343
 Gate Ave., San Francisco.**
Fourth St., San Francisco.
**Steel—Industrial Steel Products Co.,
 Russ Bldg., San Francisco**

Low Bidder.
SERVICE STATION Cost, \$—
ROSEVILLE, Placer Co., Cal.
 One-story steel frame service station.
 Owner—The Texas Co., Hearst Bldg.,
 San Francisco.
 Architect—Eng. Dept. of Owner
**Contractor—Yoho & Dauger, 2809 H
 St., Sacramento.**

Low Bidder.
SERVICE STATION Cost, \$—
AUBURN, Placer Co., Cal.
 One-story steel frame service station
 Owner—The Texas Co., Hearst Bldg.,
 San Francisco.
 Architect—Eng. Dept. of Owner.
**Contractor—Yoho & Dauger, 2809 H
 St., Sacramento.**

Preparing Preliminary Plans.
SERVICE STATION Cost, \$10,000
SAN FRANCISCO, Ocean Ave. and
 Miramar Street.
 One-story super service station.
 Owner—The Texas Co., Hearst Bldg.
 Plans by Eng. Dept. of Owner.

Preparing Preliminary Plans.
SERVICE STATION Cost, \$10,000
SAN FRANCISCO, Dewey Blvr. and
 La Honda.
 One-story super service station.

Owner—The Texas Co., Hearst Bldg. Plans by Eng. Dept. of Owner.

Preparing Preliminary Plans.
SERVICE STATION Cost, \$10,000
SAN FRANCISCO, Eighth Ave. and
Fulton St.
One-story super service station.
Owner—The Texas Co., Hearst Bldg. Plans by Eng. Dept. of Owner.

GOVERNMENT WORK AND SUPPLIES

SAN FRANCISCO.—Until March 9, 11 A. M., under Circular No. W-6618-31-32. Bids will be received by Constructing Quartermaster, Fort Mason, to furnish and deliver f.o.b. Radio Station, Fort Miley:

- 6,000 shingles, cedar No. 1.
- 2 doors, sash 3x6, 6-ft. 8-in. x 1 1/2-in., redwood, complete with glass and astragal.
- 1 jamb, door, 6-ft. by 6-ft. 8-in., with outside casing and molding for shingles, 2x4-in. wall.
- 4 frames, window, mullion and sash complete, 8-ft. 6-in. x 3-ft. 4 lights to single sash, sash to swing out, single finish on outside, 4-in. wall.
- 6 rolls, paper, roofing, green, slate, surfaced.

Commissioned To Prepare Plans.
POSTOFFICE Cost, \$1,300,000
SACRAMENTO, Sacramento Co., Cal. Class A postoffice and courthouse.
Owner—U. S. Government.
Architect—Starks & Flanders, Forum Bldg., Sacramento.

Announcement of the selection of these architects to proceed with plans for the Sacramento postoffice and courthouse was made yesterday by Secretary Mellon of the U. S. Treasury Department.

Commissioned To Prepare Plans.
POSTOFFICE Cost, \$695,000
STOCKTON, San Joaquin Co., Cal. Class A postoffice.
Owner—U. S. Government.

Architect—Ellis & Fairweather, Balboa Bldg., San Francisco.
Announcement of the selection of these architects to proceed with plans for the Stockton postoffice was made yesterday by Secretary Mellon of the U. S. Treasury Department.

SACRAMENTO, Cal.—Until March 12, 3 P. M., bids will be received by U. S. Engineer Office, California Fruit Bldg., under Order No. 3061, to furnish and deliver miscellaneous castings. Specifications obtainable from above.

CALEXICO, Imperial Co., Cal.—Chamber of commerce has forwarded telegrams to Washington asking that the \$55,000 appropriation made two years ago for the erection of a federal inspection building at the line here be increased to \$155,000 and work started without delay.

WHEELER FIELD, T. H.—Until March 25, under Circular No. 7, bids will be received by Department Quartermaster, Construction Division, Ft. Shafter, T. H., for construction of two 200-men air corps barracks buildings and two 100-men air corps barracks buildings, together with roads and utilities therefor at Fort Wheeler, T. H. Plans obtainable from Department Quartermaster at Fort Shafter on deposit of \$100, returnable.

SAN FRANCISCO.—Until March 21, under Circular No. 3, bids will be received by Signal Officer, Headquarters Ninth Corps Area, Presidio, to dismantle two 150-ft. steel towers. Further information obtainable from above.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver miscellaneous supplies and equipment, as noted in following schedules, further information being available from the Navy Purchasing Officer, 100 Harrison St., San Francisco.

Bids Open March 7
Mare Island, 1,000 lbs. copper-nickel-alloy bar; sch. 5234.
Seattle, 1 motor driven ball bearing hand saw; sch. 5213.

Puget Sound, 1 motor driven tensile testing machine, compression, bending, traverse; sch. 5212.

Mare Island, 8 forged draft blowers and spares; sch. 5195.

Mare Island, 2,200 lbs. bar brass and bronze; sch. 5223.

Puget Sound, 2 motor driven centrifugal pumps, 2 controllers and spares; sch. 5235.

Mare Island, 7,000 lbs. corrugated rubber matting; sch. 5226.

Mare Island, 3,600 ft. wrought iron pipe, welded; sch. 5249.

Mare Island, 288 water-gauge glass-esc. 5231.

Mare Island, 300 dishwashing machine baskets; sch. 5233.

San Diego, 6 engine mounts; sch. 5258.

San Diego, 1 60-ton hydraulic press; sch. 5257.

Bids Open March 24
Mare Island, 19,900 sleeves and 10,320 casings, centrifugally cast; sch. 5239.

SAN FRANCISCO.—Until March 9, 11 A. M., under Circular No. W-6618-31-32, bids will be received by Constructing Quartermaster, Fort Mason, to furnish and deliver f.o.b. Radio Station, Fort Miley, lumber as follows:
60 in. ft. lumber, Redwood, 2x4-in., mudslis, S1E No. 1 Common.

160 in. ft. lumber, O.P., 2x4-in. S4S No. 1 Common plates.

1200 b.m. ft. lumber, O.P. 1x6-in., sheathing, S1E1S, No. 1 Common.

200 b.m. ft. lumber, O.P. 2x3-in. for stakes, S1E, No. 1 Common.

1000 b.m. ft. lumber, O.P., 1 1/4x6-in., T&G sheathing, slash grain, No. 2 Common.

1000 b.m. ft. lumber, O.P., 1x4-in., T&G sheathing, slash grain, No. 2

62 pieces lumber, O.P. 2x4-in. x 10 ft., S1E, No. 1 Common.

12 pieces lumber, O.P. 2x4-in. x 18 ft., S4S, No. 1 Common.

6 pieces lumber, O.P. 2x4-in. x 8 ft., S4S, No. 1 Common.

6 pieces lumber, O.P. 2x4-in. x 10 ft., S4S, No. 1 Common.

6 pieces lumber, O.P. 2x4x12-in., S4S No. 1 Common.

SAN DIEGO, Cal.—Until March 27, 11 A. M., under Specification No. 6382, bids will be received by Public Works Department, Eleventh Naval District, San Diego, for six confinement cells for Building No. 1 at the Naval Operating Base, (Destroyer Base), San Diego. The work consists of manufacturing and installing six steel cells in one block approximately 17 feet long by 14 feet wide by 7 feet high, to be constructed of steel plates, angles, round and flat bars, with a locking device suitable for locking and unlocking cells individually or collectively in groups of three. Plans obtainable from above office on deposit of \$10, checks for same payable to the chief of the Bureau of Yards and Docks.

PRESCOTT, Ariz.—Joseph W. Alexa, senior vice commander of Fort Whipple Barracks, reports that the U. S. Veterans' Bureau will spend approximately \$14,500 for repairs, improvements and alterations at the government hospital here, the money to be available between July 1, 1931, and June 30, 1932. According to the present plans, \$30,000 will be used to meet the expenses of minor repairs, altera-

tions and improvements at the hospital and \$1060 for landscape developments. The remaining \$34,500 will be distributed for the following work: Installing radio outlets in the ward, \$700; overhauling steam lines, \$50; electric refrigeration system, \$14; change in office space and medical warehouse, \$5000; reflooring ward buildings and linenroom, \$25,000; placing piping, \$22,500.

SAN DIEGO, Cal.—Following is partial list of the prospective bids for the storehouse extension, under Specification No. 6407, bids for which will be opened March 13 by the Bureau of Yards and Docks, Navy Department, at Washington, D. C.:

R. J. Chute, 2106 W. Santa Barbara Ave., Los Angeles.

Wm. MacDonald Const. Co., 131 Syndicate Trust Bldg., St. Louis.

W. F. Thurston Co., Box 2059, Richmond, Va.

Newport Contracting & Engineering Co., Lee Hall, Va.

MARE ISLAND, Cal.—Karl Kolt Crockett, Calif., at \$3,950 submitted low bid under Specifications No. 6 to the Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish and install an elevator shaft and lobby at the Navy Y. Hospital, Mare Island, Calif. The shaft and lobby will be built on the exterior of the building, extending from the ground floor to the 7th with the openings at five floors. 7 work involves excavation, concrete work, steel framing, hollow tile, stucco, wood roof framing, the roof electric work and heating. A complete tabulation of bids received will be published shortly.

MARE ISLAND, Cal.—Otis Elevator Co., 1 Beach St., San Francisco, \$6,236 submitted low bid under Specification No. 5311, to the Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish and install one automatic electric passenger elevator complete at the Navy Y. Hospital, Mare Island. A complete tabulation of bids will be published shortly.

HOQUIAM, Wash.—Following has secured plans at Washington, D. C., for proposed postoffice to be erected at Hoquiam, bids for which will be opened by the Supervising Architect, Treasury Dept., Washington, D. C., on April 1:

Pacific States Const. Co., Alameda Bldg., Seattle, Wash.

Harry Boyer & Son Co., Washington Bldg., Tacoma, Wash.

Earl E. Garber & Co., Bethlehem, Pa.

Plans Being Figured—Bids Close March 18, 11 A. M.

EL PASO, TEXAS.—Under Order No. 1, SAN FRANCISCO, Letterman General Hospital (kitchen No. 9).

Install electric freight elevator.

Owner—U. S. Government.

Architect—Constructing Quartermaster, Fort Mason.

HAWTHORNE, Nevada—See "Reservoirs and Dams," this issue. Bids wanted by Bureau of Yards and Docks, Navy Department, to construct Cat Creek Dam at Hawthorne Naval Ammunition Depot.

SAN DIEGO, Cal.—Until 11 A. M. March 20, bids will be received by Eleventh Naval District, foot of Broadway, San Diego, for extension of barracks buildings at the Naval Operating Base. Work consists of two-story building extensions to existing Barracks Nos. 10 and 11. Each extension will be approximately 33 by 53 feet. Work includes plan and reinforced concrete; brick work built-up roofing; sheet metal work

plaster; stucco; steel beam floor and roof girders; wood sash, doors, screens and finish; steel partitions for water closets; hardware; glazing; painting; plumbing; heating; water, gas and sewer piping; and electrical work. Bidding data may be obtained from the Commandant, Eleventh Naval District, San Diego, upon deposit of check or postal money order for \$10 cents; hardware to the Chief of Bureau of Yards and Docks, Capt. DeWitt C. Webb, public works officer.

PEARL HARBOR, T. H.—A mes - Wills, Ltd., Honolulu, at \$203,430 awarded contract by Bureau of Yards and Docks, Navy Department, Washington, D. C. to erect seaplane hangar at Pearl Harbor.

PEARL HARBOR, T. H.—Bureau of Yards and Docks, Navy Dept., Washington, D. C. will call for bids soon for the construction of engine and aircraft overhaul shop at Pearl Harbor; estimated cost \$220,000. Specification No. 6376.

MARCH FIELD, Cal.—Until 10 A. M., March 24, bids will be received by Col. W. C. Gardenhire, constructing quartermaster, March Field, for the construction of 36 sets of non-commissioned officers' quarters at March Field.

MARCH FIELD, Cal.—Until 11 A. M., March 24, bids will be received by Col. W. C. Gardenhire, March Field, for the construction of quartermaster's warehouse and officers' utility warehouse and shops, guard house, fire house, post exchange and garage at March Field.

MARCH FIELD, Cal.—Until 11 A. M., March 24, bids will be received by Col. W. C. Gardenhire, constructing quartermaster, March Field, for the construction of two sets of field officers' quarters and eight sets of company officers' quarters (duplicates of quarters for which bids are being opened on March 10) at March Field.

SAN DIEGO, Cal.—Bureau of Yards and Docks, Navy Department, Washington, D. C., will call for bids soon for the erection of four barracks at the Naval Operating Base, San Diego. Spec. No. 6370. They will be reinforced concrete and hollow tile structures and will cost approx. \$400,000.

SAN DIEGO, Cal.—Until 11 A. M., March 19, bids will be received by the 11th Naval District, San Diego, for improving gasoline storage facilities at the North Island Naval Air Station, San Diego. The work includes piping, valves, meters, motor-driven pump, pump house, fire protection equipment, earth fire banks, steel framed walkway, concrete pavement, electric light and power systems and grounding systems. Spec. No. 6426. Bidding data may be obtained from the Commandant, Headquarters, 11th Naval District, San Diego, upon deposit of \$10 payable to the Chief of the Bureau of Yards and Docks.

Completing Plans.
ELEVATOR Cost, \$—
SAN FRANCISCO, Letterman General Hospital (Gitchen No. 9).
Install electric freight elevator.
Owner—U. S. Government.
Architect—Constructing Quartermaster Fort Mason, San Francisco.
Bids will be called for about March 2.

Plans Being Figured — Bids Close
March 16, 11 A. M.
INSTALL ORGAN Cost, \$—
SAN FRANCISCO Presidio Chapel, install organ.

Owner—United States Government.
Architect—Constructing Quartermaster Fort Mason, San Francisco.

Eids Opened.
ALTERATIONS Cost, \$—
SAN FRANCISCO, Letterman Hospital.
Alterations to Wards D-1 and E-1 (addition of five private rooms in each ward).
Owner—United States Government.
Architect—Construction Quartermaster, Fort Mason.

Work comprises: Nurses' call system, plumbing and radic installation; linoleum floors, repair to wood-work, etc.

General Work

Gauley & Yaunt, 299 22nd Ave.....	\$4,195
Frank J. Reilly	4,683
F. C. Amoroso	4,700
Clancy Bros.	4,800
Vogt & Davidson	4,915
John Bjorkman	4,947
J. Harold Johnson	4,997
W. M. Martin	5,442
P. F. Speidel	5,500
T. F. L. Goodwin	5,739
Jack Nelson	5,500

Electrical Work

Johnson Electric Co., 758 Monterey Blvd.	\$ 970
Minkel & Lucas	1,005
H. S. Tuttle	1,145
J. Harold Johnson	1,200
G. H. Armstrong	1,210
Severin Electric Co.	1,358
F. D. Wilson Co.	1,522

Linoleum

Conklin Bros., Inc., 2400 Geary Street	\$1,485
D. N. & E. Walter	1,495
J. E. Higgins Lbr. Co.	1,636
J. J. Millard	1,799
Thos. R. Smith	1,873

Plumbing

Frank Davison, 65 Chesley St.	\$ 796
Wm. Ward	869
F. C. Amoroso	935
O'Mara & Stewart	975
J. J. Millard	1078
Henry Ernst & Son	1118
Burnham Plumbing Co.	1169
Jack Nelson	1250
Frank J. Reilly	1379
Thos. R. Smith	1549

Bids held under advisement.

SAN DIEGO, Cal.—Eleventh Naval District, San Diego, directs the attention of contractors bidding on the construction of Naval Training Station barracks under specification No. 6419, bids for which are to be opened on March 5th, to addendum No. 2 covering: (a) Section 24, alternative A. Add to paragraph 24-01 as amended by addendum No. 1 "Wall tile units not less than 12 inches long and 5 inches high will be accepted."

SAN FRANCISCO.—H. F. Haverkamp, 1175 Market St., at \$110 awarded contract by District Public Works Officer, 12th Naval District, to install bell ringing transformers, bell push button and buzzers at District Staff Headquarters, 5th floor, 100 Harrison Street.

SAN DIEGO, Cal.—Chicago Bridge & Iron Works, 414 Subway Terminal Bldg., Los Angeles, awarded contract by Public Works Officer, 11th Naval District, San Diego, at \$9405 for gasoline tanks at the Naval Operating Base (Air Station), San Diego. Specifications No. 6425. The work includes two steel tanks, each of approximately 100,000 gallons capacity, for the storage of aviation gasoline. The tanks shall have sand foundations, steel roofs with louvers, steel stairs and floating decks. The other bids were: Consolidated Steel Corp., \$10,430; Western Pipe & Steel Co., \$10,200; Kirk Morrison Iron Co., \$12,544; California Products Co., \$12,996.

Prospective Bidders.
SAN FRANCISCO, Presidio.
OFFICERS' QUARTERS Cost, \$90,000
Fifteen double sets of non-commissioned officers' quarters (each 2-story and basement, brick construction).
Owner—U. S. Government
Plans by Quartermaster General Office, Washington, D. C.

Following contractors and contracting firms have secured plans:
White & Gloor, 448 Monadnock Bldg.
Elmer C. Petersen, 1290 Hayes St.
Jack & Irvine, 74 New Montgomery
Barrett & Hill, 918 Harrison St.
Frank Davidson, 65 Chesley St.
George Rehn, 215 Mission St.
Mahony Bros., 866 Flood Bldg.
S. Rasori, Call Bldg.
Einar Peterson, 666 Mission St.
C. C. W. and H. H. Haun, 666 Mission St.

Larsen & Larsen, 1027 Russ Bldg.
O'Mara & Stewart, 215 Call St.
Vogt & Davidson, Call Bldg.
J. J. McLeod, 1246 Golden Gate Ave.
Minkel & Lucas, 1535 Folsom St.
William Wara, 1029 Larkin St.
The Turner Co., 329 Tehama St.
Thomas Skelly, 1242 9th Ave.
Thos. R. Smith, 1837 Folsom Ave.
H. L. Peterson, 731 Treat Ave.
G. H. Armstrong, 2890 Howard St.
Mangrum & Holbrook, 1235 Mission
The Fess System Co., 220 Natoma St.
N. H. Sjoberg & Son, Call Bldg.
C. Peterson Co., 390 6th St.

Smith Electric, 972 Howard St.
K. E. Parker Co., 135 South Park.
Henry Ernst, 551 Hayes St.
F. L. Hansen, 282 7th St.
Severin Electric Co., 172 Clara St.
The Scott Co., 243 Mission St.
O. M. Sommer, 901 Bryant St.
Chas. A. Langlais, 372 Tehama St.
Atlas Electric & Eng. Corp., 343 Fourth St.
Monson Bros., 475 6th St.
A. G. Atwood, 3223 18th St.
Crane Co., 301 Brannan St.
Johnson Elec. Co., 755 Monterey Blvd.
Actna Electric, 1172 Webster St.
MacDonald & Kahn, Financial Center Bldg.
Frank J. Reilly, 666 Mission St.
F. S. Hannah, 268 Market St.
James H. Pinkerton, 927 Howard St.
M. J. King, 2342 Bay St.
Globe Elec. Works, 1899 Mission St.
Fred D. Wilson Co., 1448 3th St.
J. Harold Johnson, Hearst Bldg.
William Spivock, Hobart Bldg.
F. C. Amoroso & Sons, Wallace and Keith Sts.
William Martin, 666 Mission St.
T. B. Goodwin, 2950 Divisadero St.
Atlas Heating & Ventilating Co., 557 Fourth St.
H. S. Tuttle Co., 85 Columbia Sq.
Ira W. Couron, 2048 Market St.
Higgins & Kraus, 741 Tehama St.
Mechanical Contracting Co., 81 Shipley St.
T. L. Sherman & Son, 1514 Irving
A. Ramazzotti, 1973 Vallejo St.
Bids are to be opened March 25, 11 A. M.

Preliminary Studies Being Made.
BUILDINGS Cost approx. \$800,000
ALAMEDA, Alameda Co., Cal.
Group of buildings, etc.
Owner—U. S. Government.
Architect—Superior Architect, Washington, D. C.

Preliminary studies are now being made by Base Commandant, Alameda (And. 0303). Work involves group of buildings, comprising shops, warehouse, canteen and barracks bldgs., central administration building and storage building, grading, sewer pipes, electric lighting system, pipe lines, etc.

SACRAMENTO, Cal.—Until March 10, 3 P. M., under Order No. 3067, bids will be received by U. S. Engineer Office, California Fruit Bldg., for use

of launch. Bids are wanted on the following propositions: (a) 90 days operated by the contractor; (b) 30 hours operated by contractor on hourly base, and (c) alternative bid when operated by the Government for period of 90 days. Further information obtainable from above.

HALLS AND SOCIETY BUILDINGS

FRESNO, Cal.—Fresno Council No. 340, Knights of Columbus, contemplates erecting a lodge building at Fresno and E. Sts. to cost \$20,000. Fred Hengchold is chairman of the building committee.

Preliminary Studies Being Made
PLAYGROUND Cost, \$—
SAN FRANCISCO, Bay and Larkin Streets

Playground and clubhouse.
Owner—City and County of San Francisco (Playground Commission).
Architect—Eng. Dept. of Owner, City Hall, San Francisco.

Contract Awarded.
MEMORIAL BLDG. Cost, Price, \$32,950
CORNING, Tehama Co., Cal. Solano St. and Houghton Ave.

One-story brick Memorial Building.
Owner—County of Tehama.
Architect—Starks & Flanders, Forum Bldg., Sacramento.
Contractor—Azevedo & Sarmiento, 920 O St., Sacramento.

Following is a complete list of bids received:
Azevedo & Sarmiento, Sacto.....\$32,950
Chas Unger, Sacramento..... 34,980
Fred Betz, Sacramento..... 35,460
George Kopp, Sacramento..... 36,364
Harry Porter, Sacramento..... 36,781
R. B. McKenzie, Gerber..... 36,800
J. F. Brennan, Redding..... 37,500
F. H. Nielsen, Sacramento..... 37,514
Lindgren & Swinerton, Sacto..... 39,700

Contract Awarded.
MEMORIAL BLDG. Cost, \$65,000
HAYWARD, Alameda Co., Cal. (Kolze property) Main St.

One-story reinforced concrete (Veterans' Memorial Building (Spanish type)).
Owner—County of Alameda.
Architect—H. H. Meyers, Kohl Bldg., San Francisco.
Contractor—A. F. Hanson, 440 Sunset Blvd., Hayward.

Following is a complete list of bids:
A. F. Hanson, Hayward.....\$65,597
J. E. Branagh, Oakland..... 68,000
E. T. Letter & Son, Oakland..... 68,867
E. T. Lesure, Oakland..... 71,802
N. W. Place, Oakland..... 71,910
F. J. Westlund, Oakland..... 72,400
N. H. Soborg, San Francisco..... 72,446
The Minton Co., Mt. View..... 73,552
A. F. Anderson, Oakland..... 74,297
George Maurer, Oakland..... 77,523
C. A. Bruce & Son, Pleasanton 78,500

HOSPITALS

Plans Being Figured—Bids Close March 16, H. A. M.

EQUIPMENT Cost, \$—
STOCKTON, San Joaquin Co., Calif. Near French Camp.
Sterilizers, Still Warming Cabinet, Hot Plate Equipment, etc., for first unit of General Hospital.
Owner—County of San Joaquin, E. D. Graham, county clerk.
Architect—Frederick H. Meyer, 525 Market St., San Francisco, and Davis-Pearce Company, Associates, Builders' Bldg., Stockton.

Certified check or Surety Bond 10% payable to Chairman of the Board of Supervisors required with bid. Spec. obtainable from the architects on deposit of \$25, returnable.

Contracts Awarded.
HOSPITAL Cost, \$—
SPADRA, Los Angeles Co., Cal. State Hospital Grounds.
Hospital Administration Building and Girls' Industrial Building.
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.

General Work
L. Geisler, 6212 Middlecreek St., Huntington Park.....\$76,574
Electric Work
Baty Electric Co., Long Beach \$4100
Plumbing, Heating and Ventilating Coopers & Winterbottom, Los Angeles.....\$15,495

The hospital building is two-story reinforced concrete walls and floors, tile partitions and tile roof on wood construction. Total floor area is approximately 15,000 sq. ft. The Administration Building is one-story reinforced concrete walls and floor, tile partitions and tile roof on wood construction. Total floor area is approx. 5300 sq. ft. The Girls' Industrial Building is a one-story addition with reinforced concrete walls, wood floor, partitions and roof construction and tile roof. Total floor area is approx. 2290 sq. ft. Bids held under advisement.

Contracts Awarded
COTTAGE Cost, \$25,000
STOCKTON, San Joaquin Co., Cal. State Hospital Grounds.
Two-story reinforced concrete cottage for employees (floor area 6700 sq. ft.).
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Building, Sacramento.

General Work
Samuel Eyre, Tracy.....\$19,339
Electrical Work
Hild Elec. & Mfg. Co., 125 W. Main St., Stockton.....\$1221
Plumbing and Heating
Jos C. Black, 721 W. Elm St., Stockton.....\$6600

Completing Plans.
ADDITION \$115,000 Appropriated
SAN FRANCISCO, Letterman General Hospital.
Three-story reinforced concrete addition to Ward No. 11 and two-story reinforced concrete ward building (No. 10).
Owner—U. S. Government.
Architect—Constructing Quartermaster Fort Mason, San Francisco.

Rubber floors, terrazzo floors, tile wainscoting, radio system, electric fixtures, nurses' call system; all modern hardware, sterilization system, electric passenger elevator, modern hospital plumbing and considerable marble work.

PALO ALTO, Santa Clara Co., Cal.—Stanford University, Palo Alto, will purchase equipment including X-ray, surgery and laundry apparatus for the new Palo Alto Hospital. Estimated cost, \$42,500.

By the arrangement the university will purchase the equipment with its own money, and the city—if the lease is approved—will lease the equipment by the year, with an option to renew the agreement until the debt is finally discharged. Annual payments would be included in the hospital budget.

LOS ANGELES, Cal.—Architect Edwin Bergstrom, Citizens' National Bank Bldg., Los Angeles, has recommended to the Los Angeles county supervisors that contracts for the high pressure refrigeration and the low pressure refrigeration for the new Acute Unit of the General Hospital

be awarded by the board as follows:
High Pressure Refrigeration—G. J. Engineering Co., 2650 Santa Fe Ave. \$45,274, the price being based upon the bid of \$54,280, but omitting cold water cooling and circulating system which makes a deduction of \$8974.

Low Pressure Refrigeration—Parke Ice Machine Co., 2600 Santa Fe Ave. Vernon, at \$75,524, based on the bid of \$71,150, but using Ward individual refrigerating units, which adds \$3944.
These recommendations were submitted to board of supervisors Feb 24 but upon motion of Supervisor Quina action was postponed until Feb. 27 in order that the architect might be present.

LOS ANGELES, Cal.—P. Grassi & Co., 1045 San Bruno Ave., San Francisco, at \$48,710 awarded contract by Los Angeles County Supervisors for travertine work for the new Acute Unit of the Los Angeles General Hospital.

FRESNO, Fresno Co., Cal.—Centra California Ice Co., Fresno, at \$2,81 awarded contract by county supervisors for remodeling the present Yori Refrigeration system and the installation of brine refrigerated refrigerators in the County General Hospital. Complete list of bids received published in issue of March 2.

Bids Opened.
QUARTERS Cost, \$—
SPADRA, Los Angeles Co., Cal. Pacific Colony Grounds.
Two-story employees' quarters and 1 story concrete garage.
Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, State Office Bldg., Sacramento.

The Employees' Quarters building is two stories with concrete walls and wood frame interior construction and tile roof. The total floor area is approximately 8600 square feet.

The Garage is a building of 30 single car compartments with concrete wall and floor and brick composition roof. The area is approximately 6000 sq. ft.

Following are three lowest bidder on all portions of the work:

General Work
L. A. Geisler, Long Beach.....\$20,95
W. Rahlbacher, Los Angeles, 33,860
Wilson Beaver Co., Anaheim..... 33,440
Electric Work
R. R. Jones Elec. Co., L. A.....\$1,35
W. H. Smith, Long Beach..... 1,43
Safeway Electric Co., L. A..... 1,48
Plumbing and Heating
Thomas Hoverty, Los Angeles.....\$5,99
S. B. Jones, Los Angeles..... 6,32
Hickman Bros., Los Angeles..... 6,45
Bids held under advisement.

Plans Completed.
CUSTODIAL BLDG. Cost, \$—
SANTA BARBARA, Santa Barbara Co., Cal. County General Hospital.
Custodial building (accommodation for 62 patients).
Owner—County of Santa Barbara.
Architect—Ewards & Plunkett, 29 E. Figueroa St., Santa Barbara.

Ornamental and Miscellaneous Iron Contract Awarded.
SERVICE BLDG. Cont. Price, \$97,280
SAN JOSE, Santa Clara Co., Cal. Two-story reinforced concrete service building.
Owner—County of Santa Clara.
Architect—Blinder & Curtis, 35 W. San Carlos St., San Jose
Contractor—J. D. Carlsen, 1231 Sierra St., San Jose.
Ornamental and Miscellaneous Iron—San Jose Iron Works, 535 W. San Carlos St., San Jose.

Preparing Plans.
CLINIC Cost, \$—
SAN LUIS OBISPO, Cal.
 One-story brick clinic.
 Owner—Group of doctors (names withheld).
Architect—Louis N. Crawford, Gibson
 O'Connell Bldg., Santa Maria.
 Bids will be taken within one week

HOTELS

LAS VEGAS, Nevada.—John Miller, owner of the Nevada hotel, is having plans drawn for an addition to that structure. It will provide 60 additional rooms.

Preparing Preliminary Sketches.
HOTEL Cost, \$—
SANTA BARBARA, Santa Barbara Co., Cal.
 Four-story fireproof hotel.
 Owner—Arlington Holding Co.
Architect—Edward & Plunkett, 20 E. Figueroa St., Santa Barbara.

Preparing Plans.
ROOMING HOUSE Cost, \$—
SAN LUIS OBISPO, Cal.
 Two-story brick rooming house.
 Owner—Withheld.
Architect—Louis N. Crawford, Gibson
 O'Connell Bldg., Santa Maria.
 Bids will be taken in about one week.

ICE AND COLD STORAGE PLANTS

Plans Being Figured—Bids Close Mar. 19, 2 P. M.
EXTENSION Cost approx. \$30,000
SAN FRANCISCO. Channel between No. 46 and 3rd St. bridge.
 Extension to cold storage plant (refrigeration plant and install machinery and equipment).
 Owner—State Board of Harbor Commissioners.
Engineer—Frank White, Ferry Bldg.

FRESNO, Fresno Co., Cal.—Central California Ice Co., Fresno, at \$2,310
 submitted lowest bid to county clerk or remodeling the present York Refrigerating system and the installation of brine refrigerated refrigerators in the County General Hospital.
 Following is a complete list of bids:
 Central Calif. Ice Co., Fresno.....\$2310
 Levin-Drew Co., Fresno..... 2975
 Yelops Iron Works, Fresno..... 3000
 Pacific Ice Machine Co., S. F..... 3168
 Awards Ice Machine & Supply Co., Oakland..... 3474
 Bids held under advisement until March 3, 10 A. M.

POWER PLANTS

SAN FRANCISCO—Until March 9, P. M., under Proposal No. 696, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish automatic starting compensators for Department of Public Works. Specifications obtainable from above.

GRIDLEY, Butte Co., Cal.—Until March 23, bids will be received by J. Lewis, city clerk, to furnish and deliver one carload of power poles for municipal lighting plant. Specifications obtainable from clerk.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Commissioned To Prepare Plans.
RMORY Cost, \$35,000
ALINAS, Monterey Co., Calif.
 rmory.
 Owner—State of California.
Architect—Guy Koepp, McDougall Bldg., Salinas.

SAN FRANCISCO.—Following is a complete list of the bids received by Trustees of the War Memorial of San Francisco, 451 Montgomery St., for furnishing of structural steel and the erection of structural steel in connection with the San Francisco War Memorial Buildings. Contract involves approximately from 5000 to 6000 tons.
 Arthur Brown Jr., and G. Albert Lansburgh, architects.

(a) Opera House, deliver f.o.b. San Francisco.
 (b) War Memorial, deliver f.o.b. San Francisco.
 (c) Opera House, fabricated and erected.
 (d) War Memorial, fabricated and erected.

(sub-a) erecting only.
 (sub-b) erecting only.
 (sub-c) deduct.
 (sub-d) deduct.

Columbia Steel Co., Russ Idg., (a) \$64; (b) \$59; (c) \$91; (d) \$75.
 Moline Minneapolis Power & Improvement Co., (a) \$71.40; (b) \$60.90; (c) \$92.40; (d) \$82.80; (sub-c) 50c; (sub-d) 50c.

Herrick Iron Works, Oakland (sub-a) \$17.72; (sub-b) \$14.34; (a) \$76.80; (b) \$62.28; (c) \$94.84; (d) \$82.42.
 McClintic Marshall Co., (a) \$102.70; (d) \$81.50.
 Judson-Pacific Co., (a) \$95.50; (d) \$33.35.
 Dyer Bros. Iron Works (c) \$102.25; (d) \$33.80.
 Moore Drydock Co., (a) \$99.25; (d) \$83.70; (sub-c) 50c; (sub-d) 50c.
 J. Gerrick & Co., (sub-a) \$28.75; (sub-b) \$20.50.

VAN NUYS, Los Angeles Co., Cal.
 —Chas. H. Randall, Los Angeles city councilman, announces that funds will be available next month for the preparation of plans for the new Los Angeles branch city hall to be erected on Sylvan St., Van Nuys. Cost of the proposed structure is estimated at \$275,000. Plans will be drawn by the Los Angeles City Construction Department, Chas. O. Brittain, superintendent. No appropriation has been made for the actual construction of the building.

FRESNO, Fresno Co., Cal.—County supervisors reject bids for painting county courthouse and new bids will be asked. A complete tabulation of the bids received was published in the issue of March 2, B. L. Zumkeller of Fresno, being low at (a) \$3,747; and (b) \$2,457.

SAN DIEGO, Cal.—See "Government Work and Supplies," this issue. Bids wanted for six confinement cells for Building No. 1 at the Naval Operating Base, San Diego.

Plans To Be Prepared.
FIREHOUSE Cost, \$—
STOCKTON, San Joaquin Co., Calif.
 Hunter Street.
 Reconstruction of firehouse.
 Owner—City of Stockton.
Architect—To Be Selected.

City Manager Walter B. Hogan has recommended to the city council that an architect be commissioned to prepare plans for this work involving interior and exterior reconstruction. Funds for the work are available from the bond issue of 1924.

Construction Recommended.
JAIL Cost, \$—
MODESTO, Stanislaus Co., Cal.
 City jail building.
 Owner—City of Modesto.
Architect—To Be Selected.

The 1920 County Grand Jury in its annual report to the county commissioners recommends that county and Modesto city prisoners, now housed in one building, be separated and that the city "be required" to provide her own jail facilities.

Plans To Be Prepared.
HALL OF RECORDS Cost, \$75,000
MONTREY, Monterey Co., Cal.
 Municipal "Hall of Records" (Mission type of architecture).
 Owner—City of Monterey (Gift of the late Mrs. Anatha M. Few, pioneer Monterey resident).
Architect—Not Yet Selected.

The will of Mrs. Few was filed for probate on March 3. W. G. Hudson and T. A. Work were named as trustees of the estate in codicils to the will, substituting for Fred A. Treat and M. M. Gragg, both of whom were originally named as trustees, but are now deceased.

Plans Being Figured—Bids Close Mar. 23rd, 1:30 P. M.
ADDITION Cost, \$55,000
MADERA, Madera Co., Cal.
 Class C brick addition to high school.
Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.

Bids will be opened in the cafeteria building at the high school at Madera. Plans provide for modernizing the clock and electric lighting system in the old structure and the remodeling of some of the classrooms in the top floor into a study hall.

Prospective Bidders.
JAIL Cost, \$110,000
SALINAS, Monterey Co., Cal.
 Two-story reinforced concrete jail.
 Owner—County of Monterey.
Architect—Reed and Corlett, Oakland Bank of Savings Bldg., Oakland.

Following contractors have secured plans up to date:
 R. W. Littlefield, 337 17th St., Oakland.
 H. H. Larsen, 64 South Park, San Francisco.
 Jas. L. McLaughlin, 251 Kearny St., San Francisco.
 F. C. Stolle, 3449 Laguna St., Oakland.
 Carl N. Swensen, San Jose.
 George Auer, 50 York Drive, Oakland.
 Wm. C. Keating, 4209 Mountain Blvd., Oakland.
 K. E. Parker, 135 South Park, San Francisco.
 MacDonald & Kahn, Financial Center Bldg., San Francisco.
 Barrett & Hilp, 918 Harrison St., San Francisco.

Bids are wanted for:
 (1) Complete building, less jail equipment, but including plumbing, heating and ventilating and electrical work.
 (2) Complete building, less jail equipment, plumbing, heating and ventilating and electrical work.
 (3) Combined proposal on plumbing, heating and ventilating.
 (4) Proposal for electric work.

Separate bids will be received for the jail equipment.
 Plans obtainable from Reed & Corlett, architects, 1501 Oakland Bank Bldg., Oakland, and from the County Surveyor at Salinas on deposit of \$20, returnable.

Plans provide for a cell block accommodating 48 prisoners, eight prisoners to be housed in each cell. Additional cell blocks will have accommodations for 20 vagrants and eight trustees. Two cells will be devoted to insane prisoners, one of these being padded. Accommodations will also be provided for eight boy prisoners.
 Bids are to be opened March 19th, 10 A. M.

SAN JOSE, Santa Clara Co., Cal.—H. C. Miller, Santa Clara, at \$698 awarded contract by Public Works Officer, 12th Naval District, San Francisco, to install temporary partitions, mezzanine floors, electrical work and heating at the U. S. Naval Reserve Armory, Post and Market Sts., San Jose.

Contract Awarded.
LIBRARY Cont. price, \$5331
OLDDALE, Kern Co., Cal.
 One-story brick branch library, 60x
 27-ft.; tile roof.
 Owner—County of Kern, F. E. Smith,
 county clerk.
 Architect—Edwin J. Symmes, Haber-
 felde Bldg., Bakersfield.
 Contractor—Opperman & Hullett, 1327
 Orange Drive, Bakersfield.
 Spanish type of architecture, brick
 construction, plaster exterior, tile
 roofing, wood and cement floors, etc.

FRESNO, Fresno Co., Cal.—Following
 is a complete list of the bids re-
 ceived by county clerk for painting
 the Fresno County Courthouse.

- (a) job complete; (b) labor only
- | | |
|----------------------------------|--------|
| B. L. Zumkeller, Fresno.....(a) | \$3747 |
|(b) | 2487 |
| O. R. Osterode, Fresno.....(a) | 4190 |
|(b) | 4460 |
|Alt. | 3090 |
|Alt. | 3280 |
| Schutz Paint Co., Fresno.....(a) | 4993 |
|(b) | 5195 |
| W. W. Spencer, Fresno.....(a) | 5665 |
| Mobert & Ross, Fresno.....(a) | 4600 |
| M. W. Hancock, Fresno.....(a) | 5980 |
|(b) | 5600 |
| H. C. Brown, Fresno.....(a) | 6455 |
- Bids held under advisement until
 March 3, 10 A. M.

SACRAMENTO, Cal.—Following bids
 received by county clerk to furnish
 and install furniture and equipment
 in office of county clerk.

- (a) Unit A; (b) Unit A and B; (c)
 Unit C.
- | | |
|--|-------------------------------|
| Rucker-Fuller Co., (a) & B2; 24; (c) | \$524.75; (c) \$596.90. |
| Berger Mfg. Co. (a) & B75; 84; (b) | \$775.54; (c) \$448.33. |
| C. J. Hilliard Co., Inc., (a) & B30; | (b) \$819; (c) \$495. |
| M. G. West Co. (a) & B715; (b) & B950; | (c) \$555. |
| Remington-Rand Co., (a) & B36; 77; | (b) \$1,178.88; (c) \$719.77. |
| H. S. Crocker Co., (a) & B718; (b) | \$945.64; (c) \$499.75. |
- All of San Francisco.
 Bids held under advisement.

RESIDENCES

Plans Being Revised.
RESIDENCE Cont. Price, \$15,200
SACRAMENTO, Sacramento Co., Cal.
 Two-story and basement frame and
 stucco residence (10 rooms and 3
 baths).
 Owner—J. L. Mayden, Sacramento.
 Architect—Starks & Flanders, Forum
 Bldg., Sacramento.
 All bids previously taken were re-
 jected. New Bids will be called for
 shortly.

Contract Awarded.
RESIDENCE Cost, \$20,000
STOCKTON, San Joaquin Co., Calif.
 Oxford Manor.
 Two-story and basement brick veneer
 residence (8 rooms, two baths; tile
 roof).
 Owner—Peter Maringo, 45 W. Maple
 St., Stockton.
 Architect—Jos. Losekann, 1218 West
 Harding St., Stockton.
 Contractor—Frank Guyon, 1211 East
 Main St., Stockton.

Plans Being Completed.
BUNGALOW COURT Approx. \$45,000
SAN CARLOS, San Mateo Co., Cal.
 One-story frame and stucco bungalow
 court.
 Owner—Withheld.
 Architect—Ernest Norberg, 550 Mar-
 ket St., San Francisco.
 Bids will be taken in two weeks.

Plans Being Prepared.
RESIDENCE Cost, \$30,000
SAN FRANCISCO, Suto Park Ave.
 One and one-half-story frame and
 stucco residence (7 rooms and 2
 baths).

Owner and Builder—George Elkington
 Jr 1291 33rd Ave., San Francisco.
 Architect—Chas. Strothoff, 2274 15th
 St., San Francisco.
 Tile roof, gas heating system,
 colored tile baths and kitchen.
 Sub-oids will be taken in one week.

Sub-Bids Being Taken.
RESIDENCE Cost, \$4000
OAKLAND, Alameda Co., Calif. 80th
 Ave. near Foothill Blvd.
 One and one-half-story frame and
 stucco residence (6 rooms).
 Owner—C. F. Lodge, 749 Collier St.,
 Oakland.
 Plans by Ralph Wood, 1197 Foothill
 Blvd., San Leandro.

Owner Taking Bids From Selected
 List of Contractors
RESIDENCE Cost approx. \$20,000
OAKLAND, Alameda Co., Cal. Saint
 James Wood.
 Two-story and basement frame and
 stucco residence (9 rooms, 3 baths)
 Owner—Spencer Fish, 1736 Franklin
 St., Oakland.
 Architect—Ray Keefer, 3 2 8 1 Lake-
 shore Ave., Oakland.

Construction Started.
RESIDENCE Cost, \$15,000
CARMEL, Monterey Co., Cal. Carmel
 Highlands.
 Two-story and basement frame and
 stucco residence (studio house; 3
 bedrooms, 4 baths).
 Owner—Mr. Dougherty.
 Architect—Guy Koepp, McDougall
 Bldg., Salinas and Carmel.
 Contractor—Dowsett Ruhl, Pebble
 Beach.

Plans Being Prepared.
RESIDENCE Cost approx. \$25,000
CARMEL, Monterey Co., Cal. Carmel
 Highlands.
 Two-story and basement frame and
 stucco residence (12 rooms).
 Owner—Withheld.
 Architect—Guy Koepp, McDougall
 Bldg., Salinas and Carmel.

Construction Started.
RESIDENCE Cost, \$19,000
CARMEL, Monterey Co., Calif.
 Two-story and basement concrete resi-
 dence (10 rooms, 4 baths).
 Architect—Guy Koepp, McDougall
 Bldg., Salinas and Carmel.
 Owner—Lucy L. Peabody, Carmel.
 Contractor—A. C. Stoney, Carmel.

Plans Being Prepared.
RESIDENCES Cost each, \$5000
MILLBRAE HIGHLANDS, San Ma-
 teo Co., Cal.
 Four 1-story and basement frame and
 stucco residences (5 rooms each).

Owner and Builder—Castle Bldg. Co.,
 830 Market St., San Francisco.
 Architect—Not Given.
 Sub-bids will be taken in one week.
 Tile and composition roofing, gas heat-
 ing system.

Contract Awarded.
RESIDENCE Cost, \$10,000
FALTO ALTO, Santa Clara Co., Cal.
 Two-story and basement frame and
 stucco residence (7 rooms and 3
 baths).
 Owner—I. F. Plymat, 1202 Byron, Patk
 Alto.
 Architect—Guy O. Koepp, McDougall
 Bldg., Salinas, and Carmel.
 Contractor—E. Aldrich, Palo Alto.

RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. 1754
 Arch Street.
 Three-story frame and stucco resi-
 dence (7 rooms).
 Owner—Julian Bried, 5840 Chabot Rd.
 Contract Awarded.
RESIDENCE Cost, \$10,000
OAKLAND.
 Architect—Raymond de Sanno, 2581
 Milvia St., Berkeley.
 Contractor—G. V. Harris, 5912 Ayala
 St., Oakland.

Preparing Preliminary Sketches.
RESIDENCE Cost, \$300,000
SANTA BARBARA, Santa Barbara
 Co., Cal. El Mirador.
 Large residence.
 Owner — J. J. Mitchell, Cold Springs
 and Mountains Drive, Montecito.
 Architect—Edwards & Plunkett, 20 E.
 Figueroa St., Santa Barbara.

SANTA BARBARA, Cal.—Paul
 Building Company will erect a two-
 story, frame and stucco residence a
 1704 Grand Ave., Hawley Heights, for
 Beulah H. Swearingin; cost, \$10,000.

Sub-Bids Being Taken.
RESIDENCE Cont. Price, \$47,550
SAN FRANCISCO, Broadway near
 Baker Street.
 Two and one-half-story and basemen
 frame and brick veneer residence
 with slate roof.
 Owner—Dr. A. Lincoln Brown, Medi-
 cal-Dental Bldg., San Francisco.
 Architect—Bakewell & Weihe, 25
 Kearny St., San Francisco.
 Contractor—Young & Horstmeier, 46
 Market St., San Francisco.

To Take Bids In Two Weeks.
RESIDENCE Cost, \$10,000
SAN FRANCISCO, Marina District.
 Two-story and basement frame and
 stucco residence.
 Owner—F. Rathjens, 1327 Pacific Ave
 Architect—Henry C. Smith and A. R
 Williams, Humboldt Bank Bldg.

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March 3, 1931

Preparing Plans.
RESIDENCE Cost, \$—
AN LUIS OBISPO, Cal.
wo-story and basement frame and
stucco residence (9 rooms; tile
roof).
owner—Harry Laird.
architect—Louis N. Crawford, Gibson
Drexel Bldg., Santa Maria.
Bids will be taken in about one
week.

Contract Awarded.
RESIDENCE Cost, \$30,000
ATSONVILLE, Santa Cruz Co., Cal.
wo-story and basement frame, stucco
and brick residence (11 rooms and
3 baths).
owner—J. E. Porter, Watsonville.
architect—A. W. Story, Pajaro Valley
Bank Bldg., Watsonville.
contractor—H. H. Larsen Co., 64
South Park, San Francisco.

Plans Being Completed.
RESIDENCE Cost, \$—
OODSTOCK, San Mateo Co., Calif.
wo-story and basement frame and
stucco residence.
owner and builder—G. W. Williams
& Co., Ltd., 1404 Broadway, Burlingame.
architect—Withheld.
Sub-bids will be taken in 2 weeks.

Construction Postponed Indefinitely.
RESIDENCE Cost, \$18,000
DOCKTON, San Joaquin Co., Calif.
North Cross Addition (Pine St.)
wo-story and basement brick veneer
residence (11 rooms, 4 baths).
owner—L. E. Reaney, 415 East Miner
St., Stockton.
architect—J. U. Clowdsley, Exchange
Bldg., Stockton.
Lowest bid submitted by E. Merlo,
Dockton. Construction may go ahead
about two months.

Contract Awarded.
RESIDENCE Cont. price, \$7665
ERKELEY, Alameda Co., Cal. Norwood
Avenue.
wo-story and basement frame and
stucco residence (5 rooms).
owner—Withheld.
architect—Hardman & Russ, Berkeley
Bank Bldg., Berkeley.
contractor—Connor and Connor, 1726
Grove St., Berkeley.

Construction Started.
RESIDENCE Cost, \$35,000
ILLSEOROUGH, San Mateo Co., Cal.
Brewer Tract.
wo-story and basement frame and
stucco residence.
owner and builders—Simpson and
Wardner, Hillsborough Blvd. and
Bromfield Road, Hillsborough.
architect—Angus McSweeney, 277 Pine
St., San Francisco.

To Be Done By Day's Work.
RESIDENCE Cost, \$60,000
ILLSEOROUGH, San Mateo Co., Cal.
wo-story and basement frame and
stucco residence (19 rooms).
owner—Withheld.
architect—Withheld.
contractor—A. H. Feasey, 210 Clara
St., San Francisco.
Slate or tile roof, French architect-
ure.

Plans Being Completed.
RESIDENCE Cost, \$12,000
ANTA CRUZ, Santa Cruz Co., Cal.
wo-story and basement frame and
stucco residence (7 rooms and 3
baths; English type; tile or slate
roof).
owner—L. Bowman, Santa Cruz.
architect—L. D. Esty & McPhetres,
Alta Bldg., Santa Cruz.
Bids will be taken about March 15.

Sub-Bids Being Taken.
RESIDENCES \$6000 and \$7000 each
SAN FRANCISCO Kirkham St. (Sun-
set District).
Twelve two-story frame and stucco
residences (5 and 6 rooms each).
Owner—Carl Wengard, 5 4 6 Sansome
St., San Francisco.
Architect—Fabre and Hildebrand, 110
Sutter St., San Francisco.

Project Abandoned.
RESIDENCE Cost, \$16,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence (8 rooms and 3
baths).
Owner—Dr. E. E. Porter, Security
Bank Bldg., San Jose.
Architect—Wolfe & Higgins, Realty
Bldg., San Jose.
Low Bidder—S. Flore, San Jose.

Plans Being Prepared.
RESIDENCES Cost each, \$6000
MILLBRAE HIGHLANDS, San Ma-
teo Co., Cal.
Two-story and basement frame and
stucco residences (6 rooms each).
Owner and Builder—Castle Bldg. Co.,
830 Market St., San Francisco.
Architect—Not Given.
Sub-bids will be taken in one week.
The bid and composition roofing, gas heat-
ing system.

SCHOOLS

Bids To Be Taken Within Few Days.
DORMITORY Cost, \$—
MENLO PARK, San Mateo Co., Cal.
One-story reinforced concrete dormi-
tory (for boys).
Owner—Menlo School (L. S. Howard
in charge), Menlo Park.
Architect—Birge M. Clark, 310 Universi-
ty Ave., Palo Alto.

BERKELEY, Alameda Co., Calif.—
Board of Education has authorized the
preparation of plans to surface the
play ground at the Jefferson school;
estimated cost, \$11,000.

Bids Opened.
SCHOOL Cost, \$40,000
SANTA CLARA, Santa Clara Co., Cal.
Brick veneer annex to high school.
Owner—Santa Clara School District.
Architect—W. H. Weeks, 111 Sutter
St., San Francisco.

This structure will be financed with
monies now in the district's Reserve
Fund.
Alt. 1, deduct for omitting tile roof.
Alt. 2, add for finishing second floor
and corridors.
Alt. No. 3, add for finishing first
floor.
Alt. 4-A, add if ceiling is changed
from wood lath to metal, 2nd floor.
Alt. 4-B, add if ceiling is changed
from wood lath to metal, 1st floor.
Following is a complete list of bids:

General Work

Wm. Meyer, Cupertino, \$19,980;
(1) \$200; (2) \$3995; (3) \$3998; (4-A)
\$150; (4-B) \$120.
W. J. Ochs, San Jose, \$19,998; (1)
\$691; (2) \$7912; (3) \$3873; (4-A) \$156;
(4-B) \$95.
Neves & Hart, San Jose, \$21,435;
(1) \$700; (2) \$7995; (3) \$4136; (4-A)
\$175; (4-B) \$110.
G. M. Latta, San Jose, \$21,564; (1)
\$831; (2) \$7262; (3) \$4206; (4-A) \$156;
(4-B) \$100.
Paul N. Anderson, San Jose, \$22-
636; (1) \$690; (2) \$6562; (3) \$3521;
(4-A) \$210; (4-B) \$180.
Carl N. Swensen, San Jose, \$22,935;
(1) \$680; (2) \$6391; (3) \$3176; (4-A)
\$150; (4-B) \$100.
R. O. Summers, San Jose, \$22,950;
(1) \$760; (2) \$8265; (3) \$4180; (4-A)
\$97; (4-E) \$150.
The Minton Co., Mt. View, \$23,290;
(1) \$700; (2) \$8235; (3) \$4655; (4-A)
\$170; (4-B) \$115.
George Honora, San Jose, \$24,040;
(1) \$690; (2) \$8349; (3) \$5664; (4-A)
\$142; (4-B) \$175.
P. J. Edmans, San Jose, \$24,597; (1)
\$690; (2) \$8795; (3) \$4493; (4-A) \$156;
(4-B) \$100.
Chas. Thomas, San Jose, \$25,170;
(1) \$723.

Heating

A. J. Peters & Son, 455 E Washing-
ton St., San Jose, \$6470; (1) \$2100; (2)
\$2657; (3) \$258.
William Scapa, San Jose, \$6938; (1)
\$1830; (2) \$2775; (3) \$387.
Hately & Hately, Sacramento \$7363;
(1) \$2446; (2) \$4622; (3) \$295.

Painting

George M. Cahill, 763 E Julian St.,
San Jose, \$214; (1) \$900; (2) \$700.
C. W. Lynn, San Jose, \$268; (1) \$861
(2) \$510.
Huber & Brown, San Jose, \$205; (1)
\$818; (2) \$575.
Patterson Bros., San Jose, \$370; (1)
\$924; (2) \$630.
W. J. Ochs, San Jose, \$370; (1) \$924;
(2) \$650.
Raphael Co., San Francisco, \$475;
(1) \$1,030; (2) \$465.
William Loos, San Jose, \$485; (1)
\$895; (2) \$825.

Preparing Preliminary Plans.
BUILDING Cost, \$100,000
SAN FRANCISCO State Teachers'
College (124 Buchanan St.)
Addition classroom building.
Owner—State of California.
Architect—S. Heiman, 605 Market St.,
San Francisco.

Plans Being Figured—Bids Close Mar.
31, 2 P. M.
CLUB BLDG Sost, \$—
SAN DIEGO, Cal. Teachers' College.
One-story frame and stucco club
building and one-story frame and
stucco scripps building (tile roof)
Owner—State of California.
Architect—Geo. B. McDougall, State
Architect, Public Works Bldg.,
Sacramento.

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PAIRFIELD, Solano Co., Cal.—F. E. Turner Co., Stockton, awarded contract by Armijo Union High School District to furnish and install opera chairs in the auditorium and balcony of high school, W. E. Coffman, architect, Forum Bldg., Sacramento.

Prospective Bidders.
CAPE TERIA Cost, \$25,000
YUBA CITY, Sutter Co., Calif. Yuba City High School.
 One-story reinforced concrete cafeteria.

Architect—Chas. F. Dean, California State Life Bldg., Sacramento.
 Following contractors have secured plans:
Mathews Const. Co., Forum Bldg., Sacramento.
George Hudnutt, 1915 S St., Sacramento.
Lindgren & Swinerton, Inc., California State Life Bldg., Sacramento.
Chas. F. Unger, 4532 T St., Sacramento.

F. H. Betz, 1017 43rd St., Sacramento.
W. C. Keating, Forum Bldg., Sacramento.
H. W. Robertson, 2532 33rd Street, Sacramento.
C. J. Hopkinson, 1810 28th St., Sacramento.
Yoho & Dauger, 2911 W St., Sacramento.
M. R. Peterson, 4530 Parker Ave., Sacramento.
J. R. Gales, Winters, Calif.
Guth & Fox, 1510 27th St., Sacramento.

F. H. Nielson, Orland, Calif.
 Bids are to be opened March 20th, 8 P. M.

Prospective Bidders.
ADDITION Cost, \$55,000
MADERA, Madera Co., Cal.
 Class C brick addition to high school. Architect—Davis Pearce Co., Grant & Weber Sts., Stockton.

Bids will be opened in the cafeteria building at the high school at Madera. Plans provide for modernizing the clock and electric lighting system in the old structure and the remodeling of some of the classrooms in the top floor into a study hall.
 Following contractors have secured plans:
General Work
John Cavanaugh, 219 N Sutter St., Stockton.
Carl Nelson, Stockton.
C. H. Dodd, 1421 E Channel Street, Stockton.
H. H. Henning, 1761 Berkeley Ave., Stockton.
P. R. Zinck, 2034 Pacific Avenue, Stockton.
George Roek, 1724 W Cornell Ave., Stockton.
I. E. Toothacre, 1131 S Hunter St., Stockton.
Swanson & Chance, Turlock.
M. F. Barozzo, Modesto.
Ernest Green, Modesto.
Fred. H. Betz, 1017 43rd St., Sacramento.
Fred. E. Taylor, 1120 W Flora St., Stockton.
Azevedo & Sarmiento, 920 O St., Sacramento.

Plumbing and Heating
George A. Schuster, 4712 Grove St., Oakland.
G. A. Newman Co., Fresno.
 Bids are to be opened March 23, 1:30 P. M.

Preparing Working Drawings.
SCHOOL Cost, \$87,000
YUBA CITY, Sutter Co., Cal.
 Two-story brick elementary school. Owner—Yuba School District. C. P. Taylor, Roy E. Cassidy and Elizabeth Z. Littleton (clerk), trustees of district.

Bids will be taken in about 45 days. Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.

Plans Being Figured—Bids Close Mar. 23rd, 2 P. M.

SCHOOL Cost, \$650,000
SANTA BARBARA, Calif.
 Two-story reinforced concrete school building (terra cotta, tile roof). Owner—Santa Barbara Union High School District. Architect—W. H. Weeks, 111 Sutter St., San Francisco.

Bids will be received separately for each kind of work as follows: (1) general plumbing; (2) heating and ventilating; (3) electrical work. Cashier's or certified check or bond for 10% required. Plans may be obtained from Architect W. H. Weeks, 111 Sutter St., San Francisco, upon deposit of \$50 for the general set and \$25 for each other set. Plans are on file for examination at the office of the board of education, 1235 Chapala St., Santa Barbara. E. Carlotta Dengate, clerk. There will be an administration and classroom building, shop building and a gymnasium; reinforced concrete construction, terra cotta tile roofing, concrete or steel joists, wood and metal lath partitions, hydro-electric elevator, steel windows, cement and hardwood floors, tiled toilet rooms, steam heating system.

Commissioned To Prepare Plans.
ADDITION Cost, \$130,000
ALBANY, Alameda Co., Cal. Marin Elementary School and Cornell Elementary School.

Additions to two elementary schools. Owner—Albany School District. Architect—Paul L. Dragon, 1654 Marin Ave., Albany.
 Contemplated improvements involve new classrooms, heating plants, desks and equipment, playground developments, etc.

Plans Being Completed. Cost, \$25,000
AUDITORIUM
SACRAMENTO, Sacramento Co., Cal.
 One-story and basement brick auditorium. Owner—St. Joseph's Academy. Architect—Harry Devine, California State Life Bldg., Sacramento.
 Bids will be taken in one week.

Contract Awarded.
ADDITION Cost, \$—
SAN FRANCISCO. Fulton Street nr. Stanton St.
 Three-story reinforced concrete addition to present building. Owner—University of San Francisco. Architect—Edward Eames, 253 Sacramento St.
Contractor—Barrett & Hilp, 918 Harrison St.
 Excavation is under way by general contractors. Sub-bids will be taken on other portions of the work in one week.

Plans Being Figured—Bids Close Mar. 17th, 8 P. M.

SCHOOL Cost, \$30,000
SANTA CLARA, Santa Clara Co., Cal.
 Reinforced concrete elementary school. Owner—Santa Clara School District. Architect—Ralph Wyckoff, 19 N 2nd St., San Jose.

This structure will be financed with monies now in the district's Reserve Fund. Bids are being taken for a general contract with separate bids for plumbing, electric and painting.

SAN FRANCISCO.—Until March 16, 3 P. M., under Proposal No. 659, bids will be received by Leonard S. Leavy, City Purchasing Agent, 270 City Hall, to furnish stage fittings and draperies, rigging and counterweight systems for addition to the Balboa High School. Specifications obtainable from above.

SANTA MARIA, Santa Barbara Co., Cal.—Anton Johnson Co., 517 El Centro St., South Pasadena, submitted low bid at \$73,800 to Santa Maria City

School District and will probably award the contract for the erection of a new grammar school building at West El Camino St. Krell, Plumber & Electric Co., 119 W. Main St., Santa Maria, was awarded contract at \$11,439.61 for plumbing, heating and sheet metal work, and The Electric Sho awarded contract at \$174 for electric work. Louis N. Crawford, architect, 8 Gibson-Drexel Bldg., Santa Maria. There will be a classroom and administration building and a domestic science building; reinforced concrete construction, clay tile and composition roofing, galvanized iron, ornamented iron, hardwood and cement floors, tiled toilet rooms, steam heat. The bid follows:

General—Anton Johnson Co., \$73,800
 Minton Co., \$76,789; W. L. Snook, \$79,192; Gene E. Foster, \$79,728; The Maino, \$82,750; J. J. Munemann \$83,880; O. C. Marriott Co., \$84,400
 Deane Building Co., \$86,697.22.

Plumbing, Heating and Sheet Metal—Krell Plumbing & Electric Co., \$11,439.61; W. W. Thrimble, \$11,871.
Electric Wiring—The Electric Sho \$1874; Ed. Anderson, \$2397; Krel Plumbing & Electric Co., \$2462.77; J. & M. Electric Co., \$2495.

BERKELEY, Alameda Co., Calif.—Until March 16, 8 P. M., bids will be received by Clara F. Andrews, secretary, Board of Education, 2225 Military St., to furnish and deliver school supplies for the school year 1931-1932. Specifications and further information obtainable from above.

Preparing Preliminary Plans.
ADMINISTRATION BLDG. \$200,000
FRESNO, Fresno Co., Calif. State Teachers' College.
 Fireproof library and administration building.

Owner—State of California. Architect—Swartz and Ryland, Brick Bldg., Fresno.

Preliminary Plans Being Prepared.
ALTERATIONS Cost, \$—
MONTEREY, Monterey Co., Cal.
 Alterations and additions to auditorium and present academic building. Owner—Monterey Union High School District. Architect—Swartz & Ryland, Spazio Bldg., Monterey.

Contract Awarded.
SEMINARY BLDG. Cost, \$445,000
SEATTLE, Wash. On Lake Washington.

Four-story and basement fireproof Seminary Building, (1st unit), 35 by 40 ft. with wing 85x60 ft. Owner—St. Edward's Seminary. Architect—John Graham, Dexter Horton Bldg., Seattle.

Contractor—Henrikson-Alstrom Construction Co., Inc., Securities Bid Seattle.

Will be faced with brick with cast stone trimmings. Tile roofing installed.

Bids Opened.
ADDITION Cost, \$40,000
EMERYVILLE, Alameda Co., Calif.
 Reinforced concrete addition to high school.

Owner—Emeryville High School District. Plans by Eng. Dept. of Owner (Carl Mr. Hawley, Emeryville). Following is a complete list of bids:

General Work
 Alt. No. 1 add, if changed from frame to concrete.
 E. T. Leary & Son, \$11,377 St. Oakland, \$15,987; (1) \$10,657.
 *George Swanstrom, Oakland, \$15,996; (1) \$25,895.
 George Maurer, Oakland, \$15,999; (1) \$7,523.
 *T. Lesure, Oakland, \$16,100; (1) \$25,380.
 Sullivan & Sullivan, Oakland, \$16,998; (1) \$10,600.

S. Sjöberg & Son, San Francisco, \$17,458; (1) \$10,378.
 MacDonald & Son, Oakland, \$18,224; (1) \$8,494.
 Victor DeVight, Oakland, \$19,246; (1) \$11,664.
 *Culbert Bros., Oakland, \$20,640; (1) \$29,840.
 Beckett & Wright, Berkeley, \$21,293; (1) \$10,487.
 Hudson & Branagh, Oakland, \$22,000; (1) \$14,000.
 E. Person, Oakland, \$27,320; (1) \$11,026.

Heating
 Pearey & Moll, 1075 40th St., Oakland\$4,987
 Pacific Heating & Ventilating Co., Oakland5,825
 Schreiber Bros., Oakland.....5,990
 George Schuster, Oakland.....6,185
 Carl T. Doell, Oakland.....6,286
 *Second bid is total for both propositions.
 Bids held under advisement.

Plans Being Figured.
SCHOOL Cost, \$50,000
 SAN GABRIEL, Los Angeles Co., Cal. Two-story brick parochial school.
 Owner — Roman Catholic Bishop of Los Angeles and San Diego.
 Architect—Gene Verge, Beaux Arts Bldg., Los Angeles.

BANKS, STORES & OFFICES

Sub-Contracts Awarded.
STORE Cost, \$100,000
 OAKLAND, Alameda Co., Cal. No. 1717 Broadway.
 Two-story and basement reinforced concrete store (75x110 feet)
 Owner—Mrs. Phillip E. Bowles, Russ Bldg., San Francisco.
 Architect—Douglas Stone, 1706 Broadway, Oakland.
 Contractor—R. W. Littlefield, 337 17th St., Oakland
Electric Work—Matson Seabrooke Co., 4115 Broadway, Oakland.
Structural Steel Independent Iron Works, 1820 Chace St., Oakland.
Excavation—J. Catucci, 1212 18th Ave., Oakland.
 Other awards will be made shortly.

Contract Awarded.
ALTERATIONS Cost, \$4000
 SAN FRANCISCO, No. 886 Geary St. Alterations to bakery (interior and exterior).
 Owner — Eppers Bakery, 886 Geary St., San Francisco.
 Plans by Mullen Mfg. Co.
 Contractor—Mullen Mfg. Co., 60-80 Rausch St., San Francisco.

Sub-Bids Being Taken,
REMODELING Cost, \$—
 SAN FRANCISCO, 553 Polson St. Remodel 3-story concrete loft building (new front, new concrete floor new rear wall, etc.)
 Owner and Builder—Jos. Greenbach, Hearst Bldg.
 Engineer—John G. Little, 251 Kearny Street.
 As previously reported, wrecking awarded to Banks Wrecking Co., 1230 Howard St.

Wrecking and Excavation Contracts Awarded.
 OAKLAND, Alameda Co., Cal. NW Twenty-first St. and Broadway. Eight-story and basement class A reinforced concrete furniture display rooms and stores, 100x250-ft.
 Owner—Pacific States Auxiliary Corp. Lessee—John Breuner Co., 15th and Clay Sts., Oakland.
 Architect—Albert F. Roller, 1st National Bank Bldg., San Francisco.
 Engineer—H. J. Burnner, Sharon Bldg., San Francisco.
 Contractor—P. J. Walker Co., Sharon Bldg., San Francisco.
Excavation—J. Catucci.
Wrecking—Symon Bros. Wrecking Co.

Sub-bids on other portions of the work will be taken shortly.
Cabinet Bids Being Taken.
BANK Cost, \$200,000
 MONTEREY, Monterey Co., Cal. Location not specified.
 One-story and mezzanine steel frame and concrete bank with tile roof.
 Owner—Monterey County Trust and Savings Bank.
 Architect—E. H. Winner Co., 580 Market St., San Francisco.
 Mgr. of Const.—Mark Philayson, are architect.
 Electrical work will be let shortly.
 As previously reported, structural steel awarded to McClellan-Marshall Co., 2059 Bryant St., San Francisco; reinforcing steel to Gunn, Carle & Co., 444 Market St., San Francisco; excavation to M. J. Murphy, Carmel.

Sub-Bids Being Taken.
ADDITION Cost, \$10,000
 SAN FRANCISCO, E Montgomery St. N Broadway.
 One-story addition to reinforced concrete building.
 Owner—Fireman's Insurance Co. of Newark, 60 Sansome St.
 Engineer—Ellison & Russell, Pacific Building.
 Contractor—MacDonald & Kahn, Financial Center Bldg.

Bids To Be Taken In One Week.
STORE Cost, \$8000
 BURLINGAME, San Mateo Co., Cal. California Drive.
 One-story reinforced concrete store.
 Owner—F. Peterson, Burlingame.
 Architect—E. L. Norberg, 559 Market St., San Francisco.

Sub-Contracts Awarded.
REMODELING Cost, \$11,000
 STOCKTON, San Joaquin Co., Calif. 248 East Main Street.
 Remodel ground floor of office bldg.
 Owner—Capitol Co., 248 E Main St., Stockton.
 Architect—Not Given.
 Contractor—Lewis & Green, Bank of America Bldg., Stockton.
Stone Work—California Cut Stone & Granite Works.
Concrete—A. V. Cowell, 1231 N Sutter St., Stockton.
Lumber—San Joaquin Lbd. Co., Scotts Ave. and Madison, Stockton.
Mill Work—Union Planing Mill, Taylor and Sutter Sts., Stockton.
Plumbing and Heating—Fahl - Harry Co., 427 E Channel St., Stockton.
Electric—Grider Electric Co., 409 E Weber St., Stockton.
Iron and Steel—Seller Iron Works, 945 S Pilgrim, Stockton.
Glass—V. P. Fuller & Co., 218 South Aurora St., Stockton.

Steel Contract Awarded
REMODELING Cost, \$50,000
 SAN FRANCISCO, First and Mission Remodel present building.
 Owner—C. G. Moore & Co., Sheldon Bldg., San Francisco.
 Architect—Fred H. Meyer, 525 Market St., San Francisco.
 Contractor—George Wagner, 181 South Park, San Francisco.
Steel—Western Iron Works, 141 Beale St., San Francisco.

Contract Awarded.
OFFICES Cost approx. \$800,000
 SACRAMENTO, Sacramento Co., Cal. Eighth and J Streets.
 Sixteen-story and basement class A reinforced concrete office building.
 Owner—Henry Mitau et al, 1422 40th St., Sacramento.
 Architect—Geo. Sellon & Co., California State Life Bldg., Sacramento.
 Contractor—Anderson and Swinerton, Inc., California State Life Bldg., Sacramento.
 It is expected to start construction April 1st.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$20,000
 SAN FRANCISCO, SW Scott St. and Chestnut St.
 Alterations & additions to store bldg.
 Owner—E. Stern, premises.
 Architect—S. Heiman, 605 Market St.
 Contractor—L. J. Cohn, 1 De Haro St.
 Iron—Fair Mfg. Co., 617 Bryant St.
Lumber—Christensen Lbr. Co., Fifth and Hooper Sts.
Glass—Crows Glass Co., 675 Golden Gate Ave.
Electric Work—W. H. Morgan, 2241 15th Avenue.
Excavation—Fiombo Bros., 69 DeLong Street.
Plumbing—J. Gibbs & Son, 1706 Geary Street.

Plans Being Completed.
BANK Cost, \$25,000
 HOLISTER, San Benito Co., Cal. One-story reinforced concrete bank.
 Owner—Bank of America.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Bids will be taken in about 10 days.

Bids To Be Taken In One Week.
BANK Cost, \$75,000
 SAN MATEO, San Mateo Co., Cal. E St. and Third Ave. (110 ft. frontage).
 One-story concrete bank.
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of America Bldg., Eddy and Powell Sts., San Francisco.

Contract Awarded.
STORE Cost, \$50,000
 BAKERSFIELD, Kern Co., Cal. I and N-19th Streets
 One-story reinforced concrete store.
 Owner—Bank of America.
 Architect — H. A. Minton, Bank of America Bldg., Eddy and Powell Sts., San Francisco.
 Lessee—J. J. Newberry Co.
 Contractor—G. A. Graham, 1927 A St., Bakersfield.

Plans Being Prepared
OFFICE BLDG. Cost, \$—
 LOS ANGELES, Cal. No. 535 South Flower Street.
 Limit height Class A office building.
 Owner—Joseph F. Rhodes, Pershing Square Bldg., Los Angeles
 Architect—Walker & Eisen, Western Pacific Bldg., Los Angeles.

Plans Being Completed.
STORES Cost, \$—
 SANTA BARBARA, Santa Barbara Co., Cal. State St. (4 corners).
 Four two-story class C stores.
 Owner—Fox West Coast Theatres.
 Architect—Edwards & Plunkett, 20 E-Figueroa St., Santa Barbara.
 Bids will be taken shortly.

Sub-Contracts Awarded.
STORE Cost, \$16,000
 PALO ALTO, Santa Clara Co., Cal. San Francisco and San Jose Aves.
 One-story and basement reinforced concrete and steel store (3 stores)
 Owner—E. J. Worth, 2409 El Camino Real, Palo Alto.
 Plans by George Moore.
 Contractor—George Moore, 531 Stanford St., Palo Alto.
Ornamental and Miscellaneous Iron and Structural Steel—San Jose Iron Works, 535 W-San Carlos St., San Jose.

Contract Awarded.
STUDIO Cost, \$6000
 SAN FRANCISCO, 67 Sutter Street.
 Construct broadcasting studio.
 Owner—National Broadcasting Co.
 Architect—Wm. C. Ambrose, 605 Market Street.
 Contractor—Clinton-Stephenson Const. Co., Monadnock Bldg. (without competition).

Excavation Contract Awarded.
OFFICES Cost, \$25,000
BURLINGAME, San Mateo Co., Cal.
Primrose Road near Burlingame
Avenue.
Two-story and basement reinforced
concrete building (offices & studio)
Owner—Dorothy Crawford Studio
Plans by Russell Coleman, 1404 Broad-
way, Burlingame.
Contractor—G. W. Williams Co., Ltd.,
1404 Broadway, Burlingame.
Excavation—H. E. Casey Co., San
Mateo.

Plans Being Completed
STORES, ETC. Cost, \$16,000
SAN MATEO, San Mateo Co., Cal.
South Blvd.
Two-story frame and stucco building
(2 stores, 2 apts., 3 rooms each,
and service station).
Owner and Builder—Hugo Holtburg,
229 2nd Ave., San Mateo.
Plans by R. L. Rigby, 1433 Edgell
Drive, Burlingame.
Sub-bids will be taken in about two
weeks.

Completing Plans.
STORE Cost, \$100,000
LOS ANGELES, Cal. Washington
and Reed Streets.
Two-story and basement Class B
brick and steel store.
Owner—Gore Bros.
Architect—Balch Bros., Film Ex-
change Bldg., Los Angeles.
Lessee—Hill Bros. Furniture Co.
Bids will be taken in ten days.

Completing Plans.
MARKET Cost, \$25,000
BEVERLY HILLS, Los Angeles Co.,
Cal. Wilshire Blvd. and Beverly
Blvd.
One-story brick and concrete market
(287x37x73 feet).
Owner—Gore Bros.
Architect—Balch Bros., Film Ex-
change Bldg., Los Angeles.
Lessee—Union Market Co.
Bids will be taken in ten days.

Plans Being Completed.
STORE Cost, \$60,000
SAN FRANCISCO. Acton and Mis-
sion Streets.
Two-story and basement reinforced
concrete store and apt. bldg.
Owner—S. Martin, San Francisco.
Architect—W. H. Weeks, 111 Sutter
Street.
Bids will be taken in about three
weeks.

Structural Steel Contract Awarded.
BANK Cost, \$80,000
LOS GATOS, Santa Cruz Co., Calif.
Main St. and Santa Cruz Avenue
(52x100-ft.)
One-story reinforced concrete bank
with tile roof (ornamental stone
and acoustical plaster).
Owner—Bank of America.
Architect—H. A. Minton, Bank of
America Bldg., Eddy and Powell
Sts., San Francisco.
Contractor—Jacks and Irvine, 74 New
Montgomery St., San Francisco.
Structural Steel—Judson Pacific Co.,
609 Mission St., San Francisco.
There will be two stores, 20x72 feet
in connection with the building. Sub-
bids are being taken on other por-
tions of the work.

THEATRES

Commissioned To Prepare Plans.
ALTERATIONS Cost approx. \$60,000
SAN FRANCISCO. 4631 Mission St.
Alterations to present theatre.
Owner—Golden State Theatre & Real-
ty Co., 25 Taylor St.
Architect—Frederick H. Meyer, 525
Market St.

REDLANDS, San Bernardino Co.,
Cal.—Architect S. C. Lee, 2404 W 7th
St., Los Angeles, is preparing plans,
and R. W. Brown, Riverside, will build
a theatre and hotel-apartment build-
ing on E State St., Redlands, for the
Redlands Income Properties Co. The
theater portion will be class C con-
struction and will have a seating ca-
pacity of 900. Seven-story hotel-ap-
artment will be class B construction
and will contain 36 apartments and
36 guest rooms. Concrete and brick
work, tile and composition roofing,
cement and wood floors, two elevators,
tile and marble work, gas steam
radiators, etc. Cost, \$400,000.

Ornamental Iron Contract Awarded.
THEATRE Cost, \$20,000
MERCED, Merced Co., Cal. Seventh
and J Sts (150x150 feet).
Two-story Class C steel frame and
reinforced concrete theatre, stores
and office building (theatre to seat
1700).

Owner—Golden State Theatres, Inc.,
938 Market St., San Francisco.
Architect—Reid Bros., 105 Montgom-
ery St., San Francisco.
Contractor—G. B. Pasqualetti, 2330
Larkin St., San Francisco.
Ornamental iron—San Jose Iron
Works, 555 W-San Carlos St., San
Jose. Previously reported, excavation
awarded to J. W. Hoffman, Merced.

Sub-Bids Being Taken.
THEATRE Cost, \$90,000
SOUTH SAN FRANCISCO, San Ma-
teo Co., Cal.
One-story reinforced concrete theatre
(stadium type to seat 1000).
Owner—Chas. E. Petersen, 191 15th
Ave., San Francisco.
Architect—Dodge Riedy, Pacific Bldg.,
San Francisco.
Contractor—R. C. Stickle, 213 Linden
Ave., South San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$3000
OAKLAND, Alameda Co., Cal. 12th
and Broadway.
Alterations to theatre exit and stores.
Owner—Levy Estate.
Architect—Clausen and Amandes,
Hearth Bldg., San Francisco.
Contractor—Barrett & Hip, 918 Har-
rison St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$60,000
RICHMOND, Contra Costa Co., Calif.
(California Theatre).
Alterations to class C steel frame and
brick theatre (change balcony,
etc.)
Owner—Fox West Coast Theatres, Inc.
Architect—Clausen and Amandes,
Hearth Bldg., San Francisco.
Contractor—James L. McLaughlin Co.,
251 Kearny St., San Francisco.

Preparing Plans.
THEATRE Cost, \$50,000
COLVALLIS, Ore. SW Fourth and
Madison Streets.
Fireproof theatre (100x125 feet; seat-
ing 1000).
Owner—Frank Groves.
Architect—Thomas & Mercier, Yeon
Bldg., Portland.

March 4, 1931
Sub-Contracts Awarded.
ALTERATIONS Cost, \$3000
OAKLAND, Alameda Co., Cal. 13th
and Broadway.
Alterations to theatre exit and stores.
Owner—Levy Estate.
Architect—Clausen and Amandes,
Hearth Bldg., San Francisco.
Contractor—Barrett & Hip, 918 Har-
rison St., San Francisco.
Marble—Ray Cook Marble Co., foot
of Powell St., Oakland.
Electric—T. L. Rosenberg, 411 Web-
ster St., Oakland.

Plumbing and Heating—James Pink-
erton, 927 Howard St., San Fran-
cisco.

Glass—Tyre Brothers Glass Co., 666
Townsend St., San Francisco.
Ventilating and Sheet Metal—Central
Sheet Metal Works, 2547 Hannah
St., Oakland.
Bids are wanted on mill work, plas-
tering and painting.

Construction Started.
THEATRE Cost, \$100,000
SAN MATEO, San Mateo Co., Cal.
Two-story Class C concrete and steel
theatre and store (to seat 1000;
contain four stores).
Owner—W. S. Leadley, 207 2nd St.,
San Mateo.
Architect—S. Chas. Lee, 2404 W. 7th
St., Los Angeles.
Contractor—Leadley & Wiseman, 207
Second St., San Mateo.
Sub-bids are in and will be awarded
within one week.

**MISCELLANEOUS
CONSTRUCTION**

Sub-Contracts Awarded.
STATION Cost, \$45,000
(building only)
DIXON, Solano Co., Cal.
Two-story brick and concrete trans-
mitting station.
Owner—Pacific Telephone & Telegraph
Co., 140 New Montgomery Street,
San Francisco.

Plans by Eng. Dept. of Owner.
Contractor—Lindgren and Swinerton,
Inc., California State Life Bldg.,
Sacramento.
Brick filler walls, reinforced con-
crete frame and columns.
Glass—East Bay Glass Co., 621 Sixth
St., Oakland.

Cement and Lumber—Dixon Lumber
Co., Dixon.

Iron—Alling Iron Works, 2415 5th St.,
Sacramento.

Electric—M. P. Cannon, 2708 10th Ave.,
Sacramento.

Plumbing and Heating—F. A. McIn-
tyre, 2922 25th St., Sacramento.
Road Work—J. R. Reeves, 12th and
American River, Sacramento.

Concrete Materials—Pacific Coast Ag-
gregates, 82 2nd St., San Fran-
cisco.

Contract Awarded.
MAUSOLEUM Cost, \$75,000
POMONA, Los Angeles Co., Cal. Po-
mona Cemetery.
One-story reinforced concrete Class A
mausoleum (4x117 feet).
Owner—Pomona Cemetery Assn. (O.
B. Sellen, Secretary), 502 E. Frank-
lin St., Pomona.

Plans by Owner.
Contractor—Chas. W. Hughes, 1307 S-
Orange Grove, Los Angeles.

HONOLULU, T. H.—Diamond Head
Memorial Park Assn., Honolulu, is
taking bids for the construction of the
first unit of a crematory and columbarium
at Diamond Head Memorial
Park, Honolulu. Bids are being taken
for steel sash, wrought iron work,
bronze niche fronts, art glass and
marble. B. J. S. Cahill, architect,
357 12th St., Oakland.

Plans To Be Prepared.
ADDITION Cost, \$45,000
SAN RAPHAEL, Marin Co., Cal. At
County Farm.
Wing addition to county farm building
(40x100 ft.)

Owner—County of Marin (Rob. E.
Graham, County Clerk).
Architect—Not Selected.
Will contain 8 or 10 rooms for
women inmates and a recreation room
connected by arcade with main kitch-
en. On top of arcade will be located
a sun porch.

The improvements will be under-
taken on the recommendation of Thos
O'Connor, Superintendent of the
county farm.

SAN FRANCISCO—Board of Supervisors rejects all bids submitted in connection with the construction of a garbage incinerator and has referred two dumping-at-sea bids to the Health Committee for report.

Contract Awarded.
KEELSO, S. O. Cost, \$15,000
SAN FRANCISCO. Hunter's Point
 Drydock.

Reinforced concrete keelson.
 Owner—Bethlehem Shipbuilding Co.,
 20th and Illinois Sts.
 Plans by Eng. Dept. of Owner.
 Contractor—Barrett & Hilp, 918 Har-
 rison Street.

MADERA, Madera Co., Cal.—Shul-
 man-Conroy Paint Co., 609 Frederick
 St., San Francisco, at \$340 awarded
 contract by city trustees for painting,
 minor adjustments and incidental re-
 pairs to the municipal water tank with
 a capacity of 80,000 gals. Interior and
 exterior of tank to be painted; replace
 spurr rods where necessary; two air
 vents, 2 sq. ft. each to be set in tank
 roof and covered with 18-gauge, 3/4-
 in. mesh, galvanized wire screen;
 caulk all leaks, etc. A complete list
 of the bids received follows:
 Shulman-Conroy Paint Co. \$ 340
 Ernest Higgo, Madera 440
 J. O. Faust, Manteca 470
 Edwin Anderson, San Francisco 635
 E. H. Fitzgibbon, Sanger 640
 B. E. Friday, Los Angeles 753
 Hollywood Boiler Works, Holly-
 wood 945
 M. W. Hancock, San Francisco 1068

Sub-Bids Wanted.
STAGE DEPOT Cost, \$—
VALLEJO, Solano Co., Cal. Sonoma
 and York Streets.

One - story frame and stucco stage
 depot.
 Owner—Pacific Greyhound Lines, 9
 Main St., San Francisco.
 Plans by Charles Dawe, 981 Peralta
 St., Berkeley.
 Contractor—Chas. Dawe, 981 Peralta
 St., Berkeley.

Sub-bids are wanted on plumbing,
 electrical work, roofing and roof tile,
 plastering, corrugated iron and glass.

**MISCELLANEOUS SUPPLIES
 AND MATERIALS**

SAN FRANCISCO—Following bids
 received by city purchasing agent to
 furnish, install and service 3 electric
 refrigerators for Juvenile Detention
 Home:

L. H. Bennett Corp., \$1749, General
 Electric, guaranteed 3 years.
 Dohrmann Hotel Supply Co., \$1749;
 General Electric, guaranteed 3 years.
 Kierulff & Renscott, \$1575; with
 5 years' free service.
 Cyclops Iron Works, \$1450; Larkins
 Coils, free service.
 Sherar Young Co., \$1643; service \$15
 per year.
 Cochran & St. John, \$1560; 2 years'
 free service, after that \$60 per year.
 Scott-Buttner Refrigerator Co., \$1-
 400; Electro Kold, service \$42 per yr.

MILLBRAE, San Mateo Co., Cal.—
 Until March 9, 8 P. M., bids will be
 received by William Wilkin, clerk,
 Millbrae School District, to construct
 galvanized chain link fence at Mill-
 brae School. Plans and further in-
 formation obtainable from above.

GLENDALE, Los Angeles Co., Cal.
 —Until 10 A. M., March 12, bids will
 be received by the Glendale city coun-
 cil for furnishing and delivering f. o. b.
 warehouse, by truck, 115 North
 Howard St., Glendale, Calif., as fol-
 lows:

Item 1. Ten thousand pounds No.
 4 B & S gauge, solid, T. B. W. P.
 medium hard drawn copper wire
 Item 2. Thirty thousand pounds No.
 2 B & S gauge, solid T. B. W. P.

medium hard drawn copper wire.
 No. 4 wire to be in coils of 150 lbs
 to 180 lbs.
 No. 2 wire to be on reels of 850
 lbs. to 1000 lbs. per reel and in one
 piece.
 Insulating fabric to be all cotton
 braid.
 Certified check, 10%. G. E. Chap-
 man, city clerk.

CHICO, Butte Co., Cal.—Until
 March 18, 5 P. M., bids will be re-
 ceived by Geo. L. More, Secretary,
 Bi-Cent Park and Playground Com-
 mission, to furnish 20,000 gallons of
 road oil. Certified check 10% required
 with bids. Specifications obtainable
 from secretary

BUSINESS OPPORTUNITIES

Names and addresses of persons or
 firms concerned in the following op-
 portunities will be furnished on re-
 quest to Business Opportunity Depart-
 ment, Daily Pacific Builder, 547 Mis-
 sion St., San Francisco or Phone Gar-
 field 8744:

20875—Representation. Cincinnati,
 Ohio. Party making regular trips to
 Japan, Manchuria, Hong Kong, Philip-
 pines, Singapore and Java, is seek-
 ing additional accounts.

20876—Bamboo. Long Beach, Calif.
 Party inquires for list of local im-
 porters of bamboo.

20878—Wiping Rags.—Augusta, Ga.
 Firm inquires for list of importers
 and assorters of foreign wiping rags.

20883—Representation. San Fran-
 cisco. Party who will be taking up
 permanent residence in El Salvador
 is anxious to represent manufacturers in
 the building lines, such as lumber,
 cement, corrugated roofing, etc., there.

20888—Representation. San Fran-
 cisco. Party, highly qualified, is de-
 sired of representing San Francisco
 manufacturers in Mexico and Central
 America. 31

Edward L. G. Angert, The Ohio
 Pattern Works & Foundry Co., Cin-
 cinnati, Ohio. Manufacturers of brass
 valves are interested in securing rep-
 resentation in this city and surround-
 ing territory for their product.

A. C. Behrend, American Sales Fac-
 tors, Jersey City, N. J., wishes to con-
 tact local firm seeking an outlet in
 New York Metropolitan Area and sur-
 rounding territory.

W. W. Cook, Sanivac Pacific, Ltd.,
 155 Nort La Brea Ave., Los Angeles,
 Calif., is seeking distributor for a new
 style vacuum cleaner in this area.

J. C. Speck, The Permanent Manu-
 facturing Co., Ninth-Vincent Bldg.,
 Cleveland, Ohio, manufacturer of origi-
 nal, electrical novelty wishes to con-
 tact some firm or individual looking
 to ward establishing representation
 here. 31

A wooden hangar successfully weath-
 ered a series of seven fire tests made
 by a special 'Fact-Finding Commit-
 tee' organized by the Aeronautics
 Branch of the United States Depart-
 ment of Commerce, to determine the
 effectiveness of automatic applica-
 tion of water in controlling airplane
 hangar fires, according to the report
 of the committee, which covers the
 circumstances and gives the results
 and conclusions of the tests which
 were conducted in Washington last
 spring with obsolete airplanes in a
 regulation-size lumber hangar. It is
 amply illustrated with photographs
 and drawings and gives comprehen-
 sive details for the information of
 aeronautical engineers and other in-
 terested persons. The report, which
 is available from the Public Printer
 at Washington, at a nominal charge
 of 15 cents per copy, covers each test
 in detail.

San Jose Hardware Co. of San
 Jose has added a complete line of
 electric washing machines and vacuum
 cleaners to its present home ap-
 pliance stocks. The new lines will be
 handled by Reuben Walker and Louis
 Epping, both of whom have had a
 wide experience in the sales and ser-
 vice of electric appliances.

Vallejo, Calif., building permits in
 February, registered \$2,435, the best
 record for that month for the past
 five years. The next best February
 total was in 1923 when the construc-
 tion expenditure totaled \$24,900.

Reports of new orders for fabri-
 cated structural steel for the week
 ending January 31, 1931, were receiv-
 ed from 191 establishments, whose ca-
 pacity represented 47.9 per cent of
 the total capacity of all plants in the
 United States. The bookings reported
 by these establishments amounted to
 17,514 tons, representing 39.6 per cent
 of the total capacity of the reporting
 establishments. Reports of shipments
 of fabricated structural steel for the
 same week were received from 98 es-
 tablishments, whose capacity repre-
 sented 45.7 per cent of the total ca-
 pacity of all plants in the United
 States. The shipments reported by
 these establishments amounted to 22-
 308 tons, representing 62.9 per cent
 of the total capacity of the reporting es-
 tablishments.

A. S. Holmes, city building inspector
 of Oakland, reports the issuance of
 253 building permits in February for
 improvements involving an expendi-
 ture of \$1,000,035. Home building is
 the most active construction in Oak-
 land, according to Holmes, who cites
 thirty-seven permits granted during
 February for one-story dwellings
 costing \$127,775.

In line with its policy of having
 all facts at hand before contracts are
 awarded and to keep the pledge that
 the proposed \$35,000,000 Golden Gate
 Bridge will come within the money
 available from the bond issue, directors
 of the Golden Gate Bridge and
 Highway District on March 11 will
 probably authorize additional borings
 for the south side pier site. It is
 expected that the additional borings
 will reveal rock formations which will
 reduce the preliminary estimates of
 cost at the pier site.

Protection of legitimate local con-
 tractors from unfair competition by
 outside and irresponsible local op-
 erators was demanded by the Build-
 ers Exchange and General Contractors
 Association of Monterey at the last
 meeting of the Monterey City Council.
 D. L. Dawson, secretary of the former
 group, and John Tauffer, head of
 the latter, appeared in person in sup-
 port of the demand.

After a lengthy debate on legal as-
 pects of the situation, City Attorney
 Argyll Campbell pointed out the im-
 possibility of openly discriminating
 against any firm or individual, on any
 basis, Campbell promised to evolve
 some practical method of affording the
 protection asked without violating any
 state or federal constitutional limita-
 tions.

Norman W. Kelch, secretary-man-
 ager of the Clay Products Institute of
 California with headquarters in Los
 Angeles, addressed members of the
 Brick Masons' Association and mem-
 bers of the clay products industry in
 San Francisco last Wednesday. Kelch
 spoke on conditions in the industry
 and offered suggestions to promote the
 sale of clay products in the building
 field.

Engineering News Section

BRIDGES

LOS ANGELES, Cal.—An appropriation of \$550,000 for the First St. and Glendale Blvd. Separation Structures was authorized by the city council Feb. 24. Plans, which are being completed by the bridge department under the supervision of Merrill Buttr, Chief Engineer, show a structure of all steel construction with a main span of 200 ft. It is described as a steel arch structure, part through and part open deck type used in Continental Europe. The total length is 950 ft. The viaduct will pass over the Pacific Electric tracks and the tracks of the Los Angeles Railway.

NAPA, Napa Co., Cal.—Until March 17, 11 A. M., bids will be received by the Board of Directors, Joint Highway District No. 7, in the Napa County Courthouse, to construct a steel and concrete bridge on the Healdsburg-Calistoga Highway, 10 miles east of Healdsburg. Project involves: (1) 463 cu. yds. class A concrete; (2) 13 cu. yds. class E concrete; (3) 84,700 lbs. reinforcing steel; (4) 300 cu. yds. structure excav.; (5) 7,000 cu. yds. roadway excav.; (6) remove old bridge.

Plans obtainable from E. A. Peugh, engineer, for the district, Courthouse, Santa Rosa.

OAKLAND, Cal.—County Surveyor Geo. A. Posey preparing plans for bridge in Park street, San Leandro.

SAN DIEGO, Cal.—The State Supreme Court at San Francisco on Feb. 25 upheld the city of San Diego in its fight to build a highway bridge across Mission bay, north of the city, at an estimated cost of \$725,000. Property owners in the assessment district had protested construction of the bridge and appealed a lower court decision in which the validity of the plan was upheld. The supreme court decision upheld the lower court.

MONTEREY COUNTY, Cal.—Until March 25, 2 P. M., bids will be received by State Highway Commission to construct a reinforced concrete bridge across Garrapata Creek about 16 miles south of Monterey, consisting of one 150-ft. arch span and five 25-ft. girder spans on concrete abutments and bents and about .28 mile of roadway to be graded.

See call for bids under official proposal section in this issue.

MERCED, Merced Co., Cal.—County Surveyor W. E. Bedesen authorized to proceed under an emergency order with the construction of a timber bridge on the Cottonwood School House Road over Sturgeon Canal in Road District No. 4 and a reinforced concrete bridge over M. I. D. Canal in Road District No. 3.

PERSHING COUNTY, Nev.—A. D. Drumm, Jr., Fallon, N. D., at \$29,652 awarded contract by State Highway Commission to construct concrete and steel grade separation structure including approaches over the Southern Pacific Railway near Woolsey in Pershing County. Quantities of materials involved in this project published in issue of Feb. 13. Following is a complete list of bids received:

A. D. Drumm, Fallon.....	\$33,052
J. N. Tedford, Fallon.....	33,547
Nevada Rock & Sand Co., Reno	35,185
Geovault & Eves, Fallon.....	36,995
J. S. Jensen, Reno.....	38,484
Anderson & McShee, Winne-	
muca.....	38,484
O. G. Ritchie, San Jose.....	39,811
Orin Bundy, Ogden, Utah.....	41,496
Isabel Const. Co., Carson City.....	41,593

Crushed rock or crushed gravel for surfacing roadway furnished by the state in stockpile opposite Station "L" 432.

SAN LUIS OBISPO COUNTY, Cal.—Until March 12, 2 P. M., bids will be received by District Engineer, State Highway Commission, Bank of Italy Bldg., San Luis Obispo, to repair bridge across the Estrella River about 12 miles east of Paso Robles, consisting of one 154-foot through steel truss span. Plans obtainable from district engineer.

SAN FRANCISCO.—Golden Gate Bridge and Highway District, Alexander Bldg., at its meeting on March 11 will probably order additional borings at the south pier site of the proposed Golden Gate bridge. Sixteen borings have already been made at the pier and anchorage sites.

OAKLAND, Cal.—Lee J. Immel, 1021 Evelyn St., Oakland, at \$3,105 awarded contract by county to construct reinforced concrete multiple box culvert at Station 529-00, known as the Alameda-Centerville Road in Washington Road District. Following is a complete list of the bids:

Lee J. Immel, Oakland.....	\$ 8,105
Dudley De Velbiss, S. F.....	8,500
Peter McHugh, S. F.....	8,555
Geo. Maurer, Oakland.....	8,724
Hudson & Branagh, Oakland.....	8,640
Holyoke & Gonzales, Oakland.....	8,747
J. B. Petersen, Oakland.....	9,107
J. H. Fitzmaurice, Oakland.....	9,603
C. A. Bruce & Son, Pleasanton	10,250
Frederickson & Watson, Oak.....	10,505
E. T. Lesure, Oakland.....	10,668

SAN FRANCISCO.—Board of Public Works has requested the Board of Supervisors to adopt an ordinance authorizing the calling of bids for the construction of the Sunset Boulevard-Sloat Blvd. Viaduct; estimated cost, \$175,000. The project involves the construction of an ornamental reinforced concrete viaduct 249-ft. long and 135-ft. wide with a minimum clearance of 65-ft., involving 4,000 cubic yards of concrete and 400 tons of reinforcing steel. Plans for this project are being completed by the Bureau of Engineering, Department of Public Works, 3rd floor, City Hall.

SANTA BARBARA COUNTY, Cal.—Following bids received March 4 by the State Highway Commission to construct a reinforced concrete arch bridge across Vaviota Creek, consisting of one 100-ft. span.

Paul M. White, Santa Monica.....	\$36,957
Oberst Bros., Los Angeles.....	43,276
Guth & Bell, Arcadia.....	47,637
Byert & Dunn, Los Angeles.....	53,058
Merritt, Chapman & Scott, San	
Pedro.....	54,483

Bids held under advisement.

SAN MATEO-SANTA CLARA COUNTIES, Cal.—Following bids received March 4 by the State Highway Commission to construct a reinforced

concrete girder bridge across San Francisco Creek at Palo Alto, consisting of three 27-ft. spans on concrete pile bents.

Barrett & Hill, 918 Harrison	
St., San Francisco.....	\$17,213
MacDonald & Kahn, S. F.....	19,999
Geo. J. Urrich, Modesto.....	20,220
M. B. McGowan, San Francisco.....	20,675
J. W. Hoopes, Sacramento.....	20,735
Paul M. White, Santa Monica.....	21,473
A. W. Kitchin, San Francisco.....	21,529
Ralph Hunter, Sacramento.....	21,899
Frederickson & Watson Const.	
Co., Oakland.....	22,094
A. J. Ruisch, San Jose.....	22,440
Clinton-Stephenson Const. Co.,	
San Francisco.....	22,956
A. T. Howe, Santa Rosa.....	24,954
Healy-Tibbitts Const. Co., S. F.....	24,935
Merritt, Chapman & Scott, San	
Pedro.....	25,462
Peter McHugh, San Francisco.....	26,337

Bids held under advisement.

MERCED, Merced Co., Cal.—County Surveyor W. E. Bedesen preparing plans for bridge over Dry Creek on Amsterdam to Kyer road in Road District No. 1. Bids will be asked shortly.

DREDGING, HARBOR WORKS & EXCAVATIONS

SAN DIEGO, Cal.—W. E. Kier Construction Co., 843 First National Bank Bldg., San Diego, awarded contract by Public Works Officer, 11th Naval District, San Diego, at \$72,919 to construct quay wall at the Naval Operating Base (Destroyer Base), San Diego. Specifications No. 640. The work consists of a quay wall approximately 764 feet long and includes reinforced concrete precast sheet piles; reinforced concrete cap; untreated timber bearing piles and timber platform; creosoted wales, etc.; cast steel bits and miscellaneous steel and iron work.

SAN FRANCISCO.—Following bids received by City Purchasing Agent under Proposal No. 687 to furnish and deliver 4 miles 3/4 round copper alloy trolley wire for Municipal Railway: General Cable Corp., \$20.58; allowance for reels, \$15. General Electric Supply Co., \$20.83; allowance for reels, \$20.

KETCHIKAN, Alaska.—Puget Sound Bridge and Dredging Co., of Seattle, Wash., at \$197,050 awarded contract by U. S. Engineer Office, Seattle, under Proposal No. 167, for dredging and constructing rubble mound breakwater at Ketchikan. Complete list of bids follows:

Item 1, per cu. yd. excavation; 2,	core rock; 3, armor rock;
Puget Sound Bridge and Dredging	Co., Seattle, Wash., item 1, 57c; 2,
\$2.33; 3, \$3.27; total, \$197,050, accepted	by Wright Construction Co., Aberdeen,
Wash., item 1, 56c; 2, \$3.50; 3, \$4.50;	total \$211,360.
Kobbie & Miller Engineering Corp.,	Seattle, Wash., item 1, 63c; 2,
\$3.44; total, \$244,300.	

OAKLAND, Cal.—Longview Dredging Co. Rio Vista, at \$63 cu. yd., awarded contract by City Port Commission for placing 660,000 cu. yds. dredging material north of the Key Route Mole.

OAKLAND, Cal.—City Port Commission, Bank of Savings Bldg., authorized by the Federal Government to fill in 1720 acres north of the Key Route Mole, involving 2,160,000 cubic yards. The material of this amount, 700,000 cubic yards will come from the dredging of the entrance to the inner harbor. The remainder will come from port ceanisation dredging projects in the estuary. Plans announced by the port commission call for the development of a huge harbor along the north Oakland waterfront. The docks will have a capacity of 80 vessels.

MACHINERY AND EQUIPMENT

LODI, San Joaquin Co., Cal.—Until March 10, 2:30 P. M., bids will be received by W. E. Shipman, clerk, Lodi Union High School District, to furnish and deliver school bus chassis or bus body or both under one contract. Body to accommodate 42 to 48 passengers with average weight per person of 120 pounds. Further information obtainable from above.

OROVILLE, Butte Co., Cal.—County Surveyor J. A. Bumgarner authorized by county supervisors to purchase an oil distributing truck, a grill press, tools and an electric welding outfit. Funds to finance are in the budget.

MEHA, Ariz.—Until 5 P. M., March 10, bids will be received by the Mesa city council for furnishing one crawler type tractor in accordance with specifications which may be obtained from the city engineer or from the city clerk, J. Edwin Miller.

FIRE EQUIPMENT

SAN MATEO, San Mateo Co., Cal.—City council will place proposal on April 7 ballot to vote bonds of \$30,000 to finance erection of a fire station in Beresford Park and the purchase of additional fire fighting equipment and to remodel a sub-station in Bellevue Avenue.

RESERVOIRS AND DAMS

RENO, Nevada.—A bill authorizing an expenditure of \$750,000 for construction of a reservoir in the Truckee river above Reno, and for other dams and improvements to impound waters of the Webster, Independence and Donner lakes has passed the United States senate and is ready for consideration by the house of representatives, according to the Associated Press. The bill, introduced by Senator Tasker L. Odell of Nevada, was intended to provide that no funds be expended until contracts satisfactory to the secretary of the interior have been executed by the irrigation district or similar agencies to provide for repayment by the water users of money expended.

KENNETT, Shasta Co., Ca.—Army engineers have recommended that the Federal government contribute \$6,000,000 toward the construction of a dam in the Sacramento River at Kennett, by the state of California. The dam is to provide for continuous discharge of water sufficient to maintain a flow of 6000 cubic feet per second between Chico and Sacramento.

DENVER, Colo.—For three low bidders in connection with the Hoover-Boulder Dam, power house and appurtenant work, see article on page one of this issue. A complete tabulation of the bids received on this project will be published in these columns shortly.

HEALDSBURG, Sonoma Co., Cal.—City trustees meet lone bid of W. H. Chaney at \$2,950 to enlarge capacity of second reservoir in connection with municipal water system; engineer's estimate \$2,400. Work will be done by city forces under the direction of Archie B. Stuart, city engineer.

HAWTHORNE, Nev.—Until March 25, under Specification No. 6165, bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., to construct Cat Creek Dam at Hawthorne in connection with the Naval Ammunition Depot, now in course of construction.

The work consists of constructing a constant angle type concrete dam, approximately 120 feet in height, requiring rock excavation; concrete work; drilling grout holes; pressure grouting; pipe and fittings for grouting and drainage systems; and intake pipe and screens.

Plans obtainable from District Public Works Officer, Room 513, 100 Harrison Street, San Francisco, on deposit of a check or postal money order for \$10, payable to the Chief of the Bureau of Yards and Docks.

ORANGE, Orange Co., Cal.—R. G. Le Tourneau, 122 Moss Ave., Stockton, awarded contract by Serrano Irrigation District and the Carpenter Irrigation District to construct earth rolled fill type dam in Santiago Canyon. The directors of the district have not determined the basis upon which the contract will be awarded.

Le Tourneau was low on the alternative propositions which provided for securing concrete aggregate from Santiago Canyon or from other sources. The low bid on the former was \$507,721.50 and on the latter \$502,251.50.

The proposed dam will be approx. 125 ft. high, 150 ft. in length, with a 60-ft. thickness at the base, tapering to 10 ft. at the top. The reservoir thus formed will impound 25,000 acre feet.

PIPE LINES, WELLS, ETC.

SANTA BARBARA, Cal.—Until 2 P. M., March 5, bids will be received by City council to construct complete, not more than four test wells of not less than 8-in. diameter and 200 ft. more or less in depth, on city land. Specifications, forms, etc., may be obtained from the Superintendent of the Water Department, Vector Trace, upon deposit of \$5. Geo. D. Geib, city clerk.

OAKLAND, Cal.—Until March 11, 8 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., to construct and furnish 6,000 lin. ft. 24-inch thickness 20-inch diameter electric welded sheet steel pipe for the distribution system. Specifications obtainable from above.

FRESNO COUNTY, Cal.—Until Mar. 5, 10:30 A. M., bids will be received by H. S. Foster, city clerk, to furnish: 3,000 ft. 4-in. C. I. E. and S. type Class 150 pipe in 16-ft. lengths; 700 ft. 8-in. C. I. E. and S. type Class 250 pipe in 12-ft. lengths; pipe to be painted on exterior with asphaltum or coal tar paint and to be provided with cement lining to conform to specifications of American Society for Testing Materials adopted Aug., 1925. 400 ft. 2-in. C. I. E. and S. pipe pre-calcined, suitable for 150 lbs. working pressure in 5 or 6 ft. lengths; 100 ft. 2-in. C. I. pipe, suitable for 150 lbs. working pressure, threaded at both ends, in 5 or 6 ft. lengths.

Alternate bids will be received on the following classes of pipe: McWane Horizontal Sand Cast, Class 150; Mono

Cast Centrifugal Class 150; DeLavaud Centrifugal, Class 150.

All bids will be taken on new pipe only f.o.b. State time of delivery. Certified check of 10% required payable to City. Plans and further information obtainable from above.

FAIRFIELD, Solano Co., Cal.—Until March 13, 8 P. M., bids will be received by Lewis Meritt, city clerk, to construct one test bore to minimum depth of 700 ft. and maximum depth of 1000 ft.; minimum diameter of bore to be 10½-in. and maximum 14½-in. Rotary hydraulic drilling equipment to be used, of a size and capacity suitable to complete the above work and further reach the test bore to a diameter of 22 inches to 30 inches, at the option of the Superintendent of the Water Department, after analysis of the test bore has been determined as to whether the test bore is to be abandoned altogether or only a portion thereof, or if all of the total depth of bore will be completed as a well.

Certified check of 10% payable to Mayor required with bid. Specifications obtainable from city clerk.

SAN FRANCISCO.—J. B. Rogers, 110 Sutter St., at \$7,160 awarded contract by Board of Public Works to drill two wells in 43rd Ave. as parts 1 and 3 of contract and one test well.

SEWERS AND SEWAGE DISPOSAL PLANTS

SAN MATEO, San Mateo Co., Cal.—City Clerk E. W. Foster will ask bids at once, to be opened about April 7, to construct concrete storm drain to replace wooden culvert in 28th Ave.

SAN FRANCISCO.—Until March 18, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to construct a reinforced concrete sewer at crossing of Sunset Blvd. and Lincoln Way; estimated cost, \$50,000. The project will involve: (a) 8¼ lin. ft. 7-ft. 3-in. by 9-ft. reinforced concrete sewer;

- (b) 386 lin. ft. 5-ft. 6-in. circular do;
- (c) 108 lin. ft. 18-in. V.C.P. sewer;
- (d) 4 brick or concrete manholes;
- (e) 1 taper connection from 5-ft. 6-in. sewer to 7-ft. 3-in. by 9-ft. sewer;
- (f) 1 taper connection from 7-ft. 3-in. sewer to 6-ft. 6-in. sewer;
- (g) 1 taper connection from 5-ft. 6-in. sewer to 6-ft. 6-in. sewer.

Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from the Bureau of Engineering, 3rd floor, City Hall.

WATER WORKS

LOS ANGELES, Cal.—Chas. Henrietta, 2100 Blanche St., Pasadena, at \$4,450 for San Gabriel Dam No. 3, and at \$5,200 for San Gabriel Dam No. 2, awarded contract by county supervisors to drive exploration tunnels.

EXETER, Tulare Co., Cal.—Bonds of \$24,000 were voted to finance improvements to municipal water system, involving 500,000 gallon storage tank, well drilling, installation of a deep well and booster pumps, and extensions to mains. I. H. Althouse, engineer, Porterville.

LAGUNA BEACH, Orange Co., Cal.—Until 7:30 P. M., March 10, bids will be received by Laguna Beach County Water District to furnish and install two motor driven pumping units. Specifications may be obtained at the office of the Laguna Beach County Water District, L. C. Weisberger, secretary. Certified check or bond, 10%.

HEALDSBURG, Sonoma Co., Cal.—Wallace and Tiernan, San Francisco at \$622 awarded contract by city trustees to furnish and install chlorinator in connection with municipal water system.

MILLBRAE, San Mateo Co., Cal.—Until March 12, 7:30 P. M. (date advanced from February 26), bids will be received by A. W. Richardson, clerk, Millbrae Public Utility District, to construct distributing system, involving:

- (1) 3450 ft. 6-in. cast iron pipe;
- (2) 1150 ft. 4-in. cast iron pipe;
- (3) 8275 ft. 2-in. galvanized wrought iron pipe;
- (4) 4 6-in. gate valves;
- (5) 15 4-in. do;
- (6) 25 2-in. do;
- (7) 1 reinf. conc. meter manhole;
- (8) 45 valve boxes;
- (9) Installing fire hydrants furnished by the district.

Certified check 10% payable to district required with bid. Plans obtainable from George A. Kneese, engineer, Stafford Bldg., Redwood City

PITTSBURG, Contra Costa Co., Cal.—City Manager George T. Oliver has submitted a report to the city council providing for the purchase of a water softener in connection with the water system. The cost is placed at \$30,000. Construction of a large reservoir for the storage of river water is also considered.

SAN LUIS OBISPO, Calif.—Until March 25, 10 A. M., bids will be received by the U. S. Property and Disbursing Office for California, 128 State Capitol, Sacramento, for installation of cast iron water distributing system to replace existing distributing system at the National Guard Training Camp at San Luis Obispo. Plans obtainable from above office.

BURLINGAME, San Mateo Co., Cal.—Engineer C. C. Kennedy, Call Bldg., San Francisco, has submitted a report to the city council for a unified water system for the cities of Burlingame and Hillsborough. The cost is estimated at \$595,865. The report sets with changes and improvements in the distributing and conveyance lines to meet requirements of the district and also indicates the necessary amount of reservoir storage capacity to meet the fluctuating demands for domestic purposes and fire protection. It suggests the elevation and location of reservoirs in addition to those in existence and outlines a method of securing a dependable supply from Crystal Springs Lake.

The report was laid over for further consideration.

LOMPOC, Santa Barbara Co., Cal.—Until 7:30 P. M., March 17, bids will be received by the Lompoc city council for furnishing one 500 G. P. M. deep well turbine pump with direct connected motor.

GRIDLEY, Butte Co., Cal.—Until March 23, bids will be received by J. L. Lewis, city clerk, to furnish one carload of water pipe for extension to municipal water system. Specifications obtainable from clerk.

REDWOOD CITY, San Mateo Co., Cal.—Until March 16, 3 P. M., bids will be received by B. E. Myers, city clerk, to furnish and install pumping units in connection with water system extensions to wells in the Canine Tract. E. A. Rollson is city manager and C. L. Dimmitt, city engineer. Specifications on file in office of clerk.

PLAYGROUNDS & PARKS

SAN DIEGO, Calif.—An election will be held March 10 to vote on a \$435,000 bond issue for the purchase of sites

for public pleasure grounds and parks within San Diego County. The bonds shall be 435 in number and bear interest at 5 1/2%.

SAN FRANCISCO—Board of Supervisors rejects all bids submitted in connection with the construction of a garbage inclinator and has referred two dumping-at-sea bids to the Health Committee for report.

BERKELEY, Alameda Co., Calif.—Board of Education has authorized the preparation of plans to surface the playground at the Jefferson school; estimated cost, \$11,000.

STREETS AND HIGHWAYS

CLARK COUNTY, Nev.—Pat Cline, Inc., Las Vegas, Nev., at \$55,266.76 awarded contract by State Highway Commission for grading, structures and gravel surfacing on 10.38 miles from Las Vegas to 10 miles southeast. Quantities of materials involved published in issue of February 3.

BERKELEY, Alameda Co., Calif.—Board of Education has authorized the preparation of plans to surface the playground at the Jefferson school; estimated cost, \$11,000.

SALINAS, Monterey Co., Cal.—Until March 13, 10 A. M., bids will be received by C. F. Joy, county clerk, to construct portion of the Sacramento road between Engineers Station 0 plus 00 and 157 plus 20, being in Monterey Division of the Santa Barbara National Forest and Supervisor District No. 4. Deposit of \$10 required for plans obtainable from County Surveyor Howard Cozzens.

FRESNO, Fresno Co., Calif.—Ed. Johnson & Son, 4183 S Normandie Ave., Los Angeles, awarded contract by county supervisors at \$3800 to pave county highway near Riverdale, approximately 4000 lin. ft. The bid was \$10.40 per ton for approx. 750 tons of Permanite, with reconstruction of shoulders, \$500. Thompson Brothers, Fresno, bid \$10.50 per ton on Jenomite and \$12.50 per ton on Permanite, with reconstruction of shoulders \$550, or a total of \$8425 (based on Permanite).

REDWOOD CITY, San Mateo Co., Cal.—City Engineer C. L. Dimmitt estimates cost of placing red-rock shoulders on the Wondside Road at \$1,500. Taken under advisement.

SAN JOSE, Santa Clara Co., Cal.—City council declares intention (5314) to improve San Fernando St. between 19th and 24th Sts., involving grading, pave with 1 1/2-in. asph. conc. surface with 3-in. asph. conc. base, cement concrete curbs, walks and gutters. 1911 Act. Hearing March 16, John J. Lynch, city clerk. Wm. Popp, city engineer.

NAPA, Napa Co., Cal.—City council declares intention (536) to construct concrete curbs in 8th St. bet. River St. and Soscol Ave. 1911 Act. Hearing March 23. H. H. Thompson, city clerk. H. A. Harold, city engineer.

CHICO, Butte Co., Cal.—Until March 18, 3 P. M., bids will be received by Geo. F. More, Secretary, Bidwell Park and Playground Commission, to furnish 20,000 gallons of red oil. Certified check 10% required with bids. Specifications obtainable from secretary.

SAN BERNARDINO COUNTY, Cal.—Following bids received March 4 by the State Highway Commission to grade and surface with oil treated crushed gravel or stone, 13.6 miles between Cronise Valley and 6 miles west of Baker:

McCray Co., 4482 E Worth St., Los Angeles\$247,700
 H. W. Rohi Co., Los Angeles 248,786
 Geo. Herz Co., San Bernardino 255,450
 F. W. Nighbert, Bakersfield 259,310
 O. A. Lindberg, Stockton 266,235
 A. Teichert & Son, Sacramento 268,293
 Chas. Henser, Glendale 268,510
 Morrison & Knudsen, Boise, Idaho 274,410
 Robinson Roberts Co., L. A. 278,727
 Bids held under advisement.

SAN FRANCISCO—M. Bertolino, 32 Shotwell St., at \$992 submitted low bid to Board of Public Works to improve Bradford St. bet. Cortland Ave. and Powhattan Sts., involving:

- (1) 167 lin. ft. concrete curb;
- (2) 25 lin. ft. 6-in. V.C.P. side sewers;
- (3) 2004 sq. ft. 6-in. class E concrete pavement.

Complete list of unit bids follows:

(A) M. Bertolino.	(A)	(B)	(C)
(B) United Improvement Co.	(1)	\$1.10	\$1.00
(C) Meyer Rosenberg.	(2)	1.50	1.00
	(3) .....	.36	.44

SAN FRANCISCO—M. Bertolino, 32 Shotwell St., at \$4,526 submitted low bid to Board of Public Works to improve Campbell Ave. bet. Alpha and Rulland Sts. Union Paving Co. only other bidder at \$4,654. Project involves:

- (a) 419 lin. ft. concrete curb;
- (b) 2380 sq. ft. conc. sidewalks;
- (c) 16 lin. ft. 6-in. V.C.P. side sewer;
- (d) 5235 sq. ft. asph. conc. pavement;
- (e) 900 sq. ft. class F concrete pave.

Unit bids follow:

	Bertolino	Union
(a)	\$ 1.40	\$ 1.50
(b) .....	.18	.16
(c)	45.60	45.60
(d) .....	.38	.46

SAN JOSE, Santa Clara Co., Cal.—County supervisors have ordered District Attorney Fred L. Thomas to proceed with condemnation suit against Stanford University to secure a right-

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipment;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.

Phone GARfield 4374

San Francisco

of-way across the university campus as a fourth traffic artery from San Jose to San Francisco. The proposed roadway will alleviate traffic conditions on the present route through Palo Alto to the Bay City and will extend through the western portion of the Stanford campus. It will commence at the Aratradero Road near Los Altos and continue across the university campus to the recently constructed bridge over the San Francisco Creek at the boundary of Santa Clara and San Mateo counties. It will be named the Junipero Serra Highway.

SAN FRANCISCO.—Bureau of Engineering, Dept. of Public Works, 3rd floor, City Hall, completes specifications to improve Montana Street bet. Paxon and Orizaba Avenues; esth. at. cost, \$11,000. Project involves:

- (1) 2300 cu. yds. excavation;
- (2) 500 cu. yds. embankment;
- (3) 1347 lin. ft. armored conc. curb;
- (4) 10,500 sq. ft. 1-course concrete sidewalk;
- (5) 70 lin. ft. 10-in. V.C.P. culverts;
- (6) 690 lin. ft. 6-in. V.C.P. side sewer;
- (8) 21,268 sq. ft. asph. conc. pave., 2-in. asph. conc. wearing surface and 6-in. class F conc. base.

SAN FRANCISCO.—Bureau of Engineering, Dept. of Public Works, 3rd floor, City Hall, completes specifications to improve Fitzgerald Ave. bet. Jennings and Golden Avenues, including the crossing at Jennings St.; estimated cost, \$2,975. Project involves:

- (1) 195 lin. ft. armored conc. curb;
- (2) 660 sq. ft. 1-course conc. sidewalk;
- (3) 4 brick catchbasins;
- (4) 90 lin. ft. 10-in. V.C.P. culverts;
- (5) 32 lin. ft. 12-in. V.C.P. sewer;
- (6) 68 lin. ft. 6-in. V.C.P. side sewer;
- (7) 6 13 sq. ft. asph. conc. pavement, 2-in. asph. conc. wearing surface and a 6-in. class F conc. base.

SAN FRANCISCO.—Bureau of Engineering, Dept. of Public Works, 3rd floor, City Hall, completes specifications to improve Sunnydale Ave. bet. Cedar St. and Bayshore Blvd.; estimated cost, \$1,900. Project involves:

- (1) 153 lin. ft. armored conc. curb;
- (2) 25 lin. ft. concrete curb to be reset;
- (3) 330 sq. ft. 1-course conc. sidewalk;
- (4) 1 brick catchbasin;
- (5) 20 lin. ft. 10-in. V.C.P. culverts;
- (6) 33 lin. ft. 8-in. do;
- (7) 36 lin. ft. 6-in. V.C.P. side sewers;
- (8) 5214 sq. ft. asph. conc. pavement consisting of 2-in. asph. conc. surface on 6-in. class F concrete base.

SAN JOSE, Santa Clara Co., Cal.—A. J. Raiesch, San Jose, awarded contract by city council (5283) to improve Emory St. bet. Dana Ave. and Park Ave., and a portion of Park Ave. involving grading, 1½-in. asphaltic concrete surface pavement on 2½-in. asphaltic concrete base with 3-inch gravel cushion, cement concrete curbs and walks, 4-in. vitrified sewer laterals, cement concrete storm water inlets, etc.

LAKE COUNTY, Cal.—Until March 16, 2 P. M., bids will be received by John H. Skeggs, district engineer, State Highway Commission, 211 State Bldg., San Francisco, to treat with light fuel oil as dust palliative, 25 miles between Middletown and the Ukiah-Tabeo Highway.

See call for bids under official proposal section in this issue.

SAN LUIS OBISPO COUNTY, Cal.—Following bids received March 4 by the State Highway Commission to grade and pave with asphalt concrete

9.8 miles between 1.5 miles south of Santa Margarita and Atascadero. Hanrahan Co., Standard Oil

Bldg., San Francisco \$209,700
 Peninsula Paving Co., S. P. 232,273
 Irving L. Rider, San Jose 223,330
 A. Teichert & Son, Sacramento 236,620
 Clark & Henry, San Francisco 232,719
 Central California Roads and Southern California Roads, Los Angeles 259,711
 T. J. Akmadzich, L. A. 351,489
 Bids held under advisement.

SAN JOSE, Santa Clara Co., Cal.—Until March 16, 8 P. M., bids will be received by John J. Lynch, city clerk (5287) to sewer portions of Willow St., Prevost St., and Delmas Ave., involving vit. pipe san. sewers, brick manholes, vit. wye branches, house laterals and flushing inlets. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Wm. Popp, city eng.

SAN MATEO, San Mateo Co., Cal.—Hanrahan Co., Standard Oil Bldg., San Francisco, at \$23,572.50 awarded contract by city council to improve Poplar St. from Delaware to Humboldt St. and along south side of San Mateo High School grounds, involving:

- 2,000 cu. yds. grading; 130 lin. ft. 4-in. vit. pipe sewers; 130 lin. ft. 6-in. do; 1400 lin. ft. concrete curb; 14,500 sq. ft. cement sidewalks; 1402 lin. ft. 2x5-ft. reinf. concrete box culvert; 7 catchbasins; 50,000 sq. ft. 6-in. 8-in. concrete pavement; 50 ft. 15-in. conc. pipe sewer; 90 ft. 12-in. do; 1 special catchbasin.

Complete list of bids follows:

Hanrahan Co. \$23,572
 T. M. McGaw 26,827
 W. A. Dontanville 27,096
 Fay Improvement Co. 27,485
 Eaton & Smith 29,527
 Union Paving Co. 30,979
 Palo Alto Paving Co. 31,515

PALO ALTO, Santa Clara Co., Cal.—Until March 9 8 P. M., bids will be received by E. L. Beach, city clerk, to improve (962) Palo Alto Ave., Hale, Pope and Dana Sts. Forest Court, Addison and Harker Aves., Webster St., Embarcadero Road, Lane "B" East, Santa Rita Ave., Sherman Ave., Princeton, Oberlin and Harvard Sts. Project involves:

- (1) 250,743 sq. ft. grading;
- (2) 308,520 sq. ft. 6-in. conc. pave.;
- (3) 14,386 lin. ft. conc. curbing;
- (4) 23,137 sq. ft. 4-in. cem. sidewalk;
- (5) 615 lin. ft. 6-in. sewer;
- (6) 690 lin. ft. 6-in. C. I. water main;
- (7) 150 lin. ft. 2-in. W. I. gas main;
- (8) 1 fire hydrant;
- (9) 3 manholes;
- (10) 83 4-in. sewer connections;
- (11) 83 ¾-in. water connections;
- (12) 18 ¾-in. gas connections.

Certified check of 10% req'd and payable to City of Palo Alto. Plans and specifications obtainable from J. F. Byxbee, city engineer.

TEHAMA AND SHASTA COUNTIES, Cal.—Until March 24, 2:00 P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to construct culvert on Section E and applying oil and processing the oil treated existing crushed rock surfacing on Sections A, B, C1, C2, C3, C4, and E. Route 1, the Loop Route, Lassen-Volcanic National Park and applying oil on Section A, Route 71, Mt. Lassen National Forest Highway, Lassen National Forest, 34,662 miles in length. Project involves:

- (1) 3700 cu. yds. excavation;
- (2) 175 cu. yds. excav., unclass. for structures;
- (3) 7.82 miles grading, subgrade and shoulders;
- (4) 14,500 cu. yds. crushed rock surf.;
- (5) 500 cu. yds. supplemental crushed rock;
- (6) 34,662 cu. yds. oil treated crushed rock surfacing;
- (7) 14,900 cu. yds. mile hauling binder;
- (8) 900 gal. water;
- (9) 500 cu. yds. additional binder;
- (10) 1800 cu. yds. screenings;
- (11) 158 cu. yds. class A concrete;
- (12) 18,000 lbs. reinforcing steel;
- (13) 26 cu. yds. cement rubble masonry;
- (14) 542,500 gal. fuel oil;
- (15) 337 tons asphaltic oil.

Plans obtainable from engineer on deposit of \$10, returnable, check for which must be made payable to Federal Reserve Bank of San Francisco.

CARSON CITY, Nevada.—A. D. Drumm, Fallon, Nev., was awarded contract by the Nevada State Highway Department, Feb. 25 at \$172,233.56 for the reconstruction of a section of the state highway system on State Route No. 1, in Lander and Eureka Counties, from Battle Mountain to 4 miles east of Supply, a total length of 28.46 miles.

REDDING, Shasta Co., Cal.—Announcement has been made of the appropriation of \$43,000 available for the immediate construction of the River Mills-Burney unit of the Redding-Alturas lateral by the California State Highway Commission.

OAKLAND, Alameda Co., Cal.—City council plans to widen 20th St., between Grand and Telegraph Aves., with a 50-foot thoroughfare. Estimated cost of the project is \$150,000, which is to be shared by both city and county.

ORANGE, Orange Co., Cal.—R. G. LeTourneau, 122 Moss Ave., Stockton, submitted low bid to Serrano Irrigation District to construct earth fill dam in Santiago Canyon at \$507,721.50. Bids held under advisement.

MODESTO, Stanislaus Co., Cal.—Sewer system is planned by city council to cost approximately \$55,000, in-

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SPECIFY -- USE

Timpie Hydrated Lime

STRONG—PURE—PLASTIC

Ten Years of Uniformly Satisfactory Experience in High

Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

Sold by Representative Dealers Everywhere

volving new line on Grand St., bet. Ninth & 14th Sts.; McHenry Ave. from and 13th Sts.; McHenry Ave. from Grant St. to Downey Ave. and down J St. to 17th. Call for bids will be issued within the near future.

33

MOUNTAIN VIEW, Santa Clara Co., Cal.—Until March 18, 7:30 P. M., bids will be received by E. L. Hays, city clerk, to scrape pneumatic scale and plank the inside of water tank on Franklin Street. Plans and further information obtainable from above.

35

STOCKTON, San Joaquin Co., Cal.—As previously reported, bids will be received by Eugene Graham, county clerk, March 16, 11 A. M., to improve the Meyer Road, 1.91 miles in length. Project involves:
(1) 8000 cu. yds. grading;
(2) 4500 tons base course;
(3) 460 tons crushed rock;
(4) 200 tons rock chips;
(5) 165 tons pea gravel;
(6) 108 bbls. fuel oil;
(7) 48 tons asphaltic oil;
(8) 2, install pipes.

Plans obtainable from County Surveyor Julius Manthey.

LANDER-EUREKA COUNTIES, Nev.—A. D. Drumm, Jr., Fallon, Nev., at \$172,233.56, under First Alternate, awarded contract by State Highway Commission to construct a section of highway on State Route No. 1 in Lander and Eureka Counties, from Battle Mountain to 4 miles east of Dunphy, a total of 28.46 miles. Quantities of materials involved in this project listed in our issue of Feb. 13. Following is a complete list of bids received:

Proposal No. 1.—Grading, construction of structures, placing of crushed rock or crushed gravel surface, and furnishing asphaltic fuel oil and mixing it with the crushed rock or crushed gravel surface (Road Mix Method).

A. D. Drumm, Jr., Fallon.....	\$172,233
J. N. Tedford, Fallon.....	179,482
Triangle Rock & Gravel Co., San Bernardino.....	184,146
Nevada Rock & Sand Co., Reno.....	188,134
Dodge Bros., Inc., Fallon.....	188,196
Isbell Const. Co., Carson City.....	193,547
Jack Casson, Hayward.....	197,017
Hemstreet & Bell, Marysville.....	229,834

Proposal No. 2.—Grading, construction of structures, placing of a crushed rock or crushed gravel base, furnishing mineral aggregate and asphaltic fuel oil, mixing the oil with the mineral aggregate (Premix or Plant Mix Method), and placing the premix surfacing material on the crushed rock or crushed gravel base.

Triangle Rock & Gravel Co., San Bernardino.....	\$195,244
Nevada Rock and Sand Co., Reno.....	204,830
Jack Casson, Hayward.....	216,091
Hemstreet & Bell, Marysville.....	239,803

PLUMAS COUNTY, Cal.—Morrison and Knudsen, Cont. National Bank Bldg., Boise, Idaho, at \$48,791 awarded contract by State Highway Commission to grade 0.7-mile between Paxton and Keddie.

MONTEREY COUNTY, Cal.—Until March 25, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland cement concrete, 11.1 miles between 2 miles north of Salinas and the north boundary.

See call for bids under official proposal section in this issue.

LOS ANGELES COUNTY, Cal.—Until March 25, 2 P. M., bids will be received by State Highway Commission to grade and oil 7.5 miles between Bailey's Ranch and Neenach School.

See call for bids under official proposal section in this issue.

SAN DIEGO COUNTY, Cal.—Until March 25, 2 P. M., bids will be received by State Highway Commission to pave with Portland cement concrete 3.8 miles between La Costa Creek and Campo Road Junction.

See call for bids under official proposal section in this issue.

OAKLAND, Cal.—County Surveyor George A. Posey, preparing specifications for final extension Skyline Blvd. Estimated cost \$50,000.

OAKLAND, Cal.—County Surveyor Geo. A. Posey preparing specifications to improve roads in the vicinity of Decoto; estimated cost \$2350.

SANTA BARBARA, Cal.—City Engineer, E. B. Brown preparing plans to improve Nopal St., from East Haley St. to Cacique St., using asphaltic concrete with cement concrete walks. Estimated cost \$25,000. Work under 1911 Act.

OAKLAND, Cal.—County Surveyor Geo. A. Posey preparing specifications to improve Vallecitos road in Pleasanton Township; estimated cost \$9000.

OAKLAND, Cal.—County Surveyor Geo. A. Posey preparing plans to extend Palomares road; estimated cost \$5000.

MODOC COUNTY, Calif.—Larsen Bros., Galt, Calif., submitted low bid at \$89,075 to C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading Section "A" of Route 11, Lava Beds National Forest Highway in Modoc National Forest, 10,932 miles in length, involving:

- (1) 78.0 acres clearing;
- (2) 95,200 cu. yds. unclass. excav.;
- (3) 366 cu. yds. excav. structures;
- (4) 17,250 sta. yds. overhaul;
- (5) 10.93 miles finish earth graded rd;
- (6) 93 cu. yds. class B concrete;
- (7) 914 lbs. reinforcing steel;
- (8) 2,044 lin. ft. 18-in. C. M. pipe;
- (9) 170 lin. ft. 24-in. do;
- (10) 72 lin. ft. 30-in. do;
- (11) 75 lin. ft. 36-in. do;
- (12) 33 right of way monuments.

Dunn & Baker, Portland, Ore., at \$113,167 was the only other bidder. Engineer's estimate was \$90,282.

Following is a complete list of the unit bids:

(A) Larsen Brothers.	(B)	(C)
(C) Dunn and Baker.	(A)	(B)
(C) Engineer's Estimate.	(A)	(B)
(1)	\$ 40.00	\$120.00
(2) .....	.78	.95
(3)	1.00	2.50
(4) .....	.01	.02
(5)	300.00	150.00
(6)	30.00	26.00
(7) .....	.06	.07
(8)	2.00	3.00
(9)	2.50	4.00
(10)	2.75	6.50
(11)	3.00	8.00
(12)	3.00	3.00

OAKLAND, Calif.—Hutchinson Co., 1450 Harrison St., Oakland, at \$839 submitted low bid to city council to improve portions of Fruitvale Avenue near the Tidal Canal, forming northern approach to Fruitvale Ave. bridge involving:

- (1) 1211 sq. ft. of grading;
- (2) 99 lin. ft. concrete curb;
- (3) 99 lin. ft. concrete gutters;
- (4) 1,046 sq. ft. 6-in. asph. conc. pave. with 1 1/2-in. asph. binder and 1 1/2-in. asph. surface;
- (5) 797 sq. ft. existing pavement and gutters to be resurfaced with asphalt concrete;
- (6) 1 manhole;

- (7) 1 storm water inlet;
- (8) 43 lin. ft. 10-in. concrete pipe conduit.

Following is a complete list of the unit bids:

(A) Hutchinson Co., 1450 Harrison St., Oakland.....	\$839
(B) W. H. Larsen, 2824 Benvenue Ave., Berkeley.....	960
(A)	(B)
(1) .....	.05
(2) .....	.75
(3) .....	.25
(4) .....	.40
(5) .....	.20
(6)	90.00
(7)	70.00
(8)	1.50

All bids held under advisement.

OAKLAND, Cal.—J. H. Fitzmaurice, 354 Hobart St., Oakland, at \$660.12 (\$1675 sq. ft.) awarded contract by city council to construct sidewalks in portions of 92nd Ave. bet. A and G Streets.

OAKLAND, Calif.—Hutchinson Co., 1450 Harrison St., Oakland, at \$2,156 awarded contract by city council to improve Patterson Ave. adjacent to Harbor View Ave., involving:

- (1) 608 cu. yds. excavation, \$89;
- (2) 305 lin. ft. concrete curb, \$75;
- (3) 616 sq. ft. concrete gutter, \$20;
- (4) 4473 sq. ft. penetration macadam pavement, \$16;
- (5) 1123 lin. ft. cement sidewalk, \$16;
- (6) 126 lin. ft. 6-in. pipe sewer, \$140;
- (7) 1 manhole, \$85;
- (8) 1 lamphole, \$25;
- (9) 6 Y branches, \$100;

SANTA BARBARA COUNTY, Cal.

—Approximate quantities for highway construction on Sections 2A and 2B, San Julian Road Project, for which bids will be received by the Santa Barbara County supervisors March 9 (previously noted), are:

- (1) 100,000 cu. yds. excavation;
- (2) 321 cu. yds. reinf. concrete;
- (3) 882 ft. 8-in. corr. iron culvert;
- (4) 526 ft. 24-in. do;
- (5) 104 ft. 36-in. do;
- (6) 154 ft. 30-in. do;
- (7) 386 ft. 48-in. do;
- (8) 46 ft. 42-in. do.

O. H. O'Neill, county surveyor.

SAN JOSE, Santa Clara Co., Cal.—

City council declares intention (\$306) to improve Empire Alley, sometimes called Belden Lane, between First and San Pedro Sts., involving grading, 5-in. cement concrete pave., cement concrete sump basin covered by two cast iron 17-in. top gratings, 8-in. vit. pipe drain, cement concrete walks, curbs and gutters, 6-in. cement concrete driveways. Act 1911. Hearing March 9. John J. Lynch, city clerk. Wm. Popp, city engineer.

STOCKTON, San Joaquin Co., Cal.—

City council ordered preliminary steps to be taken to widen Y Street from Alhambra Blvd. to Stockton Blvd. Estimated cost \$50,000. Lyle Payton, city engineer. M. E. Page, city clerk.

OAKLAND, Alameda Co., Calif.—

Plans were ordered prepared by county supervisors to straighten and grade Palomares Road in Dublin Canyon. Est. cost \$600. George Posey, county surveyor.

POSITION WANTED

STENOGRAPHER Bookkeeper, desires position with Architect or Contractor. Experienced in Building Construction. General Contracting and Architectural Work. Phone Fillmore 7211—Miss Madden

Contracts Awarded Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
256	Horn	Owner	4000
257	Moore	Wagner	47000
258	Petersen	Owner	3600
259	Roman	Owner	200000
260	Finck	Owner	2500
261	Greenbach	Owner	5000
262	Heghin	Owner	3000
263	Norman	Owner	1385
264	Grahn	Owner	14000
265	Cantrell	Owner	2000
266	Geheran	Oyen	8000
267	Borman	Owner	3540
268	Doelger	Owner	4000
269	Same	Same	4000
270	Standard	Owner	3750
271	Smith	Doelger	26600
272	Smith	Doelger	15200
273	Standard	Owner	7000
274	Standard	Owner	6000
275	Wooten	De Velbiss	2000
276	Wilcox	Clinton	2000
277	Epplers	Mullen	4000
278	McAfee	Owner	2500
279	Stein	Owner	25000
280	Masarie	Owner	5000
281	Robertson	Owner	4500
282	Sullivan	Owner	40000
283	Isaacs	Coburn	2000
284	Fitzgerald	Owner	2000
285	National Co	Clinton	4000
286	Lattig	Owner	3800
287	Pressmans	Portello	2000
288	Armstrong	Owner	2000
289	Voorhies	Owner	8000
290	McCarthy	Owner	4000
291	Leask	Owner	4000
292	McDonough	Owner	4000
293	Filippi	Owner	3000
294	Johnson	Owner	3500
295	Berr	Erickson	5000
296	Brown	Actna	2000
297	Gilbert	Owner	7680
298	National	Owner	1750
299	Petersen	Owner	4000
300	Wingard	Owner	5000

DWELLING
 (256) S ALEMANY 202 W Admiral; one-story and basement frame dwelling.
 Owner and Builder—J. Horn, 5044 Mission Street.
 Architect—Not Given. \$4000

ALTERATIONS
 (257) NE FIRST and Mission Sts.; alterations to install two elevators, fire escape and general improvements.
 Owner—C. C. Moore, Sheldon Bldg.
 Architect—F. H. Meyer, Underwood Bldg.
 Contractor—Geo. Wagner, 181 South Park St. \$47,000

FLATS
 (258) S MONTEZUMA 65 E Casa; 2-story and basement frame (two) flats.
 Owner and Builder—G. L. Peterson, 12 Montezuma St.
 Plans by Owner. \$3600

CHURCH
 (255) NW JUDAH ST. and Funston Ave.; three-story and basement class A church.
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St.
 Architect—W. D. Shea, 454 Montgomery Street. \$200,000

DWELLING
 (260) W 21st AVE. 100 N Cabrillo; one-story and basement frame dwelling.

Owner—H. W. Finck, 1602 Hayes St.
 Architect—Not Given. \$2500

ALTERATIONS
 (261) S POLSOM 165 W 4th St.; alterations for concrete walls.
 Owner—J. Greenbach, Hearst Bldg.
 Engineer—J. J. Little, 251 Peary St. \$5000

DWELLING
 (262) W 22nd AVE. 125 S Moraga; one-story and basement frame dwelling.
 Owner—Ben Heghin, 1245 24th Ave.
 Plans by Owner. \$3000

ALTERATIONS
 (263) 2843 24th ST.; alterations to dwelling for (2) flats.
 Owner—M. E. Norman, 3768 24th St.
 Architect—Not Given. \$1985

DWELLINGS
 (264) W TOCLOMA 180 S Blanken; four 1-story and basement frame dwellings.
 Owner and Builder—W. H. Grahn, 2965 Mission St.
 Architect—Not Given. each \$3500

ALTERATIONS
 (265) 346 22nd AVE.; alterations and additions to dwelling.
 Owner—A. J. Cantrell, 1290 Grove St.
 Plans by Owner. \$2000

DWELLINGS
 (266) E 28th AVE. 200 S Judah St.; two 1-story and basement frame dwellings.
 Owner—F. and H. Geheran, 547 9th Avenue.
 Architect—Not Given.
 Contractor—J. P. Oyen, 547 9th Ave. each \$4000

DWELLING
 (267) W BAYSHORE 75 N Thornton; one-story and basement frame dwelling.
 Owner—G. A. Borman, 440 Bayshore Blvd.
 Plans by W. H. Hummer, 5811 Mission St. \$2540

DWELLING
 (268) W TWENTY-NINTH AVE 200 N Santiago. One-story and basement frame dwelling.
 Owner—H. Doelger 300 Judah St., San Francisco.
 Architect—Not Given. \$4000

DWELLING
 (269) W TWENTY-SECOND AVE 25 N Judah. One-story and basement frame dwelling.

Owner—H. Doelger 300 Judah St., San Francisco.
 Architect—Not Given. \$4000

DWELLING
 (270) N OREFGA 82 W Twenty-first Ave. One-story and basement frame dwelling.
 Owner—Standard Bldg. Co., 218 Casteneda St., San Francisco.
 Architect—Not Given. \$3750

DWELLINGS
 (271) N SANTIAGO 90 W Forty-fifth Ave. Seven one-story and basement frame dwellings.
 Owner—P. A. Smith & Co., 638 4th St., San Francisco.
 Plans by H. Doelger.
 Contractor—H. Doelger, 300 Judah St., San Francisco. \$3500 each

DWELLINGS
 (272) W FORTY-FIFTH AVE 25 N Santiago. Four one-story and basement frame dwellings.
 Owner—P. A. Smith & Co., 638 4th St., San Francisco.
 Plans by H. Doelger.
 Contractor—H. Doelger, 300 Judah St., San Francisco. \$3800 each

DWELLINGS
 (273) W TWENTY-FIRST AVE 36 N Ortega. Two one-story and basement frame dwellings.
 Owner—Standard Bldg. Co., 218 Casteneda St., San Francisco.
 Architect—Not Given. \$2500 each

SERVICE STATIONS
 (274) SW SIXTEENTH AND POTrero Ave. Three one-story steel frame service station buildings.
 Owner—Standard Oil Co., 225 Bush St., San Francisco.
 Architect—Not Given. \$6000

REPAIRS
 (275) NO. 254 ARGUELLO BLVD. Repair fire damage.
 Owner—M. B. Wooten, 825 Geary St., San Francisco.
 Architect—Not Given.
 Contractor—C. D. De Velbiss, 269 Pine St., San Francisco. \$2000

ALTERATIONS
 (276) 5 UPPER TERRACE; alterations to dwelling.
 Owner—Mrs. J. Wilcox, 499 Buena Vista Terrace.
 Architect—Not Given.
 Contractor—Clinton-Stephenson Const. Co., 798 Monadnock Bldg. \$2000

ALTERATIONS
 (277) 886 GEARY ST.; alterations to bakery interior and exterior.
 Owner—Epplers Bakery, 886 Geary St.
 Plans by Contractor.
 Contractor—Mullen Mfg. Co., 60-80 Rausch Mfg. Co. \$4000

DWELLING
 (278) S JOOST 100 W Acadia; one-story and basement frame dwelling.
 Owner—P. McAfee, 771 Hanover St.
 Plans by Owner. \$3500

APARTMENTS
 (279) W 19th AVE. 198 N California; three-story and basement frame (12) apartments.
 Owner—Stein & Kreigl, 784 30th Ave.
 Plans by P. Krieg, 139 19th Ave. \$25,000

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DWELLING
(239) W 77th AVE. 375 S Hillside St., OAKLAND; 1-story 5-room dwelling and 1-story garage.
Owner and Builder—F. W. Conlogue, 2607 64th Ave., Oakland.
Architect—Not Given. \$3100

SCHOOL AND CONVENT
(240) SE COR. HERMOSA and Jacobus Aves., OAKLAND; three-story 150-room concrete school and convent.
Owner—College of Holy Names, 2036 Webster St., Oakland.
Architect—H. A. Minton, Underwood Bldg., San Francisco.
Contractor—Jas. L. McLaughlin Co., 251 Kearny St., San Francisco. \$350,000

RESIDENCE
(241) NO. 11 ALTA AVENUE, PIEDMONT; one-story 6-room frame residence and garage.
Owner—Winifred Brown Bell, 621 Blair Ave., Piedmont.
Architect—John Hudson Thomas, 505 Mercantile Bldg., Berkeley.
Contractor—W. B. Wells, 762 Ensensada Ave., Berkeley. \$7500

DWELLING
(242) NO. 707 KEY ROUTE BLVD., ALBANY; five-room dwelling and garage.
Owner—Ophelia E. Elliott, 2959 Linden Ave., Berkeley.
Architect—Not Given. \$3000

DWELLING
(243) 1429 WASHINGTON AVE., ALBANY; 5-room dwelling and garage.
Owner and Builder—J. V. Vila, 1207 Solano Ave., Albany.
Plans by Owner. \$3500

DWELLING
(244) 944 RAMONA AVE., ALBANY; five-room dwelling and garage.
Owner and Builder—J. P. Hubbard, 2632 Haste St., Berkeley.
Plans by Owner. \$3600

DWELLING
(245) N PENNINGMAN AVE. 200 East 38th Ave., OAKLAND; one-story 5-room dwelling.
Owner and Builder—Chas. Anderson, 2142 25th Ave., Oakland.
Architect—Not Given. \$7700

ADDITION
(246) CLAREMONT Country Club Grounds, OAKLAND; addition.
Owner and Builder—E. G. Campbell, care architect.
Architect—Miller and Warnecke, Financial Center Bldg., Oakland. \$4500

DWELLINGS
(247) 3516-3522 68th AVENUE, OAKLAND; two 1-story 5-room dwellings.
Owner and Builder—K. A. Johanson, 2832 76th Ave., Oakland.
Architect—Not Given. each \$2950

DWELLING
(248) 5709 ROSS ST., OAKLAND; one-story 6-room dwelling.
Owner—Jess Neighbor, 2309 Oregon St., Berkeley.
Architect—Not Given.
Contractor—J. C. Bigelow & Son, 150 Ardmore Road, Berkeley. \$5000

40 Weller Kraus 4000
41 Christian DeVight 10475
42 Same Sorensen 15123
43 Same Grady 3240
44 Same White 1700
45 Same Cobbledeck 497
46 Same Makin 2921
47 Same Coveney 2202
48 Same Jepsen 11030
49 Psi Pirfang 27500

PAINTING, ETC.
(33) NW DURANT and Telegraph Ave., Berkeley; painting and paper hanging for hotel building.
Owner—N. B. Douglass, Phelan Bldg., San Francisco.
Architect—Leonard H. Ford 1435 Harrison St., Oakland.
Sub-contractor—W. H. Bowers, 2801 E 16th St., Oakland.
Filed Feb. 27, '31. Dated Feb. 4, '31.
Progress payments of.....75%
Usual 35 days.....25%
TOTAL COST, \$955

EXCAVATING
(34) LOTS 1 to 6 Inc Blk 8, Daley's Scenic Park Tract, Berkeley; excavating for church building.
Owner—University Christian Church of Berkeley.
Architect—W. H. Ratcliffe, Jr., Mercantile Trust Bldg., Berkeley.
Contractor—Ariess-Knapp Co., 961 41st St., Oakland.
Filed Feb. 26, '31. Dated Feb. 24, '31.
1st of each month.....75%
Usual 35 days.....25%
TOTAL COST, \$800
Bond, \$500. Sureties, Aetna Casualty & Surety Co. Limit, without delay. Plans and Spec. filed.

RESIDENCE
(35) PTN LOTS 1 and 8 BLK L, Town of Pleasanton; general construction on 4-room frame residence.
Owner—Louise Douglas, Oakland.
Architect—Frank A. Hill, 1448 Webster St., Oakland.
Contractor—F. W. Conlogue, 2607 64th Ave., Oakland.
Filed and Dated Feb. 26, 1931.
When frame is up.....\$624.40
When ready for plaster.....624.40
When plastered.....624.40
When completed.....624.40
Usual 35 days.....624.40
TOTAL COST, \$3122
Bond, \$3122. Sureties, National Surety Co. Limit, 90 days. Plans and Spec. filed.

RESIDENCES
(36) PTN LOT 9 ELK I, Town of Pleasanton; general construction on duplex residences and garages.
Owner—Charles S. and Matilda W. Graham, Pleasanton.
Architect—Frank A. Hill, 1448 Webster St., Oakland.
Contractor—F. W. Conlogue, 2607 64th Ave., Oakland.
Filed Feb. 26, '31. Dated Feb. 25, '31.
When frame is up.....\$134.70
When ready for plaster.....134.70
When plastered.....134.70
When completed.....134.70
Usual 35 days.....134.70
Bond, \$5673.50. Sureties, National Surety Co. Limit, 90 days. Plans and Spec. filed.

ALTERATIONS & ADDITIONS
(37) PFTY of Claremont County Club Oakland; alterations and additions to residence.
Owner—Edw. C. Campbell, The Regillus, Oakland.
Architect—Miller and Warnecke, Financial Center Bldg., Oakland.
Contractor—E. P. Henderson, 6449 Chabot Road, Berkeley.
Filed and Dated Feb. 27, 1931.
Owner pays all labor and material bills when approved by contractor and upon architect's certificate.
On completion.....\$500
TOTAL COST not to exceed \$6225
Limit, 90 days. Plans and Spec. filed.

LATHING AND PLASTERING
(38) P. G. & E. SUBSTATION at Newark; wood lathing and interior plastering of seven cottages.
Owner—Pacific Gas & Elec. Co.
Plans by Eng. Dept. of Owner.
Contractor—Axel Sommarstrom, 109 Sunnyside Ave., Piedmont.
Filed Feb. 23, '31. Dated Feb. 21, '31.
On completion.....75%
Usual 35 days.....25%
Bond, \$1960. Sureties, Standard Accident Ins. Co. Limit, 35 days. Plans and Spec. filed.

GARAGE
(39) REAR of vacant lot west of house at 2209 Cedar St., Berkeley; general construction on garage.
Owner—S. Richmond, 2136 Dwight Way, Berkeley.
Architect—F. W. Thaxter, Oakland.
Contractor—F. W. Thaxter, 6452 Hill-gass, Oakland.
Filed March 2, '31. Dated July 15, '30.
When ready for roof.....\$300
When completed.....325
Usual 35 days.....325
TOTAL COST, \$950
Limit, 30 days.

ALTERATIONS
(40) 832 SHATTUCK AVE., Berkeley; general construction on alterations and addition to residence.
Owner—Earl V. Weller, 832 Shattuck Ave., Berkeley.
Architect—E. D. Cushing.
Contractor—Wm. J. Kraus, 1310 Marin Ave., Albany.
Filed March 2, '31. Dated Feb. 4, '31.
When first floor is laid.....\$800
When roof is on.....800
When plastered.....800
When building is completed.....800
Usual 30 days.....800
TOTAL COST, \$4000
Limit, 90 days.

MASONRY, ETC.
(41) LOTS 1 to 6 Inc. BLK 8, Daley's Scenic Park Tract, Berkeley (Scenic and Le Conte Aves.); masonry, stone and waterproofing for church building.
Owner—University Christian Church of Berkeley.
Architect—W. H. Ratcliffe, Jr., American Trust Co. Bldg., Berkeley.
Contractor—Victor De Vight, 1828 Milvia St., Berkeley.
Filed March 3, '31. Dated Feb. 24, '31.
1st of each month.....75%
Usual 35 days.....25%
TOTAL COST, \$10,475
Bond, \$10,475. Sureties, Aetna Casualty & Surety Co. Limit, without delay. Plans and Spec. filed.

(42) CARPENTRY WORK on above.
Contractor—Walter Sorensen, 2940 Piedmont Ave., Berkeley.
Filed March 3, '31. Dated Feb. 24, '31.
Payments Not Given.
TOTAL COST, \$15,123
Bond, \$14,998.

(43) SHEET METAL and heating on above.
Contractor—Grady Sheet Metal Wks., 2112 McKinley, Berkeley.
Filed March 3, '31. Dated Feb. 24, '31.
Payments Not Given.
TOTAL COST, \$3240
Bond, \$2988.

(44) ELECTRIC WORK on above.
Contractor—White Electric Co., 2305 Shattuck Ave., Berkeley.
Filed March 3, '31. Dated Feb. 24, '31.
Payments Not Given.
TOTAL COST, \$1700
Bond, \$1700.

(45) GLASS & GLAZING on above.
Contractor—Cobbledeck-Kibbe Glass Co., 307 Washington St., Oakland.
Filed March 3, '31. Dated Feb. 24, '31.
Payments Not Given.
TOTAL COST, \$497
Bond, \$497.

BUILDING CONTRACTS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
33	Douglass	Bowers	995
34	University	Ariess	800
35	Douglass	Conlogue	3122
36	Graham	Conlogue	5673
37	Campbell	Henderson	6225
38	P G & E Co	Sommarstrom	1960
39	Richmond	Thaxter	950

(46) PLASTERING and Lathing on above.
Contractor—Wm. Makin, 354 Hobart St., Oakland.
Filed March 3, '31. Dated Feb. 24, '31.
Payments Not Given.
TOTAL COST, \$2971
Bond, \$2996.

(47) PLUMBING on above.
Contractor—Coveney & Ehret, 1605 Bonita, Berkeley.
Filed March 3, '31. Dated Feb. 24, '31.
Payments Not Given.
TOTAL COST, \$2202.50
Bond, \$2273.

(48) EXCAVATING on above.
Contractor—Jepsen Bros., Berkeley.
Filed March 3, '31. Dated Feb. 24, '31.
Payments Not Given.
TOTAL COST, \$11,030
Bond, \$11,030.

RESIDENCE

(49) S CHANNING WAY 505 ft E of College Ave., Berkeley, general construction on 2-story frame stucco and brick veneer residence. Owner—Psi of Alpha Delta Pi, Berkeley.
Architect—Edwin L. Snyder, Berkeley
Contractor—H. C. Pfange, 5659 Ocean View Drive, Oakland.
Filed March 3, '31. Dated Feb. 25, '31.
When frame completed.....25%
When exterior and interior are brown coated.....25%
When completion filed.....25%
Usual 35 days.....25%
TOTAL COST, \$27,500
Limit, 115 days. Plans and Spec. filed.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded Accepted
Feb. 25, 1931—NO. 1030 KEELER Ave., Berkeley. Oswald W S McCall to Sam Steindel. Feb. 25, 1931
Feb. 28, 1931—LOT 110, Lakeshore Manor, Oakland. Harry W. Sargent to W K Owen. Feb. 27, 1931
Feb. 28, 1931—1528 VERSAILLES Ave., Alameda. John Adelfson to Adrian N Nelson. Feb. 26, 1931
Feb. 25, 1931—NO. 2805 OTIS DRIVE Emily Bay Island Ave., Alameda. Sidney J Dowling to Sid J Dowling. Feb. 25, 1931
Feb. 27, 1931—NO. 2721 BELLAIRE Place, Oakland. Minnie H Warren to whom it may concern. Feb. 25, 1931
Feb. 27, 1931—LOT 19 and Ptn Lot 3 Blk 1, Amended Map of Arlington Oaks, Berkeley. Harry A Mulvany to Geo S Rice. Feb. 26, 1931
Feb. 26, 1931—NO. 6121 GREEN ST. Emeryville. Westinghouse Elec & Mfg. Co to Cahill Bros. Feb. 26, 1931
Feb. 25, 1931—3400 GUIDO ST. Oakland. John S Flagg by Charles D Lyon, agent, to whom it may concern. Feb. 24, 1931
Feb. 26, 1931—89 VALLEY LANE, Berkeley. O M French to Self. Feb. 24, 1931
Feb. 25, 1931—LOT 5, A Lane in Spain, Oakland. Fred T Dooley to whom it may concern. Feb. 24, 1931
Feb. 25, 1931—SW 40 ft LOT 6 BLK 3, map of Broadmoor, San Leandro. E G Hoyt also Edw Gerald Hoyt and Helen S Hoyt to whom it may concern. Feb. 17, 1931
Feb. 25, 1931—2501 80th Ave., Oakland. C F Lodge to whom it may concern. Feb. 25, 1931
Feb. 24, 1931—LOTS 14 and 15 BLK A, Durant Manor, Oakland. Jas B Grubb to whom it may concern. Feb. 24, 1931
Feb. 24, 1931—1429 GIBBONS DR. C A Halme to Edwin W Dahl. Feb. 24, 1931
Feb. 24, 1931—N LINE E 14th ST. 43-24 ft W of 35th Ave, Oakland.

Emil M Berger to J B Petersen.....
February 19, 1931
Feb. 27, 1931—SE WEBSTER ST. and Grand Ave., Oakland. Harold Wilson vs W O Gage and R M Evans..... \$58.41
March 3, 1931—110 PALM DRIVE, Piedmont. Clara V and George A Lewis to whom it may concern.....
March 3, 1931—2209 CEDAR Street, Berkeley. S Richmond also known as Sam Richmond to F W Thaxter.....
March 3, 1931—LOT 2 BLK 7, 1000 Oaks, Berkeley. B ReinSHAUS to whom it may concern.....
February 27, 1931
March 2, 1931—3539 JORDAN RD, Oakland. John Fleming to whom it may concern.....
February 25, 1931
March 2, 1931—LEP SCIENCES Bldg. Campus of the University of California, Berkeley. The Regents of the University of California to J L Davidson Co, Ltd.....
February 24, 1931
March 2, 1931—4297-6295 TRENOR St, Oakland. George and Sofie Breuer to H Koimodin.....
Mar 2, 1931
March 2, 1931—LOTS 18 and 19 Blk 12, Map No 8 Regents Park, Albany. H G Headrick to Self.....
February 28, 1931
March 2, 1931—LOT 17 BLK C-3192, Pothill Park, Oakland. F B Lazebny to James Moyle.....
Feb. 25, 1931

LIENS FILED

ALAMEDA COUNTY

Recorded Amount
Feb. 26, 1931—LOT F-152, Fairway Estates Oak Knoll, Oakland. Chas A Cain vs Theo R Dienger.....\$42.50
Feb. 26, 1931—510 63rd ST, Oakland. The Pacific Painting Co vs James and Lottie Marley.....\$61
Feb. 24, 1931—663 HILGIRT CIRCLE Oakland. D W Durant vs Lorine B Guazzo (also known as Mrs L B Britt).....\$142.80
Feb. 27, 1931—NE PARK BLVD and March 2, 1931—SE TENTH AVE, 120 NE East 22nd St, Oakland. M Miller vs Umberto and Margarete Cavallo also known as M Cavallo.....\$610
March 2, 1931—NE BROOKLYN AVE and Wesley Ave, Oakland. V B De Carlo vs Louis and Andrew Speranco, Clementina and F Brunetto.....\$181.55

RELEASE OF LIENS

Alameda County

Recorded Amount
Feb. 26, 1931—NE TAYLOR AVE and Caroline St, Alameda. Lee Hardware Co, Inc, \$114.51; Pacific Coast Aggregates, Inc, \$324.74; H C Stoeckle (as H C Stoeckle Co), \$307.40; Powell Bros, Inc, \$778.14; National Lead Co of California, \$253.41 to Aileen Marie Roberts; M F Hrubanick and Mary Dickson
Feb. 26, 1931—NE TAYLOR AVE and Caroline St, Alameda. H E Rice, \$564; E H Craighead, \$564 to Aileen Marie Roberts Imly Aileen

Marie Hrubanick also known as Aileen Marie Hrubanick.....
Feb. 26, 1931—NE TAYLOR AVE and Caroline St, Alameda. Ailed Josephson to Aileen Marie Roberts Imly Marie Hrubanick.....\$151.25
Feb. 26, 1931—NE TAYLOR AVE and Caroline St, Alameda. Carlstrom Bros & Person to M F Hrubanick and Aileen Marie Moore.....\$400
Feb. 26, 1931—NE TAYLOR AVE and Caroline St, Alameda. Carl E Strom, \$342.70; T P Hogan Co, \$759.27 to Mary Dickson
Feb. 26, 1931—NE TAYLOR AVE and Caroline St, Alameda. Oakland Sheet Metal Supply Co to M F Hrubanick.....\$193.73
Feb. 24, 1931—LOT 13 and ptn lot 14, Peralta Ave Tract, Oakland. The Stockton Pain Co doing business as Mission Paint Co to Emil and Lina Thiemann.....\$91.45
March 2, 1931—SW PACIFIC AVE and Webster St, Alameda. Makin & Kennedy to Otto A Leydecker, N J Lindstrom, Melrose Steel Co, Inc, Union Oil Co of California.....\$408.18
March 2, 1931—SW PACIFIC AVE and Webster St, Alameda. E K Wood Lumber Co to Mildred H and Otto A Leydecker, Melrose Steel Co, Inc, Union Oil Company of California.....\$205.26
Feb. 28, 1931—LOT 15 BLK 4, Berkeley Square, Berkeley. T P Hogan Co to J Harry Smith.....\$389.74
Feb. 25, 1931—LOT 15 BLK 4, Berkeley Square, Berkeley. French McDonald to Arthur E and Jessie Longmate.....\$75.90
Feb. 28, 1931—LOT 15 BLK 4, Berkeley Square, Berkeley. Edward W Eroderick to A E, Arthur E, and Jessie J Longmate, J Harry Smith.....\$120.65
Feb. 25, 1931—LOT 15 BLK 4, Berkeley Square, Berkeley. Mastercraft Tile and Roofing Co to A E Longmate, J Harry Smith.....\$400
Feb. 28, 1931—LOT 15 BLK 4, Berkeley Square, Berkeley. C L Fessenden to A E Longmate.....\$49.22
Feb. 28, 1931—LOT 15 BLK 4, Berkeley Square, Berkeley. Pacific Hardwood Flooring Co, \$55.35; J H Green, \$428.44; Bertel Mork, \$183; to Arthur E and Jessie J Longmate, J H Smith
Feb. 26, 1931—NE TAYLOR AVE and Caroline St, Alameda. Arnold F Kramm, \$335.50; M F Hrubanick, \$2545; Ever-Ready Plumbing Co, \$683.70; Thos O Seffer, \$128; A G Burns, \$146.50 to Aileen Marie Roberts
Feb. 27, 1931—LOT 4 BLK 2031B, map No 1, Blake Tract, Berkeley. Chas M Fleischer to E M and Marian A Norton.....\$207.03

CANCELLATION OF CONTRACT

ALAMEDA COUNTY

CANCELLATION of Contract filed February 19, 1931.
Owner—E. P. Melville, Architect—Not Given.
Contractor—G. C. and F. E. Warn, doing business as Warn Bros.
Filed Feb. 28, '31. Dated Feb. 23, '31.

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San Francisco

HOUSE and garage, \$6800; 569 35th St. owner, A. Bastonso; contractor, P. Cenro.
 RESIDENCE and garage, \$5000; 345 33rd St.; owner and builder, H. C. Prince, 3800 33rd St., Sacramento.
 RESIDENCE and garage, \$6500; 421 36th St.; owner and builder, C. Thompson, 2725 T St., Sacramento
 RESIDENCE and garage, \$4500; 401 41st St.; owner, Floyd Pyle, 1801 41st St., Sacramento; contractor, P. Opdyke, 1506 F St., Sacramento
 SERVICE station, \$1350; 2431 8th St.; owner, W. Figaro; contractor, J. D. Hayworth.
 ADD floor, \$1000; 2407 Stockton Blvd.; owner and builder, P. H. Houston, premises.

RESIDENCE and garage, \$3000; 2664 16th St.; owner, J. McCarthy, 2505 T St., Sacramento; contractor, J. A. Saunders, 1045 45th St., Sacramento.
 DWELLING and garage, \$5000; No. 701 46th St., Sacramento; owner, Mr. Homenway, Premises; contractor, F. C. Stabenaw, 3210 6th Ave., Sacramento.
 GENERAL repairs, \$2000; No. 623 J St., Sacramento; owner, E. Walsh, Premises; contractor, H. W. Robertson, 2532 33rd St., Sacramento.
 DWELLING and garage, \$5000; No. 2976 Govan Way, Sacramento; owner, G. W. Lawrence, 53 Land Drive, Sacramento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded	Accepted
Feb 27, 1931—N 45th FT Lot 27 Smith Tract No. 4. Richard C Mackey to whom it may concern.....	February 26, 1931
Feb 27, 1931—LOT 9 Welch Tract. Earl and Ella M Long to whom it may concern.....	Feb 20, 1931

LIENS FILED

SACRAMENTO COUNTY

Recorded	Amount
Feb 21, 1931—N 60 FT. LOT 1, 1, J, 8th and 9th Sts., Sacramento. Jos Corey vs Title Insurance & Guarantee Co and Progressive Trading Co	\$21

BUILDING PERMITS

FRESNO

ALTERATIONS and additions, \$2500; No. 1152 Fulton St, Fresno; owner, San Francisco Floral Co., 1152 Fulton St., Fresno.
 ALTERATIONS and additions, \$1000; No. 3333 Balch St, Fresno; owner, Roy W. Richter, Premises.
 DWELLING, \$3950; No. 1485 Del Mar Ave., Fresno; owner, H. P. Nelson, Premises.
 RESIDENCE and garage, \$5950; 415 Terrace Ave.; owner and builder, Taylor-Wheeler, Inc., Power Co. Bldg., Fresno.
 STORAGE room, \$1400; 2102 Elm Ave. owner, Frank Brown, premises; contractor, Wm. Lal Kam, Jr.
 RESIDENCE, \$4500; 1004 Clinton Ave.; owner and builder, A. R. Eklund, 1322 Andrews, Fresno.
 DWELLING and garage, \$400; 315 W Olive Ave.; owner and builder, C. N. Copey, 525 Harrison, Fresno.
 DWELLING and garage, \$7950; 349 Terrace Ave.; owner and builder, Taylor-Wheeler, Inc., Power Co. Bldg., Fresno.
 DWELLING and garage, \$4000; No. 617 Cambridge St., Fresno; owner and contractor, A. F. Lambert, 1576 Poplar St., Fresno.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Feb. 24, 1931—Accepted Feb. 24, 1931—LOTS 15 AND 16 BLK 8, E Park Terrace, Fresno. A F Lambert to whom it may concern..... Feb. 24, 1931

STATE OF CALIFORNIA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF HIGHWAYS

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on March 25, 1931, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor, to which special reference is made, of portions of State Highways, as follows:

Monterey County, between two miles north of Salinas and the northerly boundary (V-Mon-2-J), about eleven and one-tenth (11.1) miles in length, to be graded and paved with Portland cement concrete.

Monterey County, (V-Mon-56-G), a reinforced concrete bridge across Garapata Creek about 16 miles south of Monterey, consisting of one 150 foot arch span and five 25 foot girder spans on concrete abutments and bents and about .25 of a mile of roadway to be graded.

Los Angeles County, between N Bailey's Ranch and Neenach School (VII-LA-59-A), about seven and five-tenths (7.5) miles in length, to be graded and oiled.

San Diego County, between La Posta Creek and Campo Road Junction (VII-S D-12-F), about eight and eight-tenths (8.8) miles in length, to be paved with Portland cement concrete.

Proposal forms will be issued only

to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works. Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office, and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.

The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed for the best interests of the State. DEPARTMENT OF PUBLIC WORKS, DIVISION OF HIGHWAYS,

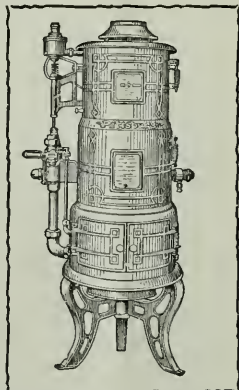
C. H. PURCELL,
 State Highway Engineer.
 Dated February 25, 1931.

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BUILDING *and* ENGINEERING NEWS

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547 Mission Street

SAN FRANCISCO, CALIF., MARCH 14, 1931

Published Every Saturday
Thirty-first Year., No. 11



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Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

Issued Every Saturday

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Thirty-first Year, No. 11

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J. E. ODGERS, Advertising Manager

All communications for publication should be addressed to the Editor.

Building and Engineering News will be sent to subscribers until ordered stopped and all orders to discontinue must be sent in writing to this office.

BILL REGULATING WAGES ON FEDERAL BUILDING PROJECTS

The bill (S. 5944) relating to the rate of wages for laborers and mechanics employed on public buildings of the United States and the District of Columbia to be paid by contractors and sub-contractors, as passed by the Senate and the House, and approved by the President March 3, reads as follows:

"Be it enacted, etc., That every contract in excess of \$5,000 in amount, to which the United States or the District of Columbia is a party, which requires or involves the employment of laborers or mechanics in the construction, alteration, and/or repair of any public buildings of the United States or the District of Columbia within the geographical limits of the states of the Union or the District of Columbia, shall contain a provision to the effect that the rate of wage for all laborers and mechanics employed by the contractor or any sub-contractor in the public buildings covered by the contract shall be not less than the prevailing rate of wages for work of a similar nature in the city, town, village, or other civic division of the state in which the public buildings are located, or in the District of Columbia if the public buildings are located there, and a further provision that in case any dispute arises as to what are the prevailing rates of wages for work of a similar nature applicable to the contract which can not be adjusted by the contracting officer, the matter shall be referred to the Secretary of Labor for determination, and his decision thereon shall be conclusive on all parties to the contract; Provided, that in case of national emergency the President is authorized to suspend the provisions of this act.

"Sec. 2. This act shall take effect 30 days after its passage, but shall not affect any contract that may have been entered into pursuant to invitations for bids that are outstanding at the time of the passage of this act."

TO STANDARDIZE RED CEDAR SHINGLE

At the request of the Red Cedar Shingle Bureau, there will be a general conference of producers, distributors and users of red cedar shingles at the Olympic Hotel, Seattle, March 17, to consider the adoption of a commercial standard for the product. It is announced by Harry H. Steidle, of the U. S. Department of Commerce, Division of Trade Standards.

All those interested in the manufacture, sale and use of wood shingles are invited to be present in order that the standard as finally adopted may be acceptable to all directly concerned.

ARCHITECTURAL FEE DENIED OAKLAND MAN

J. W. Olver, Eureka Mill and Lumber Company employee, lost his suit in Judge Wise's court in Oakland for a \$500 architectural fee in connection with plans for a \$50,000 reinforced concrete apartment and store building in East Oakland when a non-suit was granted based on Olver's failure to comply with the Architectural act. The action, which was brought by the American Credit Service, was contended by the State Board of Architectural Examiners.

Olver was cited before Assistant District Attorney Perkins and warned to discontinue offering architectural service. The courts have repeatedly held that claims for architectural services can not be collected when filed by uncertificated persons.

INJUNCTION IS REMOVED AGAINST STEEL ERECTORS

An injunction obtained by the International Association of Bridge, Structural & Ornamental Iron Workers restraining the Structural Steel Board of Trade, New York, from employing other than union labor was reversed Feb. 27 by the Appellate Division of the New York Supreme Court.

The injunction had been granted Jan. 3, 1931, by Justice Black, of the supreme court, pending action on a suit argued Dec. 11, 1930, in which the union ask \$2,500,000 from the board, alleging violation of a contract dated May 12, 1930.

In reversing the injunction the Appellate Division contends that no contract exists. The contract in question provides that the eighteen contracting firms, members of the Structural Steel Board, use union labor only, after 25 years of open-shop work.

YUBA-SUTTER EXCHANGE FORMED

E. A. Hunn has been elected president of the newly formed Yuba-Sutter Builders' Exchange, comprising the general and sub-contractors and material dealers operating in Yuba and Sutter counties.

Other officers are: Vice-president, Claude Grigsby; secretary, J. W. Robinson; treasurer, Ernest Zwanck; directors, Frank M. Booth (chairman); I. C. Evans, Ernest Bell, W. C. Burroughs, C. Fesler and Carl Svendsen.

The directors will work out plans for the protection of the interests of the contractors and for the promotion of the building industry and will have a report to make at a general meeting that has been set for March 17.

PLANS ADVANCING ON TUNNEL ROAD

The Alameda county supervisors are ready to start acquiring the property adjoining the proposed new Tunnel Road through Chabot Canyon, according to Redmond C. Staats, county supervisor. When the City of Oakland passes a necessary resolution enabling the purchase of certain Oakland properties, the supervisors will proceed, he says.

"Funds for the purchase of lands and construction work are all to be supplied without additional taxation on property owners if present plans are carried through," says Staats. "For several months past, the county has been creating a sinking fund made available from savings effected on contracts that have been fulfilled at great savings due to low market prices on materials and labor."

"Aside from this source of income the county has also added to the fund from income derived from the State gas tax funds allowed the county. Actual construction will be financed, according to present plans, by bonds issued that are to be paid off by income derived from the State gas tax fund. In addition to these funds a sum of \$300,000 has been voted by the State Highway Commission to be matched by the county."

At no point on the new Tunnel Road will the grade exceed 5.15 per cent and the road bed will be 100 feet wide. There will be 17 roads leading to and from the main highway into Berkeley and Oakland.

Ventilation for the new tunnel is being studied by the Federal Government.

SENATE APPROVES BAY BRIDGE BILLS

Two bills materially affecting the San Francisco-Oakland Bay bridge project were favorably voted out last Tuesday by the Senate Roads and Highways Committee.

One provides for an appropriation of \$650,000 for immediate engineering operations, drafting of plans and specifications and similar preparatory work. This money is to be returned to the State at 4 per cent interest from the first funds obtained from the sale of toll revenue bonds issued by the California Toll Bridge Authority.

The second bill provides that the State may pay for maintenance of the bridge out of gasoline tax funds, thus placing it on completion into the State highway system.

The committee also favorably passed out a bill which provides a sinking fund for Golden Gate bridge and highway district, for interest payments and strengthens the bond issue conditions in accordance with the recommendations of bond purchase firms.

ECONOMICS OF BITUMINOUS ROAD CONSTRUCTION CITED

(By Bernard E. Gray, Highway Engineer, The Asphalt Institute.)

The primary object of a transportation system is the prompt and easy movement of persons and goods from one place to another. The degree to which this movement is open to all persons, and within their ability to pay, is the measure of utility of such a system. The development of transportation facilities is the development of civilization, and a further progress depends upon the increasing availability of dependable means of transport. Centuries passed before man had improved his methods from foot to horse and then from horse to steam engine, when, abruptly, the invention of the gasoline motor and the subsequent development of a vehicle which did not require fixed tracks for mobility, brought about more changes in forty years than in all previous history combined.

Now while this latter day vehicle does not require tracks, it does require (for the present at least) a travel path on which to run, and obviously the greater the mileage of such paths, the greater the usefulness of the vehicle. The extension of these travel paths, their upkeep and repair, is the largest single item of public officials in the United States today. It must be self evident that insufficient progress is being made in carrying out this duty, otherwise there would not be so much discussion and argument on the subject.

Principal Materials

Several principal materials enter into modern road construction, and the commercial phases have all too frequently had a biased effect, when choice of surface was under consideration. In the few remarks which the writer has to make, he is talking primarily as an engineer and with twenty years of administration experience in highway building in mind. It is his firm belief that the public does not care a hoot from what a road is built, so long as it is smooth, dustless, mudless and non-skid, and in that condition the whole year around. Black, white, red or green, it is all the same to him so long as he can go the way he wants to go—quickly and comfortably, and at minimum cost. There are several angles to the economics of bituminous construction, but it is the low cost and stage development phases emphasizing salvage, and utilizing natural conditions with which this paper will deal.

Reference has been made to the steam engine and for purposes of comparison, it may be well to examine into the attitude of those charged with the design, construction and maintenance of the two kinds of travel paths which form our present day arteries of traffic, the railroads and highways. In the first group we have had over a hundred years of practical experience, during which time every conceivable type of road-bed has been tried. It is not the purpose of this short paper to develop and changes in that period. Suffice it to say that present day practice in this group calls for the flexible type of road-bed, designed for the reasonably near future only, and kept in condition thru constant maintenance. It is pertinent to observe that railroad construction and maintenance are ever adjusted to the stern necessity of keeping expenditures at less than the earnings.

Character of Roadbed

In the second group, that of highways—there is not apparent the same unanimity of opinion as to the char-

(Paper presented at the Convention of The Crushed Stone Association, St. Louis, Mo., January 10, 1931.)

acter of the roadbed desired. This confusion obtains for two reasons: one, the lack of continuity in highway administration, and the other, because of the separation of operation from maintenance of way. There is a growing conviction, however, that expenditures are not producing the degree of highway transportation facilities which should be the case, and it is evidencing itself in the latest increase in mileage of the so-called low cost surfaces which has taken place during the past three years.

There are, of course, many factors which bear upon the situation, but certain fundamentals are well established. They may be listed as follows:

1. A highway system which does not serve all of an area, and everywhere in the area, all the year around, is not functioning completely and the neglected areas and persons are justified in making a loud and mighty protest.

2. That while ten years ago, the building of a new improved surface usually was followed by marked increased traffic, such is not always the case today. In fact there is frequently a temporary decrease, because with the construction of parallel routes, there follows a greater density of traffic. The rate of increase in population and motor vehicles will be markedly less in the next twenty years than in the past twenty years, and ample opportunity will be afforded the highway builder so to plan his development to keep abreast of changing conditions.

3. Certain trunk highways on which traffic flow is already well defined, should be surfaced to take care of such traffic, with reasonable provision against future increase, but all other roads should be improved only in accordance with present day traffic, and with a view to stage development as the future may require.

4. The adoption of a single type of surface arbitrarily over an entire area, regardless of local conditions and materials is wrong and such a policy will defeat the end sought.

5. The first great outpouring of public funds in the way of bond issues is reaching its peak, and that easy, painless gasoline tax is also reaching such limits as to bring protest, all of which points to the necessity for so planning further developments as to come within current revenues.

6. The improvement in the motor vehicle, notably the pneumatic balloon tire, has had a marked effect on the design requirements for highway surfaces, and the data obtained from tests made several years ago with hard and solid tires is of comparatively little value today.

7. Highway design should primarily emphasize drainage, width, alignment, grade, and surfacing in the order named. Drainage cannot be over estimated, for in spite of all that has been said and written, this important item is continually overlooked and roads have failed unnecessarily because of lack of attention in this respect. Width is placed second because width, properly proportioned to traffic, eliminates concentration of loadings and allows sufficient lateral dispersion so that thinner surfacing will be effective

than would be the case if all vehicles ran in the same track. Alignment is more important than grade, and by rolling the grade within proper vertical curve limits as to visibility, more economical earth work can be accomplished, also easier drainage. It is believed that in many instances, too much money has been spent in building one per cent to four per cent grades, when short sections of steeper grades would be equally effective. Present day high powered machines are not adversely affected by such design. If all the foregoing requirements are properly met, the last item, that of surfacing,—becomes much simpler and cheaper.

8. Single lane pavements are to be avoided as dangerous. Taking into consideration the fundamentals outlined, it is believed that more than 80 per cent of the total mileage of highways in the United States can be improved most economically and satisfactorily with bituminous surfaces. It is further believed that this mileage may be improved largely with the low cost types, and that while certain high types of construction will of necessity continue on a considerable mileage, the one outstanding field of endeavor will be found in providing surfaces to cost around \$5,000 per mile. The bituminous types are the only ones which lend themselves satisfactorily to this price range and, at the same time, provide wide and safe travelled ways.

Surface Design

For years the design of surfaces was made with a view to obtaining a smooth surface, and care of the worst condition, and then arbitrarily to carry it through the entire length of the project, without regard to the varying subgrade conditions. It is advanced that the correct method of design is to grade and drain a proper roadway width and then to stabilize the surface through cumulative additions of crushed stone or gravel, to such depths as are required. This may be eight inches at one point and two inches at another, thereby utilizing to the fullest extent the inherent subgrade values. Such practice produces uniformity of surface capacity, a characteristic of the greatest importance, because all subsequent stage development of the surface then can be estimated accurately and coordinated with the growth of traffic.

The mileage of highways which have natural subgrades capable of supporting light to medium traffic during eight to ten months of the year is surprisingly large. The few years of frost and rainy weather make them sometimes impassable with the result that the material is condemned as bad and the condition is endured until funds are available to lay a heavy pavement. In many cases the situation could be taken care of by the placement of a relatively thin crust of stone, worked into the subgrade by a grader, and followed with a bituminous treatment to waterproof the surface and reduce abrasion. Such treatment has proved itself many times, but one example in the speaker's own experience will illustrate the point. U. S. Route 51 crosses the Shenandoah Mountains from Virginia into West Virginia. In the latter state the road was graded and drained, but funds were not available for paving. During eight months of the year the red clay shale was

good but dusty and during the winter and spring it rutted and broke up badly. To relieve the dust it was given an asphalt treatment of 5 gal-gon per square yard, covered with 25 pounds of crushed stone chips, and costing \$1,200 per mile. The following winter the break-up was less in area and of one month's duration only.

The following spring the surface was lightly scarified, the stone worked into the subgrade, and a new treatment given. The end of the third year of such treatments found a surface good for all the twelve months, at a total expenditure of \$4,000 a mile, all obtained from current revenues, and the road carrying a traffic of 800 vehicles daily, including many trucks and the buses of one bus line. The county roads leading to the state highway were rutted six to ten inches deep and they had a traffic count of less than a hundred vehicles per day. Standing at the junction and watching a car approach at fifty miles an hour on the state road, slow to a halt on the county road, change gears, and grind away at ten miles an hour through the ruts, it was hard to believe that the only difference between the two surfaces is a thin crust of stone and bitumen less than two inches thick. Such treatments are but one of many types and kinds. They are not offered as panaceas for all road ills but they will answer the need in many situations.

Salvaged Surfaces

We all have seen thousands of miles of good stone and gravel roads ripped up, thrown away, and a new pavement constructed at a cost of \$20,000 to \$30,000 per mile, when the old surface could have been salvaged with bituminous types, and thereafter maintained, all at a total cost less than the fixed charges on the new construction. Someone challenges and asserts that the traffic may exceed the carrying capacity of the bituminous treatment, but the answer is that the traffic in a majority of cases has less than the capacity of a good and increasing slowly. A study of traffic census records quickly will prove to any one's satisfaction that, outside of urban areas, the majority of roads carry less than this amount and that such will be the case for an indefinite period in the future. As long as other roads are without any improvement, no light or medium traffic artery is entitled to the expenditure of such sums.

There is needed a different attitude if mind on the part of some road builders, who look upon low cost surfaces as merely temporary expedients. The method which will produce good service at the lowest cost per vehicle per year is the one to use. If one road surface cost \$20,000 a mile and \$200 per annum maintenance, with a traffic of 500 vehicles daily, the cost per vehicle is \$3.60 per year. If a low cost surface required \$5000 a mile with \$500 maintenance, the cost per vehicle is \$1.80 per year and, in addition, the surface is becoming conditionally better. Let anyone think that \$500 per year is an inadequate maintenance figure for the low cost types, let it be said that surface treatments seven years old frequently are found, and that a three to five years' interval is common with traffic running in the 1000 vehicles per day. A low cost surface is just as much a fixed and permanent part of a properly developed highway transportation system as the most costly type that has ever been devised.

Of course there has been a reason for our failure to develop low cost types earlier on a large scale and that is because of our lack of knowledge. There is still much to be learned. The United States Bureau of Public Roads, the state highway departments and associations like our own, through close co-operative effort in carrying

on said studies and other research, are the agencies contributing to better understanding and knowledge. Some of the earlier bituminous treatments were not satisfactory because of lack of skill in building, or insufficient knowledge of material behavior. The speaker recalls difficulties in surface treatments on coarse, irregular gravels due to pot-holing with resulting roughness and much patching. The dragged surface treatment or the thin mixer-in-place wearing course however, eliminated the difficulty.

Data Available

The need today is for a simple, accurate presentation of the extensive data already available and its dissemination to road building authorities with all the articles which have appeared on the subject, it would seem that this had already been done, but it is a fact that, over large areas of the country and particularly in the political sub-division within its states, insufficient knowledge of correct procedure prevails at the present time. The existence of a rough and uneven bituminous surface on any road is an indication of such lack of knowledge, because, with present technique, there is no excuse for such a condition. You as stone producers may ask, "But where do we come in when pavement thickness is reduced?" Is it better to build six miles of surface, with further additions in thickness through stage development, or is it better to build one mile? Is it better to have a steady, continual growth, or is it better to have peak loads one year and nothing the next?

With the greater use of low cost bituminous surfaces, there is coming a more rapid development of mechanical equipment for handling the operations. Within the near future it will be possible to place surfaces with promixed-stone and bitumen, or surface treatments of various kinds, upon stabilized subgrades of one kind or another, both new and old, at rates of one, two and three miles a day of finished road surface, built under traffic, and at costs which will be within the reach of every pocketbook. At such rates of operation it will be possible to let to contract single projects of from twenty to one hundred miles in length, thus affording a more attractive field to contractors, utilizing modern equipment, scheduling shipments, handling aggregates by conveyor, with machine spreading and finishing on the road surface, and with almost overnight transformation of dusty or muddy roads, into smooth, non-skid highways. Does it sound like a fairy story? Perhaps. But the cold, hard arithmetic of the situation makes such construction the only way, if there is to be obtained a real highway transportation system in this country, before the youngest school boy now in the first grade becomes a graybeard of ninety.

FRESNO ENGINEERS NOMINATE OFFICERS

Candidates for various offices of the organization were nominated by the Fresno Engineer's Club at a luncheon meeting in the Hotel Fresno last Wednesday. The election will be held March 11, according to J. Allan Hall, president of the club.

F. E. Twining, Mark Webster, C. F. Gilcrest and A. Segel were nominated for president; Lee Duncan, Roy Hall and H. H. Wheaton for vice-president; J. H. McElroy for secretary-treasurer, and William Tucker, R. D. Likely, H. G. Minor, Charles Anger, E. G. Stahl, Al White, Harold Chutter and Jean L. Vincenz for members of the board of directors of which there are five.

PRIVATE ARCHITECTS PLAN STATE WORK

To speed construction of public buildings as a means to bettering business and relieve unemployment, Governor James Rolph, has appointed architects in private practice throughout the state to prepare plans and specifications for a number of projects included in the institutional building program.

The appropriation bill providing funds for the work was passed by the Legislature at the request of Governor Rolph before the legislative recess. The employment of private architects will make plans available for contract many months in advance of the time that would be required had all these plans to be prepared by the Division of Architecture.

Architects who have thus far been appointed and the buildings for which they are preparing plans follow:

Frederick H. Meyer, San Francisco, hospital, Veterans' Home, Yountville; appropriation, \$500,000.

Fred L. Swartz and C. J. Ryland, Fresno; library, Fresno State Teachers' College; appropriation, \$125,000.

Charles F. B. Roeth, Oakland; primary unit and dining room, California School for Deaf, Berkeley; appropriation, \$242,000.

Ralph Wyckoff, San Jose; training school, San Jose State Teachers College; appropriation, \$170,000.

Franklin C. Geogreson, Eureka; training school, Humboldt College, Arcata; appropriation, \$170,000.

Chester Cole, Chico, library and class rooms, Chico State Teachers College; appropriation, \$111,000.

S. Heiman, San Francisco; additional class room, State Teachers College, San Francisco; appropriation, \$100,000.

Martin Sheldon, San Francisco; ward building, Mendocino State Hospital; appropriation, \$90,000.

Chas. E. Perry, Vallejo; laundry building, Mendocino State Hospital; appropriation, \$60,000.

Guy Koepff, Salinas; armory, Salinas; appropriation, \$35,000.

Wm. E. Edwards, Santa Barbara; training school, Santa Barbara Teachers College, Santa Barbara; appropriation, \$70,000.

Peter L. Sala, Stockton; remodel kitchen, etc., Stockton State Hospital; appropriation, \$65,000.

Russell G. Deane, Lappe, Oakland; dairy unit, Preston School; appropriation, \$49,000.

Chas. F. Deane, Sacramento; California National Guard, Yuba City Armory; appropriation, \$25,000.

Wm. H. Wheeler, San Diego; gymnasium and pool, San Diego State Teachers College; appropriation, \$155,000.

Frederick H. Eley, Santa Ana; superintendent's cottage and ward bldg., Narcotic State Hospital, Spadra; appropriation, \$55,000.

G. Stanley Wilson, Riverside; dairy unit, Patton State Hospital; appropriation, \$25,000.

Gilbert Stanley Underwood Company Ltd., Los Angeles; ward building at the farm, Norwalk State Hospital; appropriation, \$75,000.

Walker and Eisen, Los Angeles; dairy unit and patients farm cottage, Pacific Colony, Spadra; appropriation, \$75,000.

Bennett and Haskell, Pasadena; National Guard Armory, Pasadena; appropriation, \$50,000.

The Bureau of Supplies and Accounts, United States Navy, Washington, D. C., has issued a January, 1931, edition of the "Index to Specifications Issued by the Navy Department for Naval Stores and Material." This index covers specifications for all types of supplies used by the Navy.

THE OBSERVER

What He Hears and Sees on His Rounds

The supervisors of Kern county, by a vote of three to two, rejected a proposal to issue bonds of \$2,500,000 to finance road construction throughout the country. The measure was proposed with a view to providing work for the unemployed.

Determined opposition to financing a \$2,750,000 bond election to finance construction of a municipal electric system in Tulare, Calif., developed at a mass meeting attended by nearly 2000 voters, last Monday night.

Passage of a bill by the legislature to set up a uniform plumbing bill is favored by H. B. Poote, sanitary engineer for the Montana State Board of Health. Poote said that a law is needed which will be applicable to the entire state. The large communities are not affected so much by bad plumbing and most of the trouble that has come to the attention of the board of health has been due to inadequate plumbing in smaller localities.

Oakland is getting new prices for paving, according to Walter N. Prickstad, city engineer. Bids were recently opened to improve a portion of Masonic Avenue, the engineer's estimate being \$29,935. The low bid was \$26,170, or \$3,000 under the estimate. Outside contractors are bidding on Oakland street work, the engineer says, which indicates that "paying rick" in Oakland no longer exists.

H. W. Webber, president of the Webber Construction Company of Crescent City, "has gone into bankruptcy in order to protect his creditors," according to newspaper reports from the Del Norte section. Webber, it is reported, attributes his failure to the business depression and the lack of contract work in the northern section of the state.

The Los Angeles County Board of Supervisors has adopted an ordinance requiring that all bonds accompanying bids for improvement work shall be surety company bonds, it is announced by Miss Mame E. Beatty, clerk of the board.

Palo Alto is considering adoption of the Uniform Building Code as prepared by the Pacific Coast Building Officials' Conference. The code has already received the endorsement of the Board of Public Works, the municipal committee on public works and is now before the city council. L. Harold Anderson, building inspector, advocated its adoption.

The Utah Plumbing and Heating Contractors' Association is making an effort to introduce in that state what is known as the Hoover Code, under which the State Board of Health will be authorized to establish rules governing the practice of plumbing. Another bill it is proposed to have introduced to the state legislature, now in session, would require railroad companies to provide better sanitary facilities at their depots. It aims, in particular, at the poor accommodations often found in the country districts.

A bill has been introduced in the Illinois Legislature to prohibit employers from engaging the services of any one not a citizen of that state. Drastic penalties are attached for the

failure to strictly comply with its provisions. Employers generally are opposed to the bill.

Accidents at highway grade crossings, according to reports to the Interstate Commerce Commission, totaled 4,390 for the first eleven-month period of 1930, a reduction of 988 compared with those for the same period in 1929. Fatalities resulting from such accidents totaled 1,848, a reduction of 400 compared with those for the same period in 1929, while persons injured totaled 4,932, a reduction of 1,133. For the month of November there were 519 accidents at highway grade crossings, a reduction of 143 under those for November, 1929, while 193 fatalities were reported as caused by those accidents. This was a reduction of 73 compared with the number reported for November, 1929. Persons injured in highway grade crossing accidents in November 1930, totaled 612, compared with 751 in the same month of the preceding year.

The Plumbers' Association of San Diego has requested the San Diego city council to amend the ordinance requiring posting of a license bond with the city. Plumbers now are required to post a \$2500 bond to operate. This affects master plumbers only. Recently the council took off the bonds from the building contracting and electrical contracting men. The wholesale bond removal followed the city's difficulties in trying to collect on bonds posted in connection with subdivision water main installation and street improvements.

The Eastern Manufacturers' Group of the Structural Clay Tile Association has just published "Recommended Minimum Requirements for Structural Clay Hollow Tile Construction." The specifications included in the book are the result of exhaustive research carried on by the Bureau of Standards and by the Research Department of the Structural Clay Tile Association. The book is divided into three main sections: One section on definitions, one giving the recommended minimum requirements, and one devoted to reprints of the latest standard specifications governing manufacture and tests for clay hollow tile issued by the American Society for Testing Materials.

Commercial Standard CS22-30, dealing with various types of non-temple builders' hardware, is the subject of a 68-page pamphlet issued by the U. S. Bureau of Standards which can be obtained from the Government Printing Office at Washington, D. C., at 10c per copy.

The report of the committee on crib construction, prepared by H. M. Cochran of the Union Lumber Company, and entitled "Redwood Crib Construction—Its Advantages, Application and Erection," will be printed for distribution to architects, building inspectors and fire chiefs. The report was read by Mason E. Kline of the Union Lumber Company at the recent meeting of the lumber committee of the California Retail Lumbermen's Association and the Redwood Relationship Committee.

United Conveyor Corp., Old Colony Building, Chicago, has published a 16-page illustrated bulletin on the subject of vitrified glazed tile ash-storage tanks.

Non-clogging pumps of the inclose shaft type are the subject of a 23-page bulletin, 126 of the Chicago Pump Co., 2336 Wolfram St., Chicago, Ill. Single and duplex units are shown and improvements and advances in design are treated in detail. The book let also reproduces drawings of many different pump installations, specifications, tables of capacity, heads and horsepower and miscellaneous installation and maintenance data. Another publication of the company is a 2-page leaflet describing the new N type small, compact, direct-connect centrifugal pump for industrial use with capacities of from 3 to 60 gal per minute.

Recent publications of the Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa., include descriptive leaflets on condensate pumps, steam turbine-generator units and industrial electric heating equipment, as well as a 40-page illustrated bulletin, "Engineering Achievements of the Westinghouse Electric & Mfg. Co. During 1930." Many articles in the latter publication are of particular interest to civil engineers, especially those dealing with hydro-electric and steam power development, lightning arresters, Welland Canal equipment, of electric locomotive design and other

A detailed discussion of the methods used in the electroplating of aluminum, supplemented by many illustrations, is given in a 36-page book published by the Aluminum Company of America, Pittsburgh, Pa.

Warren-Knight Co., 1650 North 12th St., Philadelphia, Pa., has issued a 52-page book of instruction, telling how to use the Sterling convertible way level.

A description of the properties aluminum paint is contained in Research Bulletin Number 10, published by the Paint and Varnish Manufacturers' Association, Incorporated, 19 West 44th Street, New York. The Bulletin refers to specifications on this subject prepared by the Aluminum Company of America. Specifications of the National Lead Company for paint made from an "all red lead" are reproduced in another document from the same source.

The American Standard Safety Code for Mechanical Refrigeration is just off the press, it is announced by the American Standard Association, 39th Street, New York City. The code has already been adopted in its entirety by several cities and others are considering its adoption. It represents one of the most important standards of the necessary precaution being taken by industry to prevent improper installation or use of technical equipment instead of waiting to be forced to do so by public demand. The code was developed through the initiative of the American Standard Association and under the leadership of the American Society of Refrigerating Engineers. It was approved by the ASA in October, 1930.

ALONG THE LINE

William F. Patton, 64, retired building contractor of Berkeley, died in his city last Tuesday, following a long illness. Previous to locating in Berkeley, Patton was for eighteen years operated as a contractor in Santa Rosa.

Edward K. Hussey of Oakland has been appointed city engineer of Lodi. Hussey succeeds the late L. F. Barcolotti.

Charles S. Caughell, 75, county surveyor of Lassen county, died in Susanville last Saturday after an illness of several months. Caughell had been a resident of Lassen County twenty years. Going there from Duluth, Minn., he engaged in his occupation of timber cruiser, was elected as county surveyor twelve years ago and had served continuously since.

M. E. Coulter, branch manager for the Henry Cowell Lime and Cement Company at Sacramento, has been elected president of the Aviation Club of Sacramento.

A. L. Banks, former city clerk of Stockton, has been appointed an assistant to James I. Herz, deputy director of the State Department of Public Works. Previous to holding the office of the city clerk at Stockton, Banks was engaged in the newspaper business in the San Joaquin valley.

James E. Cashman, nationally prominent general contractor, died of heart ailment February 24 at Burlington, N. J., following a minor operation for a taphylococcus infection on the back of his neck. Mr. Cashman was a former member of the Associated General Contractors, serving as vice-president at large in 1930. He had been chairman of the membership committee of that organization since 1926.

Patrick Cahill, 85, founder of the Ahl and Hall Elevator Co., retiring for the fire of 1906, died at his home in Oakland, Feb. 25, after a year's illness. His widow, three sons and a daughter survive.

UNFILED STEEL ORDERS DECREASE

Unfiled orders of the United States steel Corporation decreased 167,157 tons in February to a total of 3,365,544 tons on February 28. In January an increase of 188,755 tons was reported.

The backlog as of January 31 was 132,351 tons. On December 31 unfiled orders aggregated 3,943,596 tons. Over the 30 the total unfiled tonnage was 3,639,636, and February 28, 950, unfiled orders amounted to 4,79,748 tons.

A decrease was expected in financial circles because of the rise in quotations during February and the smaller number of business days in that month for buying.

It was pointed out that consumers apparently were awaiting definite indications of the spring trend before placing orders.

The decrease was the first shown in the Steel Corporation's backlog since last September, when the unfiled tonnage dropped 155,866 tons.

HERE—THERE EVERYWHERE

Seven mills in Washington and Oregon, representing the entire production of Douglas fir plywood in the United States, announce a three-year nation-wide program of advertising, sales promotion and engineering research. A. R. Vuest of Hoquiam, Wash., chairman of the industry's executive committee, said he believed the campaign would materially increase the sales of fir plywood, which he said have doubled in the last five years. The fabricated material is used in automobile bodies, radios, trucks and other products.

Carlos W. Huntington, director of the State Department of Professional and Vocational Standards, will be a speaker at the meeting of the California State Builders' Exchange, scheduled at the Hotel Fresno, Fresno, March 21, it is announced by Harry Cayford, secretary of the state organization.

The journeymen painters of Chicago recently petitioned their employers to concrete them the right of working only three days a week. It is their intention, they say, to give all their members a chance to get in a few days every week.

Dublin, Ireland, is facing a serious strike of the building trades because the employers are insisting upon a cut in wages to stimulate construction work. Ten thousand men will be affected. The Master Builders of Dublin say there must be a readjustment of wages to stimulate work. They pay an average of 44 cents per hour and London, England, pays 38 cents.

Elastic Analysis Of Continuous Frames

The object of Bulletin No. 215 of the Engineering Experiment Station of the University of Illinois was to present some theorems dealing with the elastic analysis of continuous frames.

In this bulletin it is shown that bending moments in arches, haunched beams, and framed bents may be computed by a procedure analogous to the computation of fiber stresses in short columns subject to bending, and that slopes and deflections in these structures may be computed as shears and bending moments, respectively, on longitudinal sections through such columns.

The theorems make available for the analysis of plane elastic structures the literature of beam analysis, dealing with the kern, the circle of inertia, the ellipse of inertia, graphical computations of moments and products of inertia, and conjugate axes of inertia.

Certain terms are defined in such a way that the method is extended to include the effect of deformations due to longitudinal stress and to shear in ribbed members and to include truss members.

The conceptions used in arch analysis by these methods make possible a general statement of the relations of joint displacements to joint forces, of which the equation of slope-deflection is a special case, and hence make possible the convenient extension of the method of slope-deflection, or of the theorem of three moments, to include curved members and members of varying amounts of inertia. Copies of Bulletin No. 215 may be obtained without charge by addressing the Engineering Experiment Station, Urbana, Illinois.

TRADE NOTES

Madsen Supply Co., wholesaling a complete line of plumbing and sheet metal supplies, will commence operations at 1600 Harrison St., Oakland, on April 1. The personnel of the company consists entirely of members of the former firm of Holbrook, Merrill and Stetson. Martin Madsen is owner and general manager.

United Building Co., Ltd., of San Francisco, capitalized for \$10,000, has been incorporated. Directors are Albert, Annie and Benjamin Stone.

Casper Lumber Company of San Francisco, capitalized for \$400,000, has been incorporated. Directors are: C. J. Wood, C. E. DeCamp, Abbie E. Martin, L. B. Slossos, F. W. Stickney, G. A. Freudenberg and H. B. Worden.

Refrigeration Maintenance Corp., Ltd., has commenced the manufacture of refrigeration cooling units for all refrigerants, and the servicing of all makes of mechanical refrigerators. The offices and factory are located at 104-106 Olive Street, San Francisco, under the direction of E. D. Flynn. This company is also manufacturers' agent of cooling units for Bush Manufacturing Co. of Hartford, Conn.

L. A. ART BODY RULES ON MARQUEES

Any marquee hereafter placed on a building in Los Angeles must be designed to conform to the architecture of the building to which it is attached. This ruling was recently made by the Municipal Art Commission, which under the city charter must approve the plan for any structure which extends over public property and it rarely happens that a marquee on any private building does not overhang the sidewalk.

The commission also went on record as opposed to advertising banners and signs attached to a marquee and plans a drastic campaign to remove such advertising which, in its opinion, causes an unsightly appearance of city streets and impairs the value of property.

These new rulings were proposed by Carleton M. Winslow, architect, recently appointed to the commission.

PLANNERS CANNOT REGULATE BILLBOARDS

Regulation of billboards is not within the jurisdiction of the City Planning Commission, Assistant City Attorney Walter A. Dodd of San Francisco told the commission.

Dodd ruled, however, that the Board of Supervisors can enact an ordinance placing such regulation in the hands of the commission. Members of the commission indicated they will propose such a measure.

The request for an opinion followed protests filed with the commission in regard to billboards erected on residential property fronting on West Portal Avenue and Portola Drive, facing St. Francis Wood.

It was contended that erection of billboards constitutes a commercial use of the property.

Worthington Pump & Machinery Corp., 2 Park Ave., New York City, has published two bulletins on vertical triplex power pumps and deep well pumps.

FIRE HOSE TEST MADE AT U. OF C.

To determine the correct sizes of hose to use for fire fighting purposes, a series of tests has just been completed in the laboratories of the University of California Agricultural Engineering laboratories at the Branch of the College of Agriculture at Davis. The results of the tests, made by Prof. Roy Brainer and K. R. Frost, are briefly summarized as follows:

One-inch hose can be used satisfactorily with one-eighth-inch nozzles for distances up to 1000 feet and quarter-inch nozzles up to 500 feet, while one and one-half-inch hose may be used with three-eighths-inch nozzles for distances up to 1000 feet; friction varies in fire hoses very nearly as the square of the velocity; the difference in pressure obtained when the hose is laid in various positions are not of material importance.

In comparing the two sizes of hose, using maximum discharges, it was found that the loss for 100 feet of one-inch hose discharging 30 gallons per minute was 30 pounds per square inch; the one and one-half-inch hose showed only a loss of 13 pounds per square inch for 60 gallons per minute. "It would be impossible," says Professor Bainer and Frost, "to maintain a pressure necessary for extinguishing fires at distances much greater than 500 feet from the pump with discharges of more than 20 gallons per minute with one-inch hose. Practical operation could be secured with the inch and a half-hose with discharges under 40 gallons per minute at a distance of 1000 feet from the pump.

"If the discharge can be decreased to very low figures, the length can be materially increased for both sizes of hose. If the hose is used for transporting water along, or to, a fire line and not discharging under pressure, the loss due to friction is not so important. In this case the size of the hose that carries a capacity equal to the amount of desired will be satisfactory."

JEAN L. VINCENZ SEEKS PUBLIC OFFICE

Jean L. Vincenz, civil engineer of Fresno, will be a candidate for the office of commissioner of public works of Fresno, at the municipal election April 13.

Vincenz has had 15 years' experience as a registered civil engineer and for eight years was a member of the firm of Chamberlain and Vincenz of Fresno, engaged in the practice of engineering. He served as city engineer, as a member of the firm at Fowler and Parlier, Calif., and during the past year served as a deputy engineer in the office of Chris P. Jensen, Fresno county surveyor.

The American Institute of Architects has accepted the invitation tendered by the American Standards Association to become a member of the sectional committee in charge of the project, Safety Code for Grandstands (Z20). LeRoy E. Kern, technical secretary of the Institute, has been appointed to act as representative of the Institute on the committee.

H. I. Dygert, city building inspector of Albany, Alameda County, reports the issuance of 26 building permits in February for projects involving an expenditure of \$49,755. Twelve permits covered alterations costing \$1,495 and 17 permits for stores and dwellings costing \$48,350. For the first two months of the current year the building total registers \$87,830 as compared with \$63,465 for the corresponding period last year.

PACIFIC COAST BUILDING IN FEBRUARY TOTALS \$14,254,988

Building permits issued in the Pacific Coast states during the month of February, 1931, totaled 6,792, involving an expenditure of \$14,254,988 as compared with \$19,256,727 for the corresponding period in 1930. The following is a complete report of the February, 1931, activities together with the month of February, 1930, as reported by municipal building department executives in the cities listed:

City	CALIFORNIA		February 1930
	February, 1931 No. of P'mts	Cost	
Albany	29	\$ 45,755	\$ 43,215
Alameda	29	38,344	42,407
Alhambra	44	74,225	75,720
Anaheim	11	79,835	19,175
Bakersfield	40	53,575	216,690
Berkeley	69	157,044	287,131
Beverly Hills	55	254,800	416,960
Burbank	24	22,350	45,720
Burlingame	11	88,600	24,450
Carmel	10	7,920	12,080
Chula Vista	11	24,410	4,070
Colton	2	2,050	5,800
Compton	16	48,660	45,315
Coronado	12	1,937	8,625
Culver City	10	15,955	15,028
Eureka	26	22,935	60,540
Fresno	86	120,595	127,716
Fullerton	7	8,225	29,255
Glendale	80	142,165	260,734
Hayward	7	9,225	7,960
Huntington Park	32	36,755	\$4,175
Inglewood	38	55,525	56,070
Long Beach	279	355,845	904,870
Los Angeles	1,889	3,670,782	3,897,064
Los Gatos	5	4,450	2,290
Lynwood	15	17,200	112,817
Menloville	16	2,465	56,210
Montebello	4	5,000	30,207
Monterey	17	7,825	19,880
National City	16	12,690	7,205
Oakland	253	1,000,035	1,315,300
Oceanside	10	1,130	2,806
Ontario	10	14,225	85,610
Orange	12	16,850	11,550
Pacific Grove	14	11,875	26,350
Palo Alto	40	90,200	80,340
Palos Verdes Estates	14	14,450	42,900
Pasadena	304	162,566	337,254
Petaluma	4	5,200	19,965
Piedmont	4	35,400	34,551
Pomona	42	212,515	94,415
Redwood City	33	45,600	115,492
Richmond	36	52,923	37,600
Sacramento	96	608,781	143,519
Salinas	24	60,210	264,365
San Bernardino	40	65,676	161,982
San Diego	270	386,442	401,118
San Francisco	501	1,712,571	1,144,062
San Gabriel		6,065	14,600
San Jose	71	157,655	118,970
San Marino	11	124,876	116,661
San Mateo	35	188,920	206,940
San Rafael	11	9,475	150,150
Santa Ana	46	64,472	212,040
Santa Barbara	94	273,910	145,990
Santa Cruz	26	118,345	44,021
Santa Monica	635	249,181	136,353
Santa Rosa	4	38,700	34,450
South Gate	26	28,625	88,480
South Pasadena		9,355	81,150
Stockton	30	76,370	185,375
Torrance	5	16,280	135,480
Ventura	9	19,900	24,175
Vernon		95,045	55,329
Watsonville	18	21,705	19,420
Willow Glen	12	37,750	90,800
Total	5,056	\$11,296,298	\$13,156,216

ARIZONA

Phoenix	43	\$ 206,375	\$ 115,273
Tucson	72	50,921	154,043
Total	115	257,296	269,316

IDAHO

Boise	36	\$ 15,700	\$ 45,799
Lewiston	25	37,495	26,020
Nampa	28	11,745	12,995
Total	89	64,940	84,824

NEVADA

Reno	27	\$ 122,225	\$ 122,500
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OREGON

Albany	6	\$ 5,000	\$ 3,500
Astoria	15	27,390	2,370
Corvallis	12	111,520	13,960
Eugene	38	25,069	31,832
Marshfield	33	11,000	5,905
Portland	453	663,400	625,385
Salem	38	19,888	27,029
Total	573	\$ 864,267	\$ 709,621

UTAH

Logan	1	\$ 900	\$ 3,500
Ogden	7	30,140	35,060
Salt Lake City	48	173,452	116,285
Total	56	\$ 210,522	\$ 158,785

WASHINGTON

Aberdeen	16	\$ 4,105	\$ 27,215
Bellingham	40	24,265	35,330
Everett	41	21,935	53,555
Hoquiam	9	2,520	22,655
Port Angeles	15	7,475	27,000
Seattle	42	879,825	2,584,550
Spokane	134	112,395	295,875
Tacoma	127	233,165	1,380,670
Walla Walla	14	13,165	11,275
Wenatchee	21	41,875	54,550
Yakima	40	95,775	292,250
Total	576	\$ 1,439,440	\$ 4,715,465
Grand Total	6,792	\$14,254,388	\$19,256,727

VOCATIONAL TRAINING URGED TO RELIEVE UNEMPLOYMENT CAUSED BY INTRODUCTION OF NEW MACHINERY

That vocational training as carried on under the national vocational education program can be utilized to relieve unemployment caused by the introduction of new machinery, operations, and processes in industry, is the opinion of Dr. J. C. Wright, director of the Federal Board for Vocational Education.

In expressing this opinion, Dr. Wright stresses the necessity of anticipating these industrial changes far enough in advance that men who are destined to be displaced by them may be retrained for other types of work. To this end, he urges that employers and workers cooperate in keeping vocational schools informed of new jobs for which workers should be trained. Only in this way, Dr. Wright emphasizes, will the schools be able most effectively to play their part in relieving technological unemployment.

"In advocating a plan of vocational training for workers displaced by industrial changes, I am not following a theory," Dr. Wright explains. "I can point to specific instances which demonstrate the feasibility of such a plan. I wish it to be understood, also, that I am not advocating following any set program in carrying out the plan. It is possible, for instance, for those who have been displaced through technological changes in industry to be vocationally trained for other jobs through their labor unions, in courses set up by employers or by State or local educational services, in intensive courses operated by public schools, and in special or "opportunity" courses. The effectiveness of the training and not the particular training agency is what counts.

Workers Help Themselves

"Not long ago the business agent of the local union of truck drivers in New York City was informed by the president of a large coal company that within six months the company proposed to change from horse-driven to motor-driven trucks. With this information in hand the business agent presented the problem to the members of the union at their next meeting. Confronted with the possibility of losing their jobs, the members of the union purchased a three-ton Mack truck and employed a competent instructor to teach them how to drive motor trucks and how to make emergency road repairs. This instruction

was given to the men during their leisure time in the evenings, and before the six months had elapsed every one of these drivers had been able to secure his driver's license.

"Six months later, when the president of the company expressed regret that it would be necessary to let off the drivers of horse-driven trucks and employ licensed operators of motor-driven trucks, the business agent informed him that every one of the men now in his employ was a competent and licensed motor truck driver. He also called the president's attention to the fact that these men knew the company's business and the company's customers, and that they had been found through many years of experience to be loyal to the company's interests—assets which new men could not possibly possess. This information was all that was necessary to enable these men to retain their jobs.

Employers Get on Job

"A few weeks ago I visited a rubber company in New England. I found that the company had organized its own training department and that this department was responsible not only for the training of new employees, but also for the retraining of those employees whose jobs were discontinued by reason of the introduction of new machines, processes, or methods. The training department was kept advised of proposed changes and therefore was in a position to transfer the employees affected by these changes to other departments, and to train them in the new skills, operations, and technical information required by these jobs. On the occasion of my visit to this plant I was accompanied by two representatives of the State Board for Vocational Education, which had been requested to assist the training department in the training of teachers.

State Takes a Hand

"One of the most striking examples of the retraining for new jobs of workers whose jobs were threatened by industrial change is reported from New Jersey.

"When a large railroad company decided to electrify its tracks in that State it faced the problem of finding competent engineers for its electric locomotives. Instead of turning out its steam locomotive engineers, the company, with the assistance of the State Board for Vocational Educa-

tion, which furnished a competent instructor, trained its locomotive engineers and firemen to be experienced electric locomotive operators, while the electrification of its tracks was in process. Latest reports are that this program has been carried through satisfactorily.

Public Schools Help

"I am informed by the State Supervisor of Trade and Industrial Education for the State of Michigan that when countless numbers of machine operators were released and turned out of employment by the manufacturers of automobiles, during the depression of 1929-30, thousands of these unemployed came to the evening schools, and to some extent to the day schools, for vocational training. The majority of these workers had been taken into the automobile plants with little or no previous training and under the direction of an instructor who had no previous training, whom one or two very simple operations in the manufacture and assembly of automobiles. When it became necessary to reduce the force under the market conditions, the men and women who possessed little or no skill were the first to be let out. As this fact dawned upon many of these workers, they realized that as insurance against unemployment it would be worth their while to go to school and equip themselves for doing more than one simple operation.

"During all this period of depression I am informed that there has been a great scarcity of tool and die makers in Ohio, Michigan, and other industrial States, and that there is also a great need for competent machinists. It requires several years, however, to become a highly skilled worker in the machinist trade, and the public schools in Detroit and other cities found it very difficult to adjust their programs to meet emergency demands in such overwhelming numbers. Had the need for machinists been anticipated, it would have been possible for the schools to have developed training courses and to have put those into operation in time to meet the demand for such workers.

"Opportunity Schools"

"A number of cities now maintain what may be called 'opportunity schools.' The oldest and perhaps best organized is that located in Denver, Colo., which has grown up under the leadership of Miss Emily Griffith. Some 7,000 or 8,000 students attend this school each year and few indeed have come to its doors with a specific need for training to help them get a job, keep their job, or find a better job, who have not met with a ready response on the part of the school. A man or woman out of employment in the City of Denver can go to this school and be given short intensive instruction under a competent instructor for practically any new occupation.

All Must Cooperate

"I can not emphasize too strongly the need for cooperation between the vocational school authorities, and employers and workers. The province of the vocational school in relieving technological unemployment is to train for new jobs those who have been thrown out of employment. The employer can give the school authorities information on employment opportunities for which the school can train workers, and can frequently give the information for this training which the school does not possess. The worker on the other hand knows the requirements of specific occupations, information which is invaluable to the school in setting up vocational courses. For the information and assistance it needs in setting up courses, therefore, the school must look to the employer and the employee groups."

HOME BUILDING IN LOS ANGELES

A tabulation of single-family residences erected in Los Angeles during the first six months of 1929, compiled by J. J. Backus, superintendent of building, for comparison with similar data for the same period in St. Louis and Washington, D. C., discloses that of the 2532 built in Los Angeles, 2364 cost less than \$5000 each, while of 732 built in St. Louis 597 cost less than \$5000 each, and of 885 in Washington only 105 cost less than \$5000.

In Los Angeles the largest number cost between \$2000 and \$3000 each, in St. Louis the largest number cost between \$3000 and \$4000, and in Washington the greater number cost from \$5000 to \$6000.

In Los Angeles 175 houses were built costing more than \$10,000, as compared with 14 in St. Louis and 169 in Washington.

In Los Angeles 51 houses costing from \$20,000 to \$175,000 each were erected, while in St. Louis there were only 3 costing from \$20,000 to \$45,000 each and in Washington 27 costing from \$20,000 up to \$75,000.

SANTA CRUZ SEEKS BUILDING PUBLICITY

In future Santa Cruz proposes to receive credit for its building activities. The city council plans to change the method of reporting building permits.

This was definitely decided upon by the council, not because the city has been losing a few dollars in the way of fees, but because it has been losing a great amount of desirable publicity in the matter of indicating how much building is going on within the city.

For instance: When the building permits for the three new public school buildings were taken out the total amount specified in the application for the permits was \$198,366.75, leaving the impression that that amount represented the cost of the buildings, when as a matter of fact the actual cost was \$310,632.75, not including a few extra items brought the sum up to a larger point.

There was a loss of \$121,266 in the way of publicity showing volume of building. Many buildings have been reported in this manner and the council intends hereafter in jobs of this sort to insist that the real cost of the completed building be specified in the building application.

No reflection is cast on Building Inspector John H. Patterson. This official merely takes the data the engineer gives him. He will now act with the council in the way of getting for the city all it is entitled to in the way of statistics showing the actual amount of building done.

Evidence that welding as a method of building construction has arrived at a point where it is cheaper than riveting in many cases, is found at Nela Park, Cleveland, where the General Electric Company is to start work immediately on the construction of an industrial building. The building to be devoted to the manufacture of wire for the incandescent lamp department of the company, will be erected under contract by the Austin Company of Cleveland, and 1000 tons of steel will be used. Competitive bids were submitted for both welding and riveting in fabricating the steel, and by using welding it was found that \$2100 will be saved, or \$2.10 per ton, over the riveting method. It is expected that the building will be completed sometime during the present year.

HOME PRODUCTS GIVEN PREFERENCE

Prospective bidders on Federal construction are informed that the last Army Bill, carrying appropriations for the fiscal year 1932, and approved by the President February 23, 1931, carried the following provision: "That in the expenditure of appropriations in the Act the Secretary of War shall, unless in his discretion the interest of the Government will not permit, purchase or contract for, within the limits of the United States, only articles of the growth, production, or manufacture of the United States, notwithstanding that such articles of the growth, production, or manufacture of the United States may cost more, if such excess of cost be not unreasonable."

The above information is conveyed to all prospective bidders in order that they may take cognizance of it in submitting bids, as such a clause will be incorporated in contracts when awards are made, and made a part of same. The above Act of Congress will apply to all bids opened from March 10, 1931, on.

OAKLAND ADOPTS NEW ZONING LAW

As a result of conferences with real estate men, business men, financial experts, city planners architects, contractors and representatives of many other interests which will be affected by the new zoning law, a new ordinance which was said to eliminate all the weak points, or points of criticism in the old ordinance, was passed to print by the city council last Monday.

The new ordinance raises the height limit of apartment houses, makes some changes in zones, keeps the setback lines practically as they were throughout the city, and makes more specific definitions of the zones and the types of structures which will be allowed thereon.

Builders declared that the old ordinance was an obstacle to building operations in the city and had delayed building operations and therefore employment. City officials and all other representatives said they were satisfied with the new form of ordinance.

The new ordinance, as before, defines five types of zones, A, B, C, D and E, each permitting certain species of structures to be erected thereon. There is the strict residential zone, the residential and apartment zones, the business zone, the industrial zone, and the "heavy industrial" zone, where acids and other more dangerous species of products may be manufactured.

The ordinance will be given final passage and will become effective in eight days.

STOCKTON EXCHANGE RE-ELECTS PELETZ

Re-election of L. S. Peletz as president of the Stockton Builders' Exchange featured the annual meeting of that organization in the new headquarters at 242 East Miner Avenue last Tuesday night.

Other officers elected were: John Pengelly, vice-president; Earl Lewis, secretary; A. Sandberg, treasurer and W. T. Gibson, J. A. Allen, J. F. Ecker, E. L. Steeler, Rolle Goold and James McIntosh, directors.

Following the election of officers, Howard G. Bissell, architect and secretary of the Stockton City Planning Commission, explained details of the tentative major street plan, recently completed for Stockton.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1684).

R-3495-S WELDING ENGINEER
young man with some technical education and skilled with welder torch, for service work for manufacturer of non-ferrous welder rods. Salary open. Location, California.

R-3504-S SALES ENGINEER, experienced, to sell outdoor sprinkler installations for large lawns, gardens, nurseries, etc. Must have ex-Commission only. One man wants for San Francisco territory and one for Northwest. Headquarters, San Francisco and Portland.

R-3505-S SALES REPRESENTATIVES or agents wanted for a perfected automatic coal stoker for domestic heating. Name of company furnished on request to qualified applicants in Western States

R-3470-S MECHANICAL ENGINEER preferably over 35 years old, with several years experience as production engineer in the employment company manufacturing farm machinery. Only this experience considered. Man will be given in charge of small shop and offer demonstration of ability to produce results. Must be willing to accept small salary to start. Apply by letter with full details of experience, etc. Location, San Francisco.

R-3438-S CHEMIST, technical graduate, preferably 30-35 years of age, with good practical experience, willing to follow instructions, for inorganic analytical work. Salary \$150-\$200 month depending on experience. Apply by letter for interview. Location, near San Francisco.

Water Treatment For Ice Manufacture

The investigation reported in Bulletin No. 219 of the Engineering Experiment Station of the University of Illinois had as its scope a general survey of raw water sources available throughout the United States for the production of manufactured ice, and the development of methods of water treatment whereby each of these water supplies may become available for the production of the highest quality ice in completely electrified plants.

As a result of the investigation, two distinct methods were developed whereby any characteristic sodium bicarbonate water source may be used in the production of marketable manufactured ice. The first is based upon definite modifications in present manufacturing practice, places particular stress upon obtaining greater efficiency of air agitation during the freezing process by means of a new type of ice can, and makes no attempt to reduce the concentration of salts dissolved in the water prior to the freezing operation. The second introduces a new method of chemical water treatment prior to the freezing operation, whereby the total salt concentration of the water may be reduced to such an extent that standard operating conditions and equipment may be utilized. The two methods are described in detail in the bulletin.

Copies of Bulletin No. 219 may be obtained without charge by addressing the Engineering Experiment Station, Urbana, Illinois.

Building News Section

APARTMENTS

Plans Being Prepared.
APARTMENTS Cost, \$400,000
LONG BEACH, Los Angeles Co., Cal.
 Ocean Avenue
 Eighteen-story steel frame and concrete class A apartment hotel (60x80 feet).
 Owner—Withheld.
 Architect—Jos. H. Roberts, 501 Termino Ave., Long Beach.

Sub-Figures Being Taken.
APARTMENTS Cost, \$84,000
SAN FRANCISCO. SE Pacific Ave. and Gough St.
 Five-story and basement steel frame and concrete class C apts. (23 apts.).
 Owner and Builder—Peter Midtust, 529 Pierce Street.
 Architect—H. C. Baumann, 251 Kearny Street.
 Composition roofing, oil burning system, one automatic electric elevator, steam heat.

PALO ALTO, Santa Clara Co., Cal.—See "Banks, Stores and Offices," this issue.

Plans Being Prepared.
APARTMENTS Cost, \$200,000
BAYWOOD, San Mateo Co., Calif.
 Apartment building.
 Owner and Builder—L. Dioguardi, 30 W. Poplar St., San Mateo.
 Architect—William Tonke, 74 N. e. w. Montgomery St., San Francisco.
 More information will be given shortly.

Completing Plans.
APARTMENTS Cost, \$125,000
FRESNO, Fresno Co., Cal. Fulton and Sacramento Streets.
 Fireproof apartments.
 Owner—I. Teلمان, Kearney and Teلمان Sts., Fresno.
 Architect—W. D. Coates Jr., Rowell Bldg., Fresno.
 Bids will be taken about March 15.

Plans Being Figured.
APARTMENTS Cost, \$250,000
SAN MATEO, San Mateo Co., Calif.
 Third and Dartmouth Sts.
 Six-story and basement class C steel frame, brick and concrete apartments (21 2-3 4-5-6-7- and 8-room apts.).
 Owner—Irna Downing, 212 S. El Camino, San Mateo.
 Architect—Willis Lowe, 354 Hobart St., Oakland.
 Bids are being taken for a general contract with separate bids for plumbing, heating and ventilating, painting and steel work.

Contract Awarded.
APARTMENTS Cost, \$17,800
SAN FRANCISCO. E Divisadero St. N Jefferson.
 Three-story and basement frame and stucco apartments (6 apts.).
 Owner—G. and M. Teglia, 3023 Franklin Street.
 Plans by B. K. Dobkowitz, 425 Monterey Blvd.
 Contractor—G. Harder, 1233 41st Ave.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$—
SAN FRANCISCO. 499 Buena Vista Avenue.
 Alter residence for apartments.
 Owner—Mrs. J. A. Wilcox, premises.
 Architect—H. H. Gutterson, 526 Powell Street.

Contractor—Clinton-Stephenson Const. Co., Monadnock Bldg.
Electric Work—Atlas Electric Co., 343 4th Street.
Lumber—Loop Lumber Co., Central Bldg.
Concrete—Golden Gate Atlas Materials Co., 16th and Harrison Sts.
Electric Fans—Gunn, Carle & Co., 444 Market St.
Underpinning—D. J. Sullivan, 1342 Polson Street.
Mill Work—Portman's Planing Mill, 1615 Mission St.

Contract Awarded.
APARTMENTS Cost, \$45,000
OAKLAND, Alameda Co., Cal. 2451 Seminary Ave.
 Three-story and basement frame and stucco apartments (66 rooms).
 Owner—Mrs. Ethel D. Magoon, 1967 Courtland Ave., Oakland.
 Architect—Not Given.
 Contractor—E. B. Magoon, 1967 Courtland Ave., Oakland.

Construction Postponed For 30 Days.
APARTMENTS Cost, \$7000
OAKLAND, Alameda Co., Cal. NE Glenview and Woodruff Streets.
 One-story frame and stucco duplex (2 4-room apartments).
 Owner and Builder—O. E. Jensen, % Harry K. Jensen, 354 Hobart St., Oakland.
 Plans by Harry K. Jensen, 354 Hobart St., Oakland.

Bids To Be Taken Within Few Days.
APARTMENTS Cost, \$—
SAN MATEO, San Mateo Co., Cal. Fourth Ave and San Mateo Dr.
 Three-story and basement wood frame and stucco apartments (27 2, 3 and 4-room apts.)
 Owner—Withheld.
 Architect—Oscar Thayer, 110 Sutter St., San Francisco.
 Steam heating, oil burning system, two garages with turn tables in each.

BONDS

ELKO, Nevada—Election will be called at once to vote bonds of \$50,000 to finance construction of a gymnasium in connection with the Elko County High School plant. The State Assembly has passed a bill authorizing such an issue.

SKILSAW Portable Electric Hand Saws (4 models).
SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attachments.
SYNTRON Portable Electric Hammers (4 models, motorless).
MALL Flexible Shaft Machines (50 models).
 Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric

Tools.

1248 Mission St. Underhill
 San Francisco 7662
 SALES . SERVICE . RENTALS

PORTERVILLE, Tulare Co., Cal.—City council sets April 7 as date to vote bonds of \$80,000 to finance erection of city hall and fire station at Main and Cleveland Sts. Architect W. D. Coates, Jr., 626 Rowell Building, Fresno, has prepared sketches for the structure.

MARYSVILLE, Yuba Co., Cal.—Election will be held March 27 in Linda School District to vote bonds of \$7500 to finance erection of a new school. Trustees of the district are: R. H. Davidson, E. M. Dunning and Wm. Dinsmore.

COLUSA, Colusa Co., Cal.—Trustees of the Pierce Joint Union High School District contemplate bond issue to finance erection of a new school on the present site. No architect has been selected as yet but it is expected definite action will be taken immediately following the school trustee election March 27.

LOS BANOS, Merced Co., Cal.—West Side Union High School District defeats proposal to issue bonds of \$175,000 to finance erection of a new high school. Preliminary plans for the proposed structure were prepared by W. D. Coates, Jr., architect, Fresno. The vote was 419 in favor and 408 against, a two-thirds majority being required.

OAKLAND, Cal.—City council contemplates bond issue of \$2,000,000 to relieve unemployed. Of this amount \$400,000 would finance construction of an exposition building adjacent to the municipal auditorium.

OROVILLE, Butte Co., Cal.—City council sets April 13 as date to vote bonds of \$25,000 to finance purchase of a site and erection of a new firehouse. The site would cost \$10,000 and the firehouse \$18,000.

ANTIOCH, Contra Costa Co., Cal.—Voters in Knights and Iron House Elementary School Districts will hold election March 17 to vote on the proposal to consolidate the two districts and after consolidation vote a bond issue of \$20,000 to finance erection of a centrally located school to replace the present two small structures.

CHURCHES

Contract Awarded.
CHURCH Cost, \$—
ALHAMBRA, Los Angeles Co., Cal. S7 Eighth and Shorb Sts.
 One-story brick and stone church (12x100 feet).
 Owner—Church of Jesus Christ of Latter Day Saints.
 Architect—J. A. Grundfor, 328 E. Chevy Chase Drive, Glendale
 Contractor—Leo Bowers, 5363 Edna St., Los Angeles.

Preparing Working Drawings
CHURCH Cost, Approx. \$100,000
SANTA BARBARA, Santa Barbara Co., Cal.
 One-story reinforced concrete church. Owner—First Church of Christ Scientist.
 Architect—Henry H. Gutterson, 526 Powell St., San Francisco.
 Bids will be called for in about 60 days.

Bids To Be Taken About April 15.
CHURCH Cost, \$4000
HAYWARD, Alameda Co., Cal. Grace and Soto Streets

Frame church.
 Owner—Grace Lutheran Church, Rev. Walter Luebkehan, Pastor.
 Plans by Walter Hagedohn, 995 South Western Ave., Los Angeles.

SIERRA MADRE, Los Angeles Co., Cal.—Very Reverend Eugene Provincial; Very Reverend Dennis, First Conductor; and Very Reverend Anselm, Second Conductor; Superiors of the Passionist Fathers of Chicago, are in Sierra Madre making a survey of a tract of land on Mount Olive where they propose establishing a retreat. Construction of a Monastery and a chapel is contemplated.

Preparing Working Drawings.
SUNDAY SCHOOL Approx. \$75,000
MODESTO, Stanislaus Co., Cal.
 One- and two-story brick church and Sunday School building.
 Owner—First Baptist Church, Modesto.
 Architect—G. N. Hilburn, Elks Bldg., Modesto.

General Contract Awarded.
CHURCH Cont. price, \$55,500
FITSBURG, Contra Costa Co., Cal.
 NW Black Diamond and W Eighth Streets

Two-story reinforced concrete church with steel roof trusses (120x12-ft.).
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco, a Corp. Sole (St. Peter Martyr Parish), Rev. Louis A. Nasselli, rector.
 Architect—Arnold Constable, 580 Market St., San Francisco.
 Contractor—Larsen & Larsen, Russ Bldg., San Francisco.

Will have full basement for Parish Hall and auditorium with seats for 700. Will have stucco finish, tile roof and be of Italian Romanesque style of architecture.
 Plans, Kennedy, Martinez, submitted lowest bid on heating, and J. A. Freitas, 1917 E 14th St., Oakland, was low bidder on the plumbing. Contracts will be awarded shortly. Bids on pews and church furniture will be called for at a later date.

Structural Steel Contract Awarded.
CHURCH Cost, \$250,000
SAN FRANCISCO Funston Ave. and Judah St. (120x245 feet).

Class A reinforced concrete church (2000 seating capacity).
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St.
 Architect—Shea & Shea, 454 Montgomery St., San Francisco.

Structural Engineer—W. Adrian, 417 Market St., San Francisco.
 Structural Steel—McClintic - Marshall Co., 2650 Bryant St., at \$58,725.

Bids are now being taken for a general contract, opening date not yet set.

FACTORIES AND WARE-HOUSES

Sub-Bids Being Taken.
LIVESTOCK BLDG. Cont. Price, \$97,500
SACRAMENTO, Sacramento Co., Cal.
 State Fair Grounds.

One-story brick livestock building.
 Owner—State of California.
 Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, State Office Bldg., Sacramento.

Contractor—F. L. Hansen, 282 7th St., San Francisco
 As previously reported, plumbing and heating awarded to Carpenter & Mendenhall, Sacramento, at \$370;

electric work to C. E. Turner Co., 2008 35th St., Sacramento, at \$278.

Contract Awarded.
FACTORY Cont. price, \$23,876
OAKLAND, Alameda Co., Cal. Eighty-first Avenue near E 14th St.
 One-story reinforced concrete factory.
 Owner—Blue Bird Potato Chips, Inc., 68th Ave. and Beck St., Oakland.
 Architect—Charles W. McCall, 1404 Franklin St., Oakland.
 Contractor—Albert A. Haskell, 255 Ridgeway, Oakland.

Sub-Contracts Awarded.
BAKING PLANT Cost, \$50,000
MODESTO, Stanislaus Co., Cal. Tenth and Needham Sts.

Part one and two-story brick baking plant (76x130 feet).
 Owner—San Joaquin Baking Co., L. and Los Angeles Sts., Fresno.
 Architect—C. E. Butler, Cory Bldg., Fresno.
 Contractor—H. Tennyson, 125 Poplar St., Modesto.

Plumbing and Sheet Metal—D R. Hoffman, Modesto.

Painting—Nielson Bros., Modesto.
Elevators—Otis Elevator Co., 1 Beach St., San Francisco.

Steel Rolling Doors—J. G. Wilson Corp., 26 O'Farrell St., S. F.
 F. D. Bradford, president of the company, announces \$15,000 has been allowed for the installation of modern baking equipment.

Contract Awarded.
CLEANING PLANT Cost, \$10,000
SAN FRANCISCO, SW Brady and Stevenson Sts.

Two-story class C cleaning and dyeing establishment.
 Owner—Bell Bros., Mills Bldg.
 Architect—E. H. Denke, 1317 Hyde St.
 Contractor—Cahill Bros., 206 Sansome Street.

DAGGETT, San Bernardino Co., Cal.—Ord Copper Co., Victor Smith, manager, Daggett, will erect a large milling and concentrating plant 14 miles south of Daggett. Initial development calls for a 1000-ton capacity unit which, together with housing facilities, will cost approximately \$2,500,000. Construction of a mineral conversion reduction plant at Daggett to cost \$1,000,000 is also proposed. Building program will extend over a period of six years and when completed the plant will have a capacity of 5000 tons daily. The total estimated cost is \$15,000,000.

Plans Being Figured.
FACTORY Cost, \$—
SAN FRANCISCO, Pacific Ave. near Polk Street.

Two-story and mezzanine floor frame and stucco factory.
 Owner—Withfield.
 Architect—Louis Mastropasqua, 580 Washington St.

OAKLAND, Alameda Co., Cal.—Grinnell Co., 5th and Brannan Sts., San Francisco, at \$167 awarded contract by East Bay Municipal Utility District, 512 16th St., to furnish and install sprinkler system complete in buildings known as "Carpenter Shop" and "Meter Shop" at the district corporations yard, 22nd and Adeline Sts.

Preparing Working Drawings.
FACTORY Cost, \$1,000,000-\$1,500,000
OAKLAND, Alameda Co., Cal. Location withheld.

Factory building.
 Owner—Owens-Illinois Glass Co. (W. L. Cole, Mgr.), 133 Kearny St., San Francisco.

Plans by Eng. Dept. of Owner, Toledo, Ohio (H. Barnard, Chief Engineer).

Engineers are expected here from the East in three weeks, at which time a site will be definitely selected.

LOS ANGELES, Cal.—P. Grassi Travertine Works, 145 San Bruno St., San Francisco, contemplates erecting a manufacturing plant in Los Angeles. The firm was awarded a contract by the Los Angeles county supervisors on March 4 for all travertine work for the new Acute Unit of the Los Angeles General Hospital.

REDWOOD CITY, San Mateo Co., Cal.—C. E. Miller who has been inspecting sites in the Contra Costa County section near Pittsburg, is seeking a site in Redwood City for a plant to be erected by the National Silicate Products Co., 63 Bluxome St., San Francisco, manufacturers of a quick-drying cement. A plant with a daily capacity of 2,000 barrels is planned. The National Silicate Company formerly owned the National Magnesite Company of Redwood City, which was taken over several years ago by the Johns-Manville interests.

Plans Being Prepared.
SHEED Cost, \$—
TIBBLOCK, Stanislaus Co., Calif.
 One-story frame freight shed.
 Owner—Tidewater Southern R. R. Co., Mills Bldg., San Francisco.
 Plans by Eng. Dept. of Owner (Mr. Spitten), Mills Bldg., San Francisco.

Bids will be taken in about 30 days.

Completing Plans.
PLANT Cost, \$100,000
SAN JOSE, Santa Clara Co., Cal.
 Three- or four-story concrete or brick manufacturing and refining plant
 Owner—Liquid Sugar Corp., 637 Battery St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Bids will be taken in about 3 weeks.

Sub-Contracts Awarded.
ASSEMBLY PLANT Cost, \$3,200,000
SEATTLE, Wash. Duwamish Waterway.

Motor car assembly plant.
 Owner—Ford Motor Company.
 Architect—Albert Kahn, Inc., Detroit
 Contractor—Clinton Const. Co., 323 Folsom St., San Francisco.
Lumber—Stimson Mill & Lumber Co., Seattle.

Plans of Reinforcing Steel—Larsen Co., Seattle.
 Sub-bids on other units of this project, as listed in issue of February 26 are still being taken.

Contracts Awarded.
BAKERY Cost, \$16,000
SAN JOSE, Santa Clara Co., Cal. 281 Market St.

Two-story steel frame and brick bakery.
 Owner—P. Andreuccetti, 580 S 6th St., San Jose.

Architect—Charles McKenzie, Twohy Bldg., San Jose.
Carpentry—Wm. Caldwell, 1241 Hedding St., San Jose.

Brick Work—E. Frouty, 917 Michigan St., San Jose.
 Other awards will be made at a later date.

As previously reported, Steel contract awarded to California Steel Co. 2nd and Harrison Sts., Oakland.

Plans Being Prepared—Contract Awarded.
CREAMERY Cost, \$100,000
BERKELEY, Alameda Co., Cal. Sar

Fabio Ave. near Delaware St.
 One-story creamery and store.
 Owner—G. E. Heath, 2336 Garber St., Berkeley.

Plans by Contractor.
 Contractor—E. H. Wendt, 2116 Allston Way, Berkeley.

Contract Awarded.
PACKING HOUSE Cost, \$10,000
GILROY, Santa Clara Co., Cal.
 One-story wood packing house (553 200 ft.; gravel roof).

Owner—Aielo Bros., North San Pedro St., San Jose.

Architect — Charles McKenzie, Twory Bldg., San Jose.
 Contractor—A. Giacalone, 240 Race St., San Jose.
 Such bids are in and will be awarded shortly.

Preparing Preliminary Plans.
BAKERY Cost, \$—
SAN FRANCISCO Location Withheld.
 One-story brick bakery.
 Owner—Withheld.
 Architect—E. Neumarkel, 544 Market St., San Francisco.

Plans Being Completed.
HANGAR, ETC. Cost, \$65,000
SACRAMENTO, Sacramento Co., Cal.
 Municipal Airport.
 Steel frame and wood hangar and air terminal station.
 Owner — City of Sacramento, H. G. Denton, city clerk.
 Architect—Starks & Flanders, Forum Bldg., Sacramento.
 Bids will be advertised for shortly.

GARAGES AND SERVICE STATIONS

Contract Awarded.
SERVICE STATION Cost, \$10,000
SAN FRANCISCO, Eighth Ave. and Fulton Street.
 One-story super service station.
 Owner—Shell Oil Company.
 Plans by Eng. Dept. of Owner.
 Contractor—Barrett & Hilt, 918 Harrison Street.

Sub-Contracts Awarded.
AUTO SALES BLDG. Cost, price, \$53,915
SAN FRANCISCO, Mission Street near Ney Street.
 One- and two-story steel frame and reinforced concrete auto sales and service building.
 Owner—W. E. Street, 251 Magellan Avenue.
 Architect—Irvine & Ebbets, Call Bldg.
 Contractor—William Spivock, Hobart Building.
Incavation—Plombo Bros., 124 Parker Street.
Concrete—Golden Gate Atlas Materials Co., 16th and Harrison Sts.
 Other awards will be made shortly.

Sub-Contracts Awarded.
SERVICE STATION Cost, \$10,000
SAN FRANCISCO, Eighth Ave. and Fulton Street.
 One-story super service station.
 Owner—Shell Oil Company.
 Plans by Eng. Dept. of Owner.
 Contractor—Barrett & Hilt, 918 Harrison Street.
Plumbing—Fisher & Wolfe, 205 Tehama Street.
Steel Sash—Michel & Pfeffer Iron Works, Harrison and 10th Sts.
 Other awards will be made shortly.

Now Bidder.
SERVICE STATION Cost, \$11,500
SAN FRANCISCO, Nineteenth Ave. and Lincoln Way.
 One-story brick super service station.
 Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
 Architect — Masten & Hurd, Shreve Bldg., San Francisco.
 Now Bidder—Reavey & Spivock, Shell Oil Bldg., San Francisco.

GOVERNMENT WORK AND SUPPLIES

SAN FRANCISCO—Until March 19, P. M., bids will be received by U. S. Forest Service, Ferry Bldg., to furnish and deliver 59 trucks ranging in capacity from one-half to ten tons. Specifications obtainable from above office.

TUCSON, Ariz.—In addition to those previously reported, following are prospective bidders for Patients' Building, etc., in connection with U. S. Veterans' Hospital at Tucson, bids for which will be opened by the U. S. Veterans' Bureau, Arlington Bldg., Washington, D. C., on March 23:
 Shapleigh Hardware Co., St. Louis, (hardware).
 Adams Constr. Co., Washington, (general contract).
 C. S. Lumbie & Co., 817 Amarillo Bldg., Amarillo, Texas.
 Barrett & Hilt, 918 Harrison St., San Francisco.
 E. Lamkie & Co., Silver City, Nev.
 Don C. Orloff, Hollywood, Calif.
 Andy Sordel, 722 Magnolia St., Long Beach, Calif.
 Yeager & Sons, Danville, Ill., (general contract).
 David Lupton's Sons Co., Shoreham Bldg., Washington, D. C., (windows).
 Messer Bros. Iron Co., 421 S. 6th St., St. Louis, (windows).
 Jay J. Garfield Building Co., Tucson, Ariz., (general contract).
 Logan Co., Louisville, Ky., (mill-work).
 J. S. Thorne Co., Allegheny Ave and 20th St., Phila., (windows).
 Warr Elevator Co., Cincinnati, (elevator).
 G. M. Gest, Woolworth Bldg., N. Y., City.
 J. Hokom Co., 4312 S. Broadway, Los Angeles, (plumbing).
 Moffatt Machinery Mfg. Co., Charlotte, N. C., (elevator).
 Phelps-Drake Co., Inc., Metropolitan Life Bldg., Minneapolis, (general contract).
 Ray A. Phelps, Beloit, Wis., (electricity).
 Orndorff Constr. Co., 437 South Hill St., Los Angeles.
 H. Mayson, 9315 South Cooper St., Los Angeles.
 M. M. Sundt, 550 N. Park Ave., Tucson, Ariz., (general contract).
 Chas. M. Ewing, Coral Gables, Fla., (plumbing and heating).
 Dr. Trollet Steel Products Co., Barr Bldg., Washington, (windows).
 Herbert F. Brown, Box 70, Tucson, Ariz., (general contract).
 George H. Wentz, 1309 N. St., Lincoln, Neb., (plumbing and heating).
 Messer Bros. Iron Co., St. Louis, Mo., (windows).

SAN FRANCISCO—Jones Bros. Asbestos Supply Co., 370 2nd St., at \$354 awarded contract by Constructing Quartermaster, Fort Mason, for furnishing and setting in place boiler and pipe covering for two 100-hp. boilers and piping at Fort McDowell.
 Following is a complete list of bids:
 Jones Bros. Asbestos Supply Co. \$354
 Tiley Mfg. Co. 385
 Western Asbestos Magnesia Co. 395
 Asbestos Co. of California 405
 Plant Rubber & Asbestos Co. 465

HAWTHORNE, Nev.—Until March 24, 10 A. M., bids will be received by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., to furnish motor ambulance for Naval Ammunition Depot at Hawthorne. Specifications obtainable from Navy Purchasing Office, 100 Harrison St., San Francisco.

VALELEJO, Solano Co., Cal.—U. S. Treasury Department will shortly advertise for bids for a site on which to locate the proposed new post office building. It is expected the bids will be opened in Washington on April 7, according to Henry F. Stabl, Vallejo postmaster.

Contract Awarded.
GARAGE Cost, price, \$1,959
SAN FRANCISCO, Letterman Hospital.

Convert concrete stable into garage (steel beams and steel gutters).
 Owner—United States Government.
 Architect—Construction Quartermaster, Fort Mason.
 Contractor—P. F. Speldel, 185 Stevenson Street.

SAN DIEGO, Cal.—Until 11 A. M., March 27, bids will be received by the Public Works Department, Eleventh Naval District, San Diego, for cabinets and fixtures for dispensary at the Naval Operating Base (Hospital), San Diego. Specifications No. 6381. Bidding data obtainable from Commandant, Eleventh Naval District, Foot of Broadway, San Diego, upon deposit of a check or postal money order for \$10 to be made payable to the Chief of the Bureau of Yards and Docks.

SAN DIEGO, Cal.—F. L. Stimson Constr. Co., 7243 Olivetas St., La Jolla submitted low bid at \$301,545 to the Public Works Department of the Eleventh Naval District at San Diego for the construction of barracks at the Naval Operating Base (Training Station), San Diego. Specification No. 6419. Recommendation will probably be made that the contract be awarded to the low bidder but it has not been determined on what proposal the award will be based. There will be three 2-story buildings in the group, each an H-shaped structure with extreme dimensions, 145x178 feet. Reinforced concrete frames and floor slabs, hollow tile filler walls and partitions.

SAN FRANCISCO—Until March 30, 3 P. M., bids will be received by U. S. Engineer Office, Customhouse, for drydocking, painting and repairing U. S. Dredge "A. Mackenzie." Specifications obtainable from above office.

Plans Being Figured—Bids Close April 6, 2 P. M.
PAINTING ETC. Cost, \$—
SANTA CRUZ, Santa Cruz Co., Cal. Interior and exterior painting and repairs and light fixtures for U. S. Postoffice.
 Owner—U. S. Government.
 Plans by Supervising Architect, Treasury Dept., Washington, D. C.
 Bids for this work will be opened by Fred R. Howe, Custodian of the U. S. Postoffice at Santa Cruz, on April 6. Plans are on file in the post-office at Santa Cruz.

MARE ISLAND, Cal.—As previously reported, Otis Elevator Co., 1 Beach St., San Francisco, at \$6236 submitted low bid under Specification No. 6311, to the Bureau of Yards and Docks, Navy Department, Washington D. C., to furnish and install one automatic electric passenger elevator complete at the Navy Yard Hospital, Mare Island. A complete list of the bids received follows:
 Otis Elevator Co., Washington, item 1, \$6236; 2, add \$1200.
 Pacific Elevator & Equipment Co., 45 Rauch St., San Francisco, item 1, \$6737; 2, \$7861
 Shepard Elevator Co., Cincinnati, Ohio, item \$7200.
 S. Heller Elevator Co., Milwaukee, Wis., item 1, \$7229; 2, add \$1498.

SAN FRANCISCO—Jones Bros. Asbestos Co., 370 2nd St., at \$192 awarded contract by Constructing Quartermaster, Fort Mason, to furnish and set in place boiler and pipe covering for one 125-hp. boiler and piping at Fort McDowell.

FORT LEWIS, Wash.—Until March 27, bids will be received by Constructing Quartermaster, Fort Lewis, to construct sixteen non-commissioned officers' quarters. Plans obtainable from above on deposit of \$15, returnable.

SAN FRANCISCO.—William Anglin, 1755 O'Farrell St., awarded contract at \$55,600 by Constructing Quartermaster, Fort Mason, for plastering in Officers' Quarters No. 8 at Fort Miley.

HOQUIAM, Wash.—In addition to those previously reported, following are prospective bidders for postoffice building, bids for which will be opened April 1, by the Supervising Architect, Treasury Department, Washington, D. C.:

- J. E. Bonnell & Son, Washington Bldg., Tacoma, Wash.
- A. M. Lundberg, St. Louis.
- Sheble Construction Co., Alaska Building, Seattle, Wash.
- Thieme, Morris, Hansen & Rowland, Inc., Alaska Bldg., Seattle, Wash.

Contracts Awarded.
ALTERATIONS Cost, \$—
SAN FRANCISCO. Letterman Hospital.

Additions to Wards D-1 and E-1 (addition to five private rooms in each ward).

Owner—United States Government.
Architect—Construction Quartermaster, Fort Mason.

Work comprises Nurses' call system, plumbing and radio installation, linoleum floors, repair to woodwork, etc.

General Work
Gauley & Yount, 299 22d Ave., \$4,195
Electrical Work
Johnson Elec. Co., 753 Monterey Bldg., \$970

Linoleum
Conklin Bros., Inc., 2400 Geary Street, \$1,485

Plumbing
Frank Davison, 65 Chesley St., \$796

Preparing Preliminary Plans.
ADDITION Cost, \$—

BERKELEY. Alameda Co., Cal. Milvia and Kittredge Sts.

Two-story and basement addition to postoffice building.

Owner—U. S. Government.
Architect—Supervising Architect, Washington, D. C.

To Ask Bids Shortly.
ADDITION \$115,000 Appropriated
SAN FRANCISCO. Letterman General Hospital.

Three-story reinforced concrete addition to Ward No. 111 and two-story reinf. concrete ward building (No. 10).

Owner—U. S. Government.
Architect—Constructing Quartermaster, Fort Mason.

Rubber floors, terrazzo floors, tile wainscoting, radio system, electric fixtures, nurses' call system; all modern hardware, sterilization system, electric passenger elevator, modern hospital plumbing and considerable marble work.

PEARL HARBOR, T. H.—Until Apr. 8, under Specifications No. 6128, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for dredging 41,000 cu. yds. of material at Naval Operating Base, Pearl Harbor. Specifications obtainable from above on deposit of \$10, checks for same to be made payable to Chief of the Bureau of Yards and Docks.

Contract Awarded.
ELEVATOR SHAFT Cost, \$10,075
MARE ISLAND, Calif.

Furnish and install elevator shaft in Mare Island Navy Yard Hospital.

Owner—U. S. Government.
Plans by Bureau of Yards and Docks, Navy Dept., Washington, D. C.
Contractor—Sullivan & Sullivan, 3927 39th Ave., Oakland.

The contract was awarded on item (1) at \$3,939 for new complete and adding \$379 for substitution of hollow metal doors for metal covered doors. The shaft and lobby will be built on the exterior of the building extending

from the ground floor to the roof with the openings at five floors. The work involves excavation, concrete work, steel framing, hollow tile, stucco, wood roof framing, tile roofing, electric work and heating.

MARE ISLAND, Cal.—Bureau of Yards and Docks, Navy Department, Washington, D. C., is completing Specification No. 6469, for two 25-ton floating steel derricks of stiff-leg type with bull wheel having steel pontoons, steam engines, and oil burning boilers; one delivered to navy yard, Mare Island, Calif., and the other to naval operating base (destroyer base), San Diego, Calif.

SAN FRANCISCO.—Until March 23, 10 A. M., under Circular No. 928-31-221, bids will be received by Quartermaster Supply Officer, Fort Mason, to furnish and deliver office furniture, including bookcases, office and typewriter chairs, filing cabinets, card index sections, desks, typewriter tables, all of light golden, quarter-sawn oak; fireproof olive green finish cabinets of mesh reinforced insulation type, equal and similar to Safe Cabinet Co.'s Safe-File.

MONTEREY COUNTY, Cal.—See "Streets and Highways," this issue. Bids wanted by U. S. Forest Service, Ferry Bldg., San Francisco, for grading and installing culverts in 6.6 miles of road in Santa Barbara National Forest.

SAN LUIS OBISPO, Cal.—Federal Government has provided an appropriation of \$3486 for extension of the electric lighting system at the National Guard Training Camp at San Luis Obispo.

SAN FRANCISCO.—Until March 18, under Circular No. 22, bids will be received by Constructing Officer, Medical Section, San Francisco General Depot, Fort Mason, to furnish and deliver 1100 box shooks, 1000 bd. ft. crating lumber and 2000 lbs. excelsior.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver as noted in the following schedules, further information being available from the Navy Purchasing Office, 100 Harrison St., San Francisco:

Bids Close March 24
East and west yards, glasses for airports, etc., sch. 5242.

Mare Island, 26,000 lbs rolled sheet zinc; sch. 5272.

Puget Sound, 1 motor driven rated swing lathe, 1 swing lathe; sch. 5276.

San Francisco, 1 motor-driven band saw, sch. 5280.

Mare Island, 1 direct motor-driven cut-off saw, sch. 5279.

Mare Island, 1 motor-driven single end turning machine, sch. 5277.

San Diego, 1 micro-metallograph, complete with illuminating system with automatic feed arc lamp, sch. 5275.

Mare Island, 8,300 lbs sheet brass; sch. 5292.

Mare Island, 1,700 lbs. copper pipe; sch. 5298.

Mare Island, 1 hand operated anchor windlass; sch. 5299.

Mare Island, 5 safes; sch. 5294.

Mare Island, 1 motor-driven single cylinder surfacer machine; sch. 5293.

Puget Sound, 1 motor-driven dovetailing machine; sch. 5287.

Mare Island, 1 motor-driven automatic mortiser; sch. 5282.

SAN FRANCISCO.—E. Sugarman, 3624 Geary St., at \$100 awarded contract by Constructing Quartermaster, Fort Mason, for converting the boiler in Officers' Quarters No. 8 at Fort Miley, from coal turning to gas burning.

March 10, 1931
Prospective Bidders.
ELEVATOR Cost, \$—
SAN FRANCISCO. Letterman General Hospital (Kitchen No. 9).
Install electric freight elevator.

Owner—U. S. Government.
Architect—Constructing Quartermaster, Fort Mason, San Francisco.

Following companies have secure plans:

- Otis Elevator Co., 1 Beach St.
- Pacific Elevator & Equipment Co., 45 Raush St.
- San Francisco Elevator Co., 36 Folsom St.
- Spencer Elevator Co., 166 7th St.
- Price Bldg. Specialties Co., 683 Howard St.

Bids are to be opened March 18, 10 A. M.

HAWTHORNE, Nev.—See "Reservoirs and Dams," this issue. List of prospective bidders to construct Ca Creek Dam in connection with Navy Ammunition Plant.

HALLS AND SOCIETY BUILDINGS

Sub-Bids Being Taken.
AUDITORIUM Cost, \$30,000
SAN JOSE. Santa Clara Co., Calif.
Nagle Avenue.

One- and two-story frame and stucco auditorium.

Owner—Rosicrucian Order, Nagle Ave., San Jose.

Plans by Mr. Anderson.
Contractor—Paul N. Anderson, 1214 Lincoln St., San Jose.

Plumbing—John Peabody, 690 Morse San Jose.

Mill Work and Lumber—Chase Lumber Co., 547 W. Santa Clara, San Jose

Sub-bids are being taken on other portions of the work.

Plans Being Figured—Bids Close March 16.

GYMNASIUM Cost, \$25,000
LYTTON, Sonoma Co., Cal.
One-story wood frame gymnasium with steel trusses.

Owner—Salvation Army.
Architect—Douglas Stone, 337 17th St. Oakland.

Owner Will Erect By Day's Work.
CLUB HOUSE Cost, \$—
PALO ALTO, Santa Clara Co., Cal.
On Bay Frontage.

One-story frame club house, 24x40 ft. Owner—Palo Alto Yacht Club, Palo Alto.

Architect—Private plans.

Building will rest on a pile foundation and will have tower 28 ft high clubroom, locker room and kitchen if provided for.

HOSPITALS

Preparing Preliminary Plans.
ADDITION Cost, \$17,000
OAKLAND, Alameda Co., Cal. 13th and Poplar Streets.

Addition to detention home.
Owner—County of Alameda.

Architect—H. H. Meyers, Kohl Bldg. San Francisco.

LOS ANGELES, Cal.—Contracts for the high pressure refrigeration for the low pressure refrigeration for the new Acute Unit of the General Hospital were awarded by the Los Angeles County Supervisors March 9, as follows:

High Pressure Refrigeration—T. G. Gay Engineering Co., 2650 Santa Fe Ave., at \$45,274, the price being based upon the bid of \$54,250, but omitting cold water cooling and circulating system, which makes a deduction of \$8974.

Low Pressure Refrigeration—T. G. Parker Ice Machine Co., 2600 Santa Fe Ave., Vernon, at \$75,640.

Sub-Contracts Awarded.
KITCHEN, ETC. Cost, \$172,740
BERKELEY, Alameda Co., Cal.
 One-story reinforced concrete kitchen and commissary building and two-story reinforced concrete boys' and girls' dormitory.

Owner—State of California.
 Architect—George E. McDougall, state architect, Public Works Building, Sacramento.

Contractor—Monson Bros., 475 6th St., San Francisco.

Kitchen and dormitory building will have tile partitions, steel and wood roof construction and tile roof; total floor area 14,000 sq. ft.

Boys' and girls' dormitory will have tile partitions, wood roof construction and tile roof; total floor area 42,700 square feet.

Mill Work—National Mill & Lumber Co., 400 High St., Oakland.

Rock & Sand—Oakland Building Material Co., 5000 Broadway, Oakland
Elevator—Spencer Elevator Co., 156 7th St., San Francisco.

Lumber—Hogan Lumber Co., 2nd and Alice Sts., Oakland.

As previously reported, grading awarded to A. Baker, Burlingame; reinforcing steel and steel sash to Soule Steel Co., Rialto Bldg., San Francisco; millwork to Sunset Mill & Lumber Co., 400 High St., Oakland; plumbing, heating and ventilating to G. A. Schuster, 3712 Grove St., Oakland; electrical work to Geo. Woolf, 795 Alcatraz Ave., Oakland.

Plans To Be Prepared.
HOSPITAL Cost, \$—
PITTSBURG, Contra Costa Co., Cal.
 Not Selected.

Hospital height and type of structure (not determined).

Owner—Corporation to be organized (Dr. H. E. Peters, Pittsburg, chairman of the committee, in charge).

Architect—Not Selected.

Contracts Awarded.
BOYS' BLDG Cost, \$—
WHITTIER, Los Angeles Co., Cal.
 State School Grounds.

Two-story brick boys' building.

Owner—State of California.
 Architect—State Department of Public Works, Division of Architecture, Geo. E. McDougall, State Architect, Public Works Bldg., Sacramento.

The building is a two-story brick structure with frame interior construction and tile roof. The total floor area is approximately 8500 sq. ft.

General Work
 Gene B. Foster, Los Angeles, 25,052.

Electric Work
 Albright Electric Co., Long Beach, 3737.

Mechanical Work
 Coney & Winterbottom, Los Angeles, \$5060.

Preparing Preliminary Plans.
HOSPITAL Cost, \$500,000
YOUNTVILLE, Napa Co., Cal.
State Veterans' Hospital

Owner—State of California.

Architect—Frederick H. Meyer, 525 Market St., Francisco.

SAN FRANCISCO.—Robert Swain, acting president of Stanford University, has announced receipt of a gift of \$2,500,000 for the University by a donor whose name is not disclosed. The money is to finance construction of the University Medical School, replacing the present structure at Sacramento and Webster Sts.

The gift, however, is contingent upon the university's raising an additional \$1,250,000 to be used as an endowment fund for the medical school. It is generally understood that plans for this project will be prepared by Architects John B. Kewell and Arthur Brown, Jr., 251 Kearny St., San Francisco. Confirmation of this, however,

could not be secured through the offices of the architects.

Preparing Plans.
HEALTH CENTER Cost, \$60,000
TORRANCE, Los Angeles Co., Cal.
 Carson St. and Plaza del Amo.
 Health center building (126x122 ft.).
 Owner—County of Los Angeles.

Architect—Karl Stuck, County Architect, Hall of Records, Los Angeles

Plans Being Prepared.
HOME Cost, Approx \$250,000
SAN FRANCISCO. University and Cambridge Sts.

Two and three-story reinforced concrete and brick Home For Aged.

Owner—Lick Old Ladies Home.

Architect—Alfred Coffey and Martin Rist, Pehlan Bldg., San Francisco.

ELDRIDGE, Sonoma Co., Cal.—Peterson Oven Co., Pacific Bldg., San Francisco, at \$3040 awarded contract by State Department of Public Works, Division of Architecture, to construct an oven at the Sonoma State Home at Eldridge.

SAN FRANCISCO—Public Buildings and Lands Committee of the Board of Supervisors contemplates erection of a new detention home to replace the present building in Geary Street, condemned as inadequate.

MERCED, Merced Co., Cal.—Merced Hardware Co., at \$1500 awarded contract by county supervisors for electric wiring at the county hospital.

Plans Being Figured—Bids Close Apr. 8, 2 P. M.
DORMITORY Cost, \$—
SAN LUIS OBISPO, San Luis Obispo Co., Cal.

Two-story concrete boys' dormitory (floor area 7600 sq. ft.)

Owner—State of California.

Plans by State Department of Public Works, Division of Architecture, Geo. E. McDougall, State Architect, Public Works Bldg., Sacramento.

The structure will have concrete walls and wood frame interior construction and tile roof. Separate bids will be entertained for the following segregate parts of the work and combinations thereof:

1. General Work, embracing all branches of the construction other than Plumbing, Heating and Electrical

2. Electrical Work.

3. Plumbing Work.

4. Heating Work.

5. Combined Plumbing and Heating Work.

HOTELS

Segregated Bids Being Taken.
ALTERATIONS Cost, \$20,000
SAN FRANCISCO. 16 Turk St. (State Hotel).

Alterations to interior of hotel (new painting, plastering and new partition work).

Owner—Arnold Haase, 1375 Potrero Avenue.

Plans by Grimes & Schoening, Balovich Bldg., San Mateo.

Bids are being received by owner.

ICE AND COLD STORAGE PLANTS

Contract Awarded.
PRE-COOLING PLANT Cost, \$50,000
WILLOTTA, Solano Co., Cal.

Pre-cooling plant

Owner—Sacramento Northern R. R. Co., 11th and I Sts., Sacramento.

Architect—Eng. Dept. of Owner.

Contractor—Campbell Constr. Co., 800 R St., Sacramento.

POWER PLANTS

SAN FRANCISCO—Chas. A. Langlais, 472 Tehama St., at \$20,936.44 awarded contract for distribution of electricity and The Turner Co., 329 Tehama St., at \$25,283 awarded contract for distribution of steam and air by Regents of the University of California, Berkeley, on the San Francisco Campus of the University of California, Parnassus and Third Aves.

GRIDLEY, Butte Co., Calif.—Until April 6, 8 P. M., bids will be received by J. L. Lewis, city clerk, to furnish telegraph poles for municipal power department, as follows:

Ten 30-ft. poles; 6-in. top, ½-in. butt treated;

Six 55-ft. poles, 8-in. top, do;

Two 60-ft. poles, 9-in. top, do.

Balance of order to make up minimum carload, involving

40-ft. poles, 8-in. top, ½-in. butt treated.

All to be round Western Red Cedar guaranteed with Western Red Cedar Association Specifications, delivered f.o.b. Gridley. Certified check 10%, payable to city clerk required with bid.

GLENDALE, Los Angeles Co., Cal.—The following awards have been made by the city of Glendale for power poles: J. H. Baxter & Co., Ferris Ave., Long Beach, 290 40-ft. Douglas fir and Western Red Cedar poles at \$16.95 each, 200 of 50-ft. length at \$24.95, and 40 of 60-ft. length at \$28.40; General Electric Co., 5201 Santa Fe Ave., Los Angeles, 70 of 40-ft. creosoted yellow pine poles at \$18.00 each.

HOLTVILLE, Imperial Co., Cal.—Southern California Telephone Co. is planning to expend approximately \$37,000 for new equipment in the vicinity of Holtville, in the area east of the Alamo River. The work will require 600 transmission poles and 42 miles of copper wire.

MILLBRAE, San Mateo Co., Cal.—Pacific Gas & Electric Co., 245 Market St., San Francisco, has provided \$60,000 to finance rebuilding of the Millbrae sub-station.

LOS GATOS, Santa Clara Co., Cal.—Pacific Gas & Electric Co., 245 Market St., San Francisco, has appropriated \$15,936 for the purchase of additional equipment for the Los Gatos Sub-station.

SAN JOSE, Santa Clara Co., Cal.—Pacific Gas & Electric Co., 245 Market St., San Francisco, has appropriated \$10,050 for the purchase of additional transformers for the Alamo Rock Sub-station and \$34,245 to replace poles in the San Jose district.

REDWOOD CITY, San Mateo Co., Cal.—Pacific Gas & Electric Co., 245 Market St., San Francisco, has provided funds for the following improvements in Redwood City: \$19,255 for new circuits; \$11,750 for relocation of lines; \$25,000 for additional facilities at Redwood Sub-station and \$256,000 for changes in transmission lines.

LAS VEGAS, Nev.—Union Pacific Railroad will install a 1500 KVA generation plant at the company's Las Vegas power plant. The new equipment, which will cost about \$78,000, will include a turbine, generator, condenser, overhead crane, switchboard and steam line.

SAN FRANCISCO.—Following bids received by Leonard S. Leavy, city purchasing agent, under Proposal No. 696, to furnish automatic starting compensators for the Department of Public Works:

A-1 type CR 7051-J3 General Electric automatic starting compensator for use with General Electric 7½-hp, 220-volt, 2-phase, 60-cycle motor, with thermal overload relays, under-voltage protection, PB control with definite time limit acceleration.

B-7 type CR 7051-J3 General Electric automatic starting compensators for use with General Electric 10-hp, 220-volt, 2-phase, 60-cycle motor, with thermal overload relays, under-voltage protection, PB control with definite time limit acceleration.

C-5 type CR 7051-J3 General Electric automatic starting compensators for use with General Electric 15-hp, 220-volt, 2-phase, 60-cycle motor, with thermal overload relays, under-voltage protection, PB control with definite time limit acceleration.

D-2 type SR 7051-J3 General Electric automatic starting compensators for use with General Electric 20-hp, 220-volt, 2-phase, 60-cycle motor, with thermal overload relays, under-voltage release, and PB control with definite time limit acceleration.

Electric Corp. (a) Cutter Hammett No. 9621, H-193, \$110.52; (b) same, \$110.52; (c) H-194, \$110.52; (d) same, \$110.52; 10 days.

Westinghouse Electric & Supply Co. (a) class 11-500 Type AM magnetic style, No. 480658, \$110.70; (b) No. 480659, \$110.70; (c) same, No. 480660, \$110.70; (d) same, No. 480661, \$120.60; 3 to 6 days.

Const Electric Supply Co. (a) \$104; (b) \$104; (c) \$104; (d) \$104; days. Westinghouse Electric & Mfg. Co. (a) Westinghouse Class 11-500 No. S-480658, \$92.25; (b) same, No. S-480659, \$92.25; (c) same, No. 480660, \$92.25; (d) same, \$100.50; 3 to 4 weeks.

General Electric Co. (a) net educational price, f.o.b. San Francisco, \$95.25; (b) same, \$95.25; (c) same, \$95.25; (d) same, \$103.50; 18 days.

Wagner Electric Co. (a) factory stock, \$110.70; (b) same, \$110.70; (c) same, \$120.60; (d) same, \$120.60; two weeks.

General Electric Supply Co. (a) \$114.30; (b) \$114.30; (c) \$114.30; (d) \$124.20; 21 to 28 days.

Listenwaller & Gough (a) Cutler-Hammer Bulletin, 9621 AC, \$110; (b) same, \$110; (c) same, \$110; (d) same, \$110; 10 days.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Sub-Contracts Awarded.
LIBRARY Cont. price, \$8531 OILDAL, Kern Co., Cal.
One - story brick branch library, 60x 27-ft.; tile roof.

Owner—County of Kern, F. E. Smith, county clerk.
Architect—Edwin J. Symmes, Haberfeld Bldg., Bakersfield.
Contractor—Opperman & Hullett, 1327 Orange Drive, Bakersfield.

Spanish type of architecture, brick construction, plaster exterior, tile roofing, wood and cement floors, etc.
Plastering—A. Simpson.
Painting—D. Moran.
Sheet Metal—Gundlack Plumbing Co.
Electric Work—Advance Electric Co.
Plumbing—Frescott Plumbing Co.
Heating—W. M. Fisher.
Tile Roofing—Kern County Roofing Co.
Structural Steel—Hopper Mark Co.
All of Bakersfield.

Bids To Be Asked March 15th on Masonry Work, Etc.
LEGION BLDG. Cost, \$2,500,000 SAN FRANCISCO. Civic Center.
Four - story and basement concrete class A Legion Building.
OPERA HOUSE Cost, \$2,500,000 Six-story class A opera house, seating capacity 4,000; standing room 500.
Owner—City and County of San Francisco (S. F. War Memorial).
Architect—G. A. Lansburgh, 140 Montgomery St., and Arthur Brown, 251 Kearny St.

Manager of Const.—Lindgren & Swinerton, Inc., 225 Eush St.
Structural steel bids held under advisement. Award will probably be made March 12th.

Plans Being Prepared.
CITY HALL Cost, \$10,000 FAIRFIELD, Solano Co., Cal.

One-story reinforced concrete City Hall with tile roof.
Owner—City of Solano (J. A. Gerevas, Mayor).

Architect—William E. Coffman, Forum Bldg., Sacramento.
Bond election will be held to finance construction.

Room to be used by the fire department for equipment to be 30 by 45 feet, and the council chambers will be 18 by 26 feet, according to the plans. The general office will be 12 by 14 feet; a private office 12½ by 15; bedroom 13 by 18 feet, with numerous small rooms including restrooms, public hall and a large fireproof concrete vault for records.

RESIDENCES

Contract Awarded.
ALTERATIONS Cost, \$12,000 SAN FRANCISCO. Pacific Ave. bet. Presidio Ave. and Walnut St.

Alterations to residence.
Owner—Ralph Lyon.
Architect—Warren Perry, 260 California Street.

Contractor—J. Dawson, cde architect.

Plans Being Prepared.
BUNGALOWS Cost, \$— CLOVERDALE, Sonoma Co., Cal.
Eight 1-story frame and stucco bungalows.

Owner—Mutual Home Builders' Assn., Santa Rosa.
Plans by Owners.

The company, upon completion of these structures, will build additional homes in Willits, Grass Valley and Nevada City.

Preparing Preliminary Plans.
RESIDENCE Cost, \$— PALO ALTO, Santa Clara Co., Calif. Location Withheld.

Two-story and basement frame and stucco residence (7 rooms).
Owner—Withheld.
Architect—Henry H. Gutterson, 526 Powell St., San Francisco.

Preparing Preliminary Plans.
RESIDENCE Cost, \$— BERKELEY, Alameda Co., Cal.
Two-story and basement frame and stucco residence.

Owner—Withheld.
Architect—Henry H. Gutterson, 526 Powell St., San Francisco.

Plans Being Completed.
RESIDENCE Cost, \$— MONTEREY, Monterey Co., Cal.
Two-story and basement frame and stucco residence (12 rooms and 3 baths).

Owner—Arthur Mertz, Monterey.
Architect—William O. Raiguel, Hotel Del Monte, Monterey.
Plans will be completed in one week. Whether bids will be called for or not is indefinite at this time.

Construction Postponed Indefinitely.
RESIDENCE Cost, \$7500 BERKELEY, Alameda Co., Cal. No. 706 Hilldale Avenue.

One and one-half-story and basement frame and stucco residence (6 rooms; English type).
Owner—S. C. Couper, Berkeley.

Plans by Mr. Walker.
Contractor—J. M. Walker, 1709 Grove St., Berkeley.

Wood panel walls, shingle roof, gas furnace, concrete double garage. Sub-bids will be taken shortly.

Sub-Figures Being Taken.
RESIDENCE Cost, \$5000 PIEDMONT, Alameda Co., Cal. Woodland Way.

Two-story and basement frame and stucco residence (7 rooms, 2 baths English type).
Owner—Miss Edna Chase.

Plans by J. M. Walker.
Contractor—J. M. Walker, 1709 Grove St., Berkeley.

Shingle roof, gas heating system. Full tile baths, interior stucco walls. Shingle garage.
Excavation—J. H. Harris, 2005 Vine St., Berkeley.

SANTA BARBARA, Cal.—Tri-Guaranty Building Co. has the contract for erecting a frame and stucco dwelling on Xs Ysidro lane for E. F. Sherwin, 1531 E California St., Pasadena; location \$11,000.

Contract Re-Awarded.
RESIDENCE Cost, \$35,000 WATSONVILLE, Santa Cruz Co., Cal.
Two-story and basement frame, stucco and brick residence (12 rooms, 4 baths).

Owner—W. E. Cockroft, Watsonville.
Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

Contractor—T. H. Rosewall, Watsonville.

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IRON WIRE Fence and Gates

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Sub-Contracts Awarded.
RESIDENCE Cost, \$12,000
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and
stucco residence (8 rooms and 2
system).

Owner—W. G. Hunt.
Architect—Pring & Lesswing, 605 Mar-
ket St., San Francisco.

Contractor—Wm. Short, 2121 Waverly
St., Palo Alto.

Concrete Materials—H. E. Casey Co.,
San Mateo.

Excavation—H. E. Casey Co., San
Mateo.

Lumber—Sunset Lumber Co., 400 High
St., Oakland.

Interior Tile—Malott & Peterson, 3221
20th St., San Francisco.

Preparing Working Drawings.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.

Two-story and basement rustic resi-
dence (7 rooms).
Owner—C. Wesley Toy, 760 S-Ninth
St., San Jose.

Architect—Blinder & Curtis, 535 W-
San Carlos St., San Jose.
Bids will be taken in three weeks.

Preparing Working Drawings
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.

Two-story and basement frame and
stucco residence.
Owner—Dr. P. A. Brancatto, 1266
Naglee Ave., San Jose.

Architect—Blinder & Curtis, 35 W-
San Carlos St., San Jose.
Bids will be taken in three weeks.

Plans Being Figured By Selected List
of Contractors.

ALBERTA TIONS Cost, \$4000
WALNUT CREEK, Contra Costa Co.

Alterations and additions to frame and
stucco residence (add two rooms
and baths, etc.).

Owner—J. K. Lockhead, Walnut Creek
Architect—W. E. Milwain, Pacific
Bldg., Oakland.

Work involves tile work, case work,
concrete foundations, cement work,
etc.

Plans Being Completed—Contract
Awarded.

RESIDENCE Cost, \$20,000
WOODSTOCK, San Mateo Co., Cal.

Two-story and basement frame and
stucco residence (10 rooms and 3
baths).

Owner—Withheld.
Plans by Russell Coleman, 1404 Broad-
way, Burlingame.

Contractor—G. W. Williams Co., 1404
Broadway, Burlingame.

Sub-bids will be taken in ten days.

Plans Being Prepared.
RESIDENCE Cost, \$4750
OAKLAND, Alameda Co., Cal.

Durant Manor, corner 105th St. and
Beverly Blvd.

1½-story and basement frame and
stucco residence (6 rooms).

Owner—C. W. Griffith, 1427 87th Ave.,
Oakland.

Plans by Ralph Wood, 1197 Foothill
Blvd., San Leandro.

Double garage, wood and coal fur-
nace, shingle roof.

Plans Being Prepared.
RESIDENCE Cost, \$4750
OAKLAND, Alameda Co., Cal.

Durant Manor, corner 106th St. and
Beverly Blvd.

1½-story and basement frame and
stucco residence (6 rooms).

Owner—C. W. Griffith, 1427 87th Ave.,
Oakland.

Plans by Ralph Wood, 1197 Foothill
Blvd., San Leandro.
Double garage, wood and coal fur-
nace, shingle roof.

Sub-Contracts Awarded.
SORORITY HOUSE

Cost Approx. \$30,000
BERKELEY, Alameda Co., Cal. Pied-
mont Avenue.

Three-story and basement frame and
stucco sorority house (22 rooms).

Owner—Alpha Delta Phi, Berkeley.
Architect—E. L. Snyder, 2101 Shat-
tuck Ave., Berkeley.

Contractor—H. C. Wang, 5659 Ocean
View Drive, Oakland.

Plumbing—J. M. Dale, 372 24th St.,
Oakland.

Electric Wiring—Rochester Elec. Co.,
2128 University Ave., Berkeley.

Mill Work—Hogan Lumber Co., Second
and Alice Sts., Oakland.

Painting—Todman Decorating Co.,
2321 McKinley Ave., Berkeley.

Tile Work—Rigney Tile Co., 3012 Har-
rison St., Oakland.

Contract Awarded.
RESIDENCE Cost approx. \$15,000
SAN FRANCISCO, Forest Hill.

Two-story and basement frame and
stucco residence.
Owner—Dr. R. Gilbert, 2033 Turk St.
Architect—Henry Smith and Albert
Williams, Humboldt Bank Bldg.

Contractor—Strehlow & LaVole, Web-
ster and Central Sts., Alameda.

Bids Wanted.
RESIDENCES Cost, \$15,000 each
BERKELEY, Alameda Co., Cal. Clare-
mont Pines.

Two two-story and basement frame
and stucco residences (7 rooms
each).

Owner—Withheld.
Architect—E. L. Snyder, 2101 Shat-
tuck Ave., Berkeley.

Bids will be taken in one week.

Plans Being Figured.
RESIDENCE Cost, \$20,000
ATHERTON, San Mateo Co., Cal.

Two-story and basement frame and
stucco residence (10 rooms and 3
baths).

Owner—J. W. Kaufman, 2500 Steiner
St., San Francisco.

Architect—George De Comesnil, Ne-
vada Bank Bldg., Los Angeles.

Bids To Be Taken In One Week.
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Cal. El
Camino Real.

Two-story and basement frame and
stucco residence (7 rooms, 3 baths)

Owner—Withheld.
Architect—E. L. Snyder, 2101 Shat-
tuck Ave., Berkeley.

Plans Being Prepared.
RESIDENCES Cost, \$—
SAN FRANCISCO, W 37th Ave. bet.

Anza and Balboa Sts.

Fourteen 1-story and basement frame
and stucco residences.

Owner and Builder—Michael Costello,
821 34th Ave.

Architect—Not Given.

Construction Started.
RESIDENCE Cost, \$10,000
SANTA CRUZ, Santa Cruz Co., Cal.
Two-story and basement frame and
stucco residence (8 rooms).
Owner—H. E. Murray, Santa Cruz.
Plans by Russell Coleman, 1404 Broad-
way, Burlingame.
Contractor—Withheld.

Contract Awarded.
RESIDENCE Cost, \$12,500
OAKLAND, Alameda Co., Cal. Hock-
ridge Terrace.

Two-story and basement frame and
stucco residence (8 rooms and 2
baths).

Owner—Carl Applebaum, Central Bank
Bldg., Oakland.

Architect—Masten & Hurd, 210 Post
St., San Francisco.

Contractor—Gordon Marchant, 3201
Bruce St., Oakland.

Sub-Bids Being Taken.
RESIDENCE Cost, \$3000
SAN FRANCISCO, Suto Park Ave.

1½-story frame and stucco residence
(7 rooms, 2 baths).

Owner and Builder—George Elkington,
Jr., 1291 33rd Ave.

Architect—Chas. Strothoff, 2274 15th
Street.

The roof, gas heating system, col-
ored tile baths and kitchen.

Sub-Bids Being Taken.
BUNGALOW Cost, \$8000
MILLBRAE HIGHLANDS, San Mateo
Co., Cal.

One-story and basement frame and
stucco bungalow (6 rooms).

Owner & Builder—Arne Arneson, 195
Lowell St., San Francisco.

Architect—Charles Strothoff, 2274 15th
St., San Francisco.

Gas heating system. The wainscot-
ing in bath and kitchen, part tile roof

To Be Done By Day's Work By Owner
RESIDENCES Cost, \$8000 each
BURLINGAME, San Mateo Co., Cal.

Eight 2-story frame and stucco resi-
dences (Spanish type).

Owner—Harry E. Allen, 168 Sutter St.,
San Francisco.

Architect—E. Goeffrey Bangs, 360 17th
St., Oakland.

It is expected to start construction
within one week.

Plans Being Completed.
RESIDENCE Cost, \$10,000
MILLBRAE HIGHLANDS, San Mateo
Co., Cal.

One-story and basement frame and
stucco residence (7 rooms and 2
baths).

Owner and Builder—D. E. Pearson,
1906 Beryman St., Berkeley.

Architect—Chas. Strothoff, 2274 15th
St., San Francisco.

Sub-bids will be taken in two weeks
Canvas walls and ceilings, gas heating
system; colored tile bath and kitchen.

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Building Permit Applied For.
ALTERATIONS Cost, \$12,000
SAN FRANCISCO, Pacific Ave. bet. Presidio Ave. and Walnut St. Alterations to residence.
 Owner—Ralph Lyon.
 Architect—Warren Perry, 260 California Street.
 Contractor—J. Dawson, 1507 Lincoln St., Berkeley.

Plans Being Completed.
RESIDENCE Cost, \$3,000
STOCKTON, San Joaquin Co., Cal.
 One-story and basement frame and stucco residence (5 rooms).
 Owner—W. H. Griffin, Stockton.
 Architect—Victor Galbraith, Elks Bldg., Stockton.
 Shingle roof, gas heating system. Bids will be taken in ten days.

Prospective Bidders.
RESIDENCE Cost, \$6,000
LOS ALTOS, Santa Clara Co., Cal.
 One-story and basement frame and stucco residence (five rooms; tile roof, gas furnace).
 Owner—J. P. McCormack, San Francisco.
 Architect—Chas. McKenzie, Twoby Bldg., San Jose.

Following contractors will submit bids:
 J. B. Gohranson, Gish Rd., San Jose.
 J. Perkins, 34 S-34th St., San Jose.
 H. Bolwin, 1941 Girland St., San Jose.
 The Minton Co., Mt. View.
 Patrick Doyle, Mt. View.
 M. W. Reese, 1210 Minnesota St., St. Jose.
 Bids are to be opened March 20, at 2 P. M.

SCHOOLS

MARTINEZ, Contra Costa Co., Cal.—Fred Bullock, Los Angeles, at approximately \$1,500 awarded contract by Alhambra Union High School District for landscape work and general improvement of the junior high school grounds.

Preparing Preliminary Plans.
SCHOOL Cost, \$70,000
SANTA BARBARA, Santa Barbara Co., Cal. State Teachers' College. Training school.
 Owner—State of California.
 Architect—Wm. E. Edwards, 20 East Figueroa St., Santa Barbara.

Preparing Preliminary Plans.
SCHOOL Cost, \$85,000
ST. HELENA, Napa Co., Cal.
 One-story reinforced concrete school (8 classrooms).
 Owner—St. Helena Union School Dist.
 Architect—W. H. Weeks, 525 Market St., San Francisco.
 Bond election will be held in finance construction.

Preparing Working Drawings.
GYMNASIUM Cost, \$25,000
SAN DIEGO, San Diego Co., Cal.
 Gymnasium and swimming pool at State Teachers' College.
 Owner—State of California.
 Architect—W. H. Wheeler, California Bank Bldg., San Diego.

Bids To Be Taken Within A Few Days.
AUDITORIUM Cost, \$25,000
SACRAMENTO, Sacramento Co., Cal.
 One-story and basement brick auditorium.
 Owner—St. Joseph's Academy.
 Architect—Harry Devine, California State Life Bldg., Sacramento.

Plans Being Prepared.
SCIENCE BLDG. Cost, \$65,000
SANTA ROSA, Sonoma Co., Cal. Ursuline College.
 Two-story frame and stucco science building.

Owner—Ursuline College, Santa Rosa. Plans prepared by the Sisters of the College.
 Bids will be called for shortly.

SAN JOSE, Santa Clara Co., Calif.—Lyons Metal Products Co., Hunter-Dulin Bldg., San Francisco, at \$4.40 each submitted lowest bid to Board of Education to furnish and deliver 800 lockers for the school department. Bids for fixtures were referred to secretary for tabulation. Bids were taken on 14 types of fixtures.
 Following is a complete list of the locker bids:
 Lyons Metal Products Co.,
 San Francisco.....each \$4.40
 Berger Mfg. Co., S. F..... 4.57
 Worley & Co., S. F..... 4.60
 A. H. Meyn Co., S. F..... 4.95
 H. Sichel, San Francisco..... 5.15
 Medart Co., San Francisco..... 5.25
 Patterson-Williams Co., S. F. 6.00
 Durabilt Co., San Francisco. 6.15
 Bids held under advisement.

Contracts Awarded.
ADDITION Cost, price, \$23,522
EMERYVILLE, Alameda Co., Calif.
 Reinforced concrete addition to high school.
 Owner—Emeryville High School Dist.
 Plans by Eng. Dept. of Owner (Care Mr. Hawley), Emeryville.
 Contractor—Geo. J. Maurer, 50 York Drive, Oakland.
Heating—Fearey & Moll, 1075 46th St. Oakland, \$4,987.

Preparing Working Drawings.
SCHOOL Cost, \$70,000
SANTA BARBARA, Santa Barbara Co., Cal. State Teachers' College.
 One-story masonry school building (10 classrooms).
 Owner—State of California.
 Architect—William Edwards, 20 E. Figueroa St., Santa Barbara.

Plans To Be Prepared.
ARTS BLDG. Cost, \$60,000
EUREKA, Humboldt Co., Cal.
 Three-story reinforced concrete industrial arts building (70x120 ft.)
 Owner—Eureka High School District.
 Geo. B. Albee, City Superintendent of Schools.
 Architect—Not Given.

First floor will house automobile repair shops and the second floor the combined woodworking shops for the high school and junior high school and the third floor for the combined mechanical drawing departments of the two units.

Preparing Working Drawings.
ALTERATIONS Cost, \$—
MONTEREY, Monterey Co., Cal.
 Alterations and additions to auditorium and present academic building.
 Owner—Monterey Union High School District.
 Architect—Swartz & Ryland, Spazier Bldg., Monterey.
 Bids will be taken in about three weeks.

PORTLAND, Ore.—Following is a complete list of low bidders for the Rigler School, bids opened by the Board of Education:
 Electric Contract—Ross B. Hammond Const. Co., Public Service Bldg., Portland, \$163,576.
 Electric Work—National Electric Co., 170 Thompson St., Portland, \$45,000.
 Heating and Ventilating—Plumbing & Heating Sales Corp., 170 East 6th St., Portland, \$27,517, and \$15,815, respectively.
 Sprinkler System—Plumbing & Heating Sales Corp., Portland, \$76.

SANTA MARIA, Santa Barbara Co., Cal.—Anton Johnson Co., 517 El Centro St., South Pasadena, submitted the low bid of \$73,800 to the Santa

Maria city school district February 27 and has been awarded the contract for the erection of a new grammar school building on West El Camino St. Krelle Plumbing & Electric Co., 119 W Main St., Santa Maria, was awarded contract at \$11,429.61 for the plumbing, heating and sheet metal work, and The Electric Shop, 113 S Broadway, Santa Maria, was awarded contract at \$174 for electric wiring. Louis N. Crawford, architect, 8 Gibson-Drexel Bldg., Santa Maria. There will be a classroom and administration building and a domestic science building; reinforced concrete construction, clay tile and composition roofing, steel sash, ornamental iron, hardwood and cement floors, tiled toilet rooms, steam heat.

Prospect Bidders.
SCHOOL Cost, \$650,000
SANTA BARBARA, Santa Barbara Co., Cal.
 Two-story reinforced concrete school building (terra cotta, tile roof).
 Owner—Santa Barbara Union High School District.
 Architect—W. H. Weeks, 525 Market St., San Francisco.
 Following contractors have secured plans:

General—Herbert M. Baruch Corp., 1015 Lincoln Bldg., Los Angeles; Wurster Constr. Co., 307 Architects Bldg., Los Angeles; W. L. Snook, 210 La Arcade Bldg., Santa Barbara; Christ Thoren, 5513 W. Fourth St., Los Angeles; C. Haverlant, 1625 E. Fifth St., Long Beach; L. E. Dixon Co., 669 S. Grand Ave., Los Angeles; J. J. Munneemann, 1334 Anacapa St., Santa Barbara; H. Mayson, 9215 S. Hooper Ave., Los Angeles; Orndorff Constr. Co., 127 S. Hill St., Los Angeles.

Plumbing and Heating—Ott Hardware Co., Santa Barbara; Coony & Winterbottom, 2425 Hunter St., Los Angeles; Sweeny & Sons, Santa Barbara.

Bids are to be opened March 23rd, 2 P. M. and will be received separately for each kind of work as follows: (1) general; (2) plumbing; (3) heating and ventilating; (4) electric work. Cashier's or certified check or bond for 10% required. Plans may be obtained from Architect W. H. Weeks, 525 Market St., San Francisco, upon deposit of \$50 for the general set and \$25 for each other set. Plans are on file for examination at the office of the Board of Education, 1235 Chapala St., Santa Barbara. E. Carlotta Dengate, Clerk. There will be an administration and classroom building, shop building and a gymnasium; reinforced concrete construction, terra cotta the roofing, concrete or steel joists, wood and metal lath partitions, hydro-electric elevator, steel windows, cement and hardwood floors, tiled toilet rooms, steam heating system.

Sub-Bids Being Taken.
ADDITION Cost, \$—
SAN FRANCISCO, Fulton Street nr. Stanyan Street.
 Three-story reinforced concrete addition to present building.
 Owner—University of San Francisco.
 Architect—Edward Eames, 353 Sacramento Street.
 Contractor—Barrett & Hilp, 918 Harrison Street.
 Excavation is under way by general contractors.

Contract Awarded.
SCHOOL Cost, \$—
MEDFORD, Oregon.
 Two-story concrete school (28 classrooms, auditorium & gymnasium).
 Owner—City of Medford.
 Architect—Frank C. Clark and Knighton & Howell, associated, U. S. Bank Bldg., Portland.
 Contractor—R. I. Stuart, Medford, \$129,800.

Plumbing—Coffen Bros., Medford, \$9,113.
Heating—Arthur Schmedli, Medford, \$18,917.
Electric Work—Dimitre Electric Co., Portland, \$7,300.

Plans Being Figured—Bids Close Mar. 23, 7:30 P. M.
CAFETERIA Cost, \$—
CAFETERIA, Monterey Co., Cal
 Cafeteria equipment for academic building.
 Owner—Monterey Union High School District.
 Architect—Swartz & Ryland, 260 Spaulder Bldg., Monterey.
 Specified check 10% required with bid. Specifications obtainable from the architect on deposit of \$25, returnable.

See call for bids under official proposal section in this issue.

Plans Being Figured—Bids Close March 16, 10 A. M.
ADDITION Cost, \$—
ENCINAL, Sutter Co., Cal.
 One classroom addition to school.
 Owner—Encinal School District, Mrs. Dewey Clerk.
 Architect—Not Given
 Specified check 20% required with bid. Plans on file in the office of the County Superintendent of Schools at Yuba City and obtainable from clerk on deposit of \$10, returnable.

Plans Being Figured—Bids Close Mar. 19th, 4:30 P. M.
DORMITORY Cost, \$—
MENLO PARK, San Mateo Co., Cal.
 One-story reinforced concrete dormitory for boys.
 Owner—Menlo School (L. S. Howard in charge), Menlo Park.
 Architect—Birge M. Clark, 310 Univer-

Low Bidder.
SCHOOL Cost, \$83,550
ALHAMBRA, Los Angeles Co., Cal.
 Orange Grove and Meridian Aves.
 Reinforced concrete and brick school (16 classrooms, clinic, library, etc.)
 Owner—Los Angeles School District.
 Architect—Richard C. Farrell, 11 S. Second St., Alhambra.
 Low Bidder—Gene B. Foster, 1772 Sycamore Ave., Los Angeles.
Heating and Ventilating—F. B. Jones, Pasadena, \$6488.
Electric Work—Armstrong Electric Shop, Alhambra, \$5888.
Painting—Pohl-Brown Co., Los Angeles, \$2093.
Plumbing—F. B. Jones, Pasadena, \$5984.

Plans Being Prepared
SCIENCE BLDG. Cost, \$65,000
SANTA ROSA, Sonoma Co., Cal. Ursuline College.
 Two-story frame and stucco science building.
 Owner—Ursuline College, Santa Rosa.
 Architect—H. A. Minton, Bank of America Bldg., Eddy and Powell Sts., San Francisco.
 Bids will be called for shortly.

Contracts Awarded.
SCHOOL Cost, \$83,450
ALHAMBRA, Los Angeles Co., Cal.
 Reinforced concrete and brick school (16 classrooms, library, clinic, etc.)
 Owner—Alhambra City School Dist.
 Architect—Richard C. Farrell, 11 S. Second St., Alhambra.
 Contractor—Steed Bros., 305 N. Garfield Ave., Alhambra.
Heating and Ventilating—F. B. Jones, Pasadena, \$6446.
Plumbing—F. B. Jones, Pasadena, \$5984.
Electric Work—Armstrong Electric Shop, Alhambra, \$8875.
Painting—Pohl Brown Co., Los Angeles, 2093.

Contracts Re-Awarded.
LABORATORY Cost, \$120,000
LA JOLLA, San Diego County, Calif.
 Scripps Institute of Oceanography.
 Two-story reinforced concrete laboratory (46x100-ft.)
 Owner—University of California, 405 Hugard Ave., Los Angeles.
 Architect—L. J. Gill, 32 Sefton Bldg., San Diego.
General Work—Jarboe Const. Co., San Diego, \$43,000.

Laboratory Furniture—E. H. Sheldon & Co., Box 228, Corte Madera, \$18,190.
Heating, Plumbing and Refrigeration awarded to Lohman Bros., 232 S Spring St., Los Angeles, at \$39,051.
 Plumbing and heating were previously awarded to Lohman Bros. at \$25,918, and refrigeration to the Baker Ice Machine Co. of Los Angeles, at \$12,290, which latter bid was reconsidered and the award rescinded.

Electric Work previously awarded to the Capitol Electric Co., 3333 Fifth St., San Diego, at \$7,000, due to revision in the plans, reduces the contract price to \$6,386.

Plans Being Prepared.
COLLEGE Cost, \$45,000
SANTA ROSA, Sonoma Co., Cal.
 Second unit of Junior College (to include six science laboratories and two classrooms; offices and rest rooms).
 Owner—Santa Rosa Junior College District.
 Architect—W. H. Weeks, 525 Market St., San Francisco.

MONTEREY, Monterey Co., Cal.—Until April 2, 7:30 P. M., bids will be received by A. G. Winston, Clerk, Monterey Grammar School District, to construct cement wall fronting grammar school property in Pacific St. Plans obtainable from H. D. Severance, chairman of the School Board, Colton Hall, Monterey.

Concrete Contract Awarded.
ADDITION Cost, \$—
SAN FRANCISCO, Fulton Street nr. Stanton Street.
 Three-story reinforced concrete addition to present building.
 Owner—University of San Francisco.
 Architect—Edward Eames, 353 Sacramento Street.
Contractor—Barrett & Hilp, 918 Harrison Street.
Painting—Readymix Concrete Co., 575 Berry Street.

BANKS, STORES & OFFICES

Contract Awarded.
REPAIRS Cost, \$35,000
OAKLAND, Alameda Co., Cal. 1720 Broadway.
 Repair fire damage to three-story and basement class C frame and brick loft building.
 Owner—"Money Back" Smith, premises.
 Architect—Not Given.
 Contractor—F. A. Muller, 805 Syndicate Bldg., Oakland.
Lumber—E. K. Wood Lbr. Co., Frederick and King Sts., Oakland.

Plans Being Prepared.
REMODELING Cost, \$—
BERKELEY, Alameda Co., Calif. Location withheld.
 Remodel two former bank buildings.
 Owner—Bank of America.
 Architect—H. A. Minton, Eddy and Powell Sts., San Francisco, and 525 Market St., San Francisco.

Sub-Contracts Awarded.
STORE Cost, \$5000
SAN FRANCISCO, SE 33rd Avenue and Cleary St.
 One-story frame and stucco store.
 Owner—M. E. and A. Cutler, 5 3 2 Geary Street.
 Architect—A. H. Larsen, 447 Sutter.

Contractor—G. P. W. Jensen, 320 Market Street.
Plumbing and Sheet Metal—Frank Davison, 65 Chesley St.
Grading—Plombo Bros., 124 Parker St. Mill Work—Chase Lumber Co., 547 W Santa Clara, San Jose.
Electric Work—Wedel Electric Co. 426 Kearny St.
Lumber—Hoping and Talbot Co., Russ Building.

Preparing Plans.
STORE Cost, \$—
SANTA BARBARA, Santa Barbara Co., Cal. Cabrillo Blvd. and Castillo St.
 Spanish type store.
 Owner—N. A. Liatis.
 Architect—Henry Howell, 19 E. Canon Perdido, Santa Barbara.

Plans Being Figured.
STORE Cost, \$8000
BURLINGAME, San Mateo Co., Cal. St. California 121.
 One-story reinforced concrete store.
 Owner—F. Peterson, Burlingame.
 Architect—E. L. Norberg, 580 Market St., San Francisco.

Electrical Contract Awarded.
BANK Cost, \$200,000
MONTEREY, Monterey Co., Cal. Location not selected.
 One-story and mezzanine steel frame and concrete bank with the roof.
 Owner—Monterey County Trust and Savings Bank.
 Architect—H. E. Winnier Co., 580 Market St., San Francisco.
 Mgr. of Const.—Mark Finlayson, care architect.
Electrical Work—Carroll & Searle, 765 Lighthouse Ave., Monterey.

Bids now being taken on cabinet and mill work.
 As previously reported, structural steel awarded to McClintic-Marshall Co., 2050 Bryant St., San Francisco; reinforcing steel to Gunn, Carle & Co., 444 Market St., San Francisco; excavation to M. J. Murphy, Carmel.

Contract Awarded.
ALTERATIONS Cost, \$1740
SAN FRANCISCO, State Building (Civic Center).
 Alterations to Attorney General's Offices.
 Owner—State of California.
 Architect—Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.
 Contractor—Braas & Kuhn, 1917 Bryant St., San Francisco.

Hardware Contract Awarded.
BANK BLDG. Cost, \$100,000
CHICO, Butte Co., Cal. Broadway and Second Sts. (65x51-ft.)
 One-story reinforced concrete bank (steel trusses, marble work, etc.)
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of America Bldg., Eddy and Powell Sts., San Francisco.
 Contractor—James L. McLaughlin Co., 251 Kearny St., San Francisco.
Hardware—Associated Hardware Co., 2860 San Pablo Ave., Oakland.
 Other awards reported Jan. 23, 1931.

Electrical Contract Awarded
REMODELING Cost, \$50,000
SAN FRANCISCO, First and Mission Streets.
 Remodel present building.
 Owner—C. C. Moore & Co., Sheldon Bldg., San Francisco.
 Architect—Fred H. Meyer, 525 Market St., San Francisco.
 Contractor—George Wagner, 181 South Park, San Francisco.
Electrical Work—Docker Electric Co., 538 Bryant St., San Francisco.
 As previously reported steel awarded to Western Iron Works, 141 Beale St., San Francisco.

Plans Being Prepared.
BANK Cost, \$—
ONTARIO, San Bernardino Co., Cal.
 A St. and Euclid Ave.
 One-story reinforced concrete bank
 (110x8 feet).
 Owner—First National Bank.
 Architect—Morgan, Wallis & Clements,
 Van Nuys Bldg., Los Angeles.

Contract Awarded.
ALTERATIONS Cost, \$4,000
OAKLAND, Alameda Co., Cal. NE
 12th and Washington Sts.
 Alterations to store.
 Owner—Foreman & Clark, 12th and
 Washington Sts., Oakland.
 Architect—Not Given.
 Contractor—C. D. DeVelhiss, 354 Ho-
 bart St., Oakland.

Plans To Be Prepared.
STORE Cost, \$20,000
BURLINGAME, San Mateo Co., Cal.
 Broadway.
 One-story reinforced concrete store.
 Owner—Martin Stelling and E. L.
 Gould, 155 Montgomery St., S. F.
 Architect—Bertz, Winter & Maury,
 210 Post St., San Francisco.

Sub-Figures Being Taken.
STORE Cost, \$10,000
PALO ALTO, Santa Clara Co., Cal.
 University Avenue.
 Two-story and basement frame and
 stucco store and apartments (2
 stores, 2 apts.)
 Owner—John Huss, 1902 University
 Ave., Palo Alto.
 Plans by A. R. Heald, 310 Parkinson
 St., Palo Alto.

Plans Being Prepared.
STORE Cost, Approx. \$150,000
BURLINGAME, San Mateo Co., Cal.
 Laguna Ave. and Broadway.
 One-story reinforced concrete store
 (3 stores).
 Owner—Martin Stelling and E. L.
 Gould, 155 Montgomery St., S. F.
 Architect—Bertz, Winter & Maury,
 210 Post St., San Francisco.
 Bids will be taken in about two
 weeks.

Sub-Contracts Awarded.
STORE Cost, \$50,000
BAKERSFIELD, Kern Co., Cal. I and
 N 19th Streets.
 One-story reinforced concrete store.
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of
 America Bldg., Eddy and Powell
 Sts., San Francisco.
 Lessee—J. J. Newberry Co.
 Contractor—G. A. Graham, 1927 A St.,
 Bakersfield.

Lumber—King Lumber Co., Bakers-
 field.
Milwork—Visalia Planing Mill Co.,
 Visalia.
**Reinforcing and Structural Steel, Steel
 Sash, Miscellaneous Iron, Toilet
 Partitions**—Kyle & Co., 346 G St.,
 Fresno.

Plastering—Alex Simpson, Bakersfield
Plumbing—Bakersfield Plumbing Co.,
 Bakersfield.
Electrical Work—Sam Fingerhut, Bakers-
 field.
Tile Floors—Chas. Zink, Bakersfield.
Roofing—Kern County Roofing Co.,
 Bakersfield.
Excavating—W. Hartman, Bakers-
 field.
Rock and Sand—Kern County Rock
 Co., Bakersfield.
Finish Hardware—Bakersfield Sand-
 stone Brick Co., Bakersfield.
Brickwork—Spring & Marchand Bldrs.
 Exchange, Bakersfield.

SANTA BARBARA, Cal.—Edgar
 Park and Dr. C. C. Park, Santa Bar-
 bara, are having a site on West Cab-
 rillo Blvd., near Castillo St., cleared
 preparatory to the erection of a fire-
 proof store building to cost about
 \$50,000.

Bids To Be Taken In About 1 Week.
BANK Cost, \$25,000
HOLLISTER, San Benito Co., Cal.
 One-story reinforced concrete bank.
 Owner—Bank of America.
 Architect—H. A. Minton, 525 Market
 St., San Francisco.

Contract Awarded.
ALTERATIONS Cost approx. \$10,000
SAN JOSE, Santa Clara Co., Cal. 80
 S Market Street.
 Alterations and additions to present
 telephone exchange building.
 Owner—Pacific Telephone & Telegraph
 Co., 140 New Montgomery St., San
 Francisco.
 Plans by Eng. Dept. of Owner.
 Contractor—R. O. Summers, 17 N 1st
 St., San Jose.
 The addition will consist of an ex-
 tension of the third floor to the two-
 story rear part of the building, ap-
 proximately 64 feet in depth, making
 the latter a full three-story structure.
 The construction will be of steel frame
 concrete and brick.

Plans Being Figured.
BANK Cost, \$75,000
SAN MATEO, San Mateo Co., Cal. B
 St. and Third Ave. (110 ft. front-
 age).
 One-story concrete bank.
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of
 America Bldg., Eddy and Powell
 Sts., San Francisco.
 Two or three weeks will be allowed
 for figuring the plans.

SAN FRANCISCO—National Dollar
 Stores, 923 Market St., has purchased
 the property on Market St., near Fifth
 which is improved with a four-story
 building, having a frontage of 25 feet
 on Market and extending back 165 feet
 to Stevenson St. Improvements will
 be made at a later date.

Segregated Figures Being Taken.
OFFICE BLDG Cost, \$8000
SAN JOSE, Santa Clara Co., Cal.
 Third Street.
 One-story brick office building.
 Owner—Gladding Bros. Mfg. Co., 4th
 and Keyes Sts., San Jose
 Architect—Wolfe & Higgins, 19 N-
 Second St., San Jose.
 About ten days will be allowed for
 figuring.

ROBBINS, Yuba Co., Cal.—Two-
 story general store building of Irvin
 Rowen was destroyed by fire March
 8 with a loss of \$18,000 including con-
 tents.

THEATRES

Plans Being Prepared.
THEATRE Cost, \$150,000
SAN JOSE, Santa Clara Co., Cal. NE
 First and San Salvador Sts.
 Class A theatre building.
 Owner—United Artists Corp., 1966 S
 Vermont St., Los Angeles.
 Architect—Walker & Eisen, 1031 South
 Broadway, Los Angeles.
 S. Chas. Lee, Los Angeles, was pre-
 viously reported as being the archi-
 tect which was in error.

HANFORD, Kings Co., Cal.—Joseph
 Miners, operating the T. & D. The-
 atre in W Seventh St., will expend
 \$50,000 in remodeling the structure in-
 cluding installation of sound equip-
 ment and screen to relieve eye strain.
 Plans Being Prepared.
ALTERATIONS Cost, \$50,000
WATSONVILLE, Santa Cruz Co., Cal.
 Remond Theatre.
 Owner—Fox-California Theatre
 (Douglas Graham, Mgr.), Watson-
 ville.
 Architect—Private Plans.
 Work will involve complete remodel-

ing and redecorating in addition to
 a Neon marquee, Spanish type orga-
 lio, carpets, drapes and new seating.

**MISCELLANEOUS
 CONSTRUCTION**

SACRAMENTO, Calif.—City vote
 bonds of \$480,000 to finance construc-
 tion of a new sedimentation basin in
 connection with the municipal water
 system. Fred J. Klaus is city engi-
 neer.

Contract Awarded.
MORTUARY Cont. Price, \$12,21
MOUNTAIN VIEW, Santa Clara Co.
 Cal. NE Yosemite and Castle Sts
 Two-story and basement frame and
 stucco mortuary (50x50 ft.)
 Owner—George Beardsley.
 Plans by E. Reichel, 303 University
 Ave., Palo Alto.
 Contractor—The Minton Co., 24
 Hamilton Ave., Palo Alto.

LOS ANGELES, Cal.—No bids were
 received by the county supervisors for
 furnishing 10,000 tons of rock rip-rap
 for the flood control department levees.

SANTA ANA, Orange Co., Cal.—
 Santa Ana city council has accepted
 an offer of historical museum for
 city of Santa Ana under provisions of
 a trust fund amounting to more than
 \$100,000 left by the late Mrs. Ada E.
 Bowers. In addition to the \$100,000
 fund, Mrs. Bowers left a lot at Main
 and 20th Sts., Santa Ana, as a site for
 the museum and created another trust
 fund of \$2500 for the erection of a
 fountain. Building will be built or
 site named, details of construction
 probably to be handled by the city
 council subject to the approval of the
 First National Bank of Santa Ana,
 trustee.

SAN JOSE, Santa Clara Co., Cal.—
 Until March 9, 8 P. M., bids will be
 received by C. B. Goodwin, city man-
 ager, for washing and segregating ap-
 proximately 2000 yards of sand and
 4000 yards of gravel at Cherry Flat
 4 miles east of Alum Rock. Certified
 check 10% required with bid. Specifi-
 cations and further information ob-
 tainable from Wm. Pepp, city engi-
 neer.

LOS ANGELES, Cal.—R. E. Hoyt
 superintendent of construction, Los
 Angeles Playground and Recreation
 Department, has completed prelimi-
 nary plans for two swimming pools
 and a grandstand to be erected at Ex-
 position Park for the Olympic Games
 to be held in 1932. The swimming
 pools will be 18 meters wide and 50
 meters long, concrete construction
 with tile lines, etc. The grandstand
 will accommodate 5000 people and will
 contain two floors for dressing rooms,
 boiler room, filtration system, game
 rooms and playrooms. It will be
 reinforced concrete construction.
 Temporary bleachers will be erected
 facing the second pool just before
 the games. The city will appropriate
 from \$75,000 to \$85,000 and the Olympic
 Games committee \$35,000 for the
 work.

Preparing Preliminary Plans.
MORTUARY Cost, \$55,000
MODESTO, Stanislaus Co., Calif.
 Two-story brick and concrete mortu-
 ary building.
 Owner—C. Shannon, Modesto.
 Architect—Russell Guerne De Lappe,
 1710 Franklin St., Oakland.

SAN JOSE, Santa Clara Co., Cal.—
 Bright Gravel Co., Senter Road, San
 Jose, awarded contract by city council
 for segregation and washing of gravel
 and to place in stock piles at

Engineering News Section

BRIDGES

SAN BERNARDINO COUNTY, Cal.—Following bids received March 11 by State Highway Commission to construct a reinforced concrete girder bridge over the tracks of the Atchison, Topeka and Santa Fe Railway, consisting of two miles east of Essex, consisting of one 48-ft. and four 34-ft. spans on concrete piers:

H. W. Rohl Co., 727 W 7th St., Los Angeles \$20,885
Byert & Dunne, Los Angeles..... 24,798
R. E. McKee, Los Angeles..... 25,971
Johnson Const. Co., Los Angeles 28,892
Bids held under advisement.

PLACER COUNTY, Cal.—Following bids received March 11 by State Highway Commission to construct under-grade crossing under the tracks of the Southern Pacific R. R. at New England Mills, consisting of two concrete abutments with wing walls and grade-in and surfacing approximately 1,000 lin. ft. of roadway with bituminous treated crushed gravel or stone surfacing:

W. H. Hauser, 3129 E 7th St., Oakland \$32,521
C. W. Wood, Stockton..... 36,115
P. F. Bender, North Sacto..... 36,264
Lindgren & Swinerton, Inc., Sacramento..... 37,104
Frederickson & Watson and Frederickson Bros. Oakland 38,765
Bodenhamer Const. Co. Oakland 39,056
C. Emil Force, Piedmont..... 40,644
J. W. Hoops, Sacramento..... 44,130
Bids held under advisement.

SAN FRANCISCO—Until April 29, 2:30 P. M. (date extended from Mar. 25), bids will be received by S. J. Hester, secretary, Board of Public Works, to construct bascule bridge over the Islais Creek channel in 3rd Street. Estimated cost, \$400,000. The structure will be a single leaf bascule bridge, 140 ft. span, 80 ft. overall width; 103 ft. between fenders with 6 ft. sidewalks. Provision will be made for two street railway tracks and the Belt Line Railroad in addition to vehicular traffic.

Bids are wanted for:

(1) Furnishing and erecting a bascule bridge superstructure and approaches, including the dismantling of the existing bridge anchors and appurtenances, and the construction of all necessary foundations, piers, abutments and appurtenances, all in conformity with the plans and specifications.

(2) Furnishing and erecting a bascule bridge superstructure, including counterweight, machinery and appurtenances, all in conformity with the plans and specifications.

Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from the Bureau of Engineering, 3rd floor, City Hall.

EUREKA, Humboldt Co., Cal.—Bids will be asked at once, by county superintendent, Fred M. Kacy, county clerk, to construct bridge over the Klamath River at Martin's Ferry, involving the placing of a steel span between two towers now in place. Span will be 41-ft. long and 180-ft. above the river, near Martin's Ferry. Bids will be opened about April 14. Plans are obtainable from County Surveyor Frank Kelly.

SAN MATEO-SANTA CLARA COS. Cal.—Barrett & Hill, 918 Harrison St., San Francisco, at \$17,218 awarded contract by State Highway Commission to construct a reinforced concrete girder bridge across San Francisco Creek at Palo Alto, consisting of three 27-ft. spans on concrete pile piers.

SANTA BARBARA COUNTY, Cal.—Paul M. White, Santa Monica, at \$35,287 awarded contract by State Highway Commission to construct reinforced concrete arch bridge across Gaviota Creek, consisting of one 190-ft. span.

LOS ANGELES, Cal.—The Los Angeles Board of Public Works has ordered amended plans and specifications for the \$1,000,000 Sixth St. Viaduct to permit separate contract, if so desired, for fabrication of steel, erection of steel and construction of other portions of the bridge, making three contracts. Merrill Butler is chief bridge engineer for the city.

MERCED, Merced Co., Cal.—Until April 14, bids will be received by county supervisors to construct timber bridge over Dry Creek on the Amsterdam-Ryer road. Plans obtainable from County Surveyor W. E. Bedesen.

SANTA BARBARA, Cal.—Cook and Clark, Santa Barbara, at \$3,305 awarded contract by county supervisors to construct bridge over Alamo Continado Creek.

MERCED, Merced Co., Cal.—Until April 14, bids will be received by county supervisors to reconstruct floor of bridge over the Merced River on the Cox Ferry road. Plans obtainable from County Surveyor W. E. Bedesen.

MERCED, Merced Co., Cal.—Until April 14, bids will be received by the county supervisors to construct concrete bridge over irrigation canal in Palm Ave., between Shaffer road and Winton road. Plans obtainable from County Surveyor W. E. Bedesen.

NAPA, Napa Co., Cal.—County supervisors have passed resolution appropriating \$25,000 to aid the city of Napa to construct the new Third St. bridge over the Napa River, plans for which are being completed by H. A. Harold, city engineer. The structure will be of concrete construction and will cost approximately \$77,000.

SANTA CLARA COUNTY, Cal.—Until April 1, 2 P. M., bids will be received by State Highway Commission to construct a reinforced concrete girder bridge across Carnadero Creek, about 1.7 miles south of Gilroy, consisting of four 35 ft. spans on concrete pile piers and concrete abutments, and approximately 0.25 mile of roadway approaches to be graded and paved with Portland cement concrete.

See call for bids under official proposal section in this issue.

OAKLAND, Calif.—County Surveyor George A. Evey, preparing plans for Ferry Street Bridge in San Leandro. Will be either steel or reinforced concrete construction. Estimated cost, \$15,000.

MODESTO, Stanislaus Co., Calif.—Until March 23, 11 A. M., bids will be

received by C. C. Eastin, county clerk, to construct bridge over the Stanislaus River, north of Oakdale. Will be reinforced concrete construction 390 feet long, 24 feet wide, with a 20 foot roadway. Est. cost, \$92,000. Certified check 10% required with bid. Plans on file in office of clerk and obtainable from George Macomber, county surveyor.

PLACER COUNTY, Cal.—Until April 1, 2 P. M., bids will be received by State Highway Commission to construct bridge across Auburn Ravine about one-half mile west of Auburn, consisting of six 19 ft. timber spans and one 48 ft. steel beam span on timber bents with concrete footings.

MERCED COUNTY, Cal.—Until April 1, 2 P. M., bids will be received by State Highway Commission to construct a steel traker overhead crossing over the tracks of the Atchison, Topeka & Santa Fe Railway about 2½ miles east of Merced, consisting of thirty-one 40-ft. spans and seven 20-ft. spans with reinforced concrete deck on steel pile bents and steel frame bents on concrete footings with timber pile foundations and approaches to be graded and paved with Portland cement concrete.

DREDGING, HARBOR WORKS & EXCAVATIONS

PEARL HARBOR, T. H.—Until Apr. 8, under Specifications No. 6128, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for dredging 41,000 cu. yds. of material at Naval Operating Base, Pearl Harbor. Specifications obtainable from above on deposit of \$10, checks for same to be made payable to Chief of the Bureau of Yards and Docks.

EUREKA, Humboldt County, Cal.—County supervisors have appropriated \$1,575 to ward's construction of a breakwater and dredging the old channel of Little River, for the purpose of diverting the river from its present channel back to the old bed. The work is to be undertaken by the Hammond and Little River Redwood Co., the cost to be borne equally by the lumber firms, the county and the state government.

IRRIGATION PROJECTS

CALIFORNIA.—Following applications filed during the month of February, 1931, with the State Department of Public Works, Division of Water Resources, for permits to appropriate water:

Application 6883 (Mono County) O. P. Dyar, 325 South Los Robles, Pasadena, for 150 gals. per day from unnamed stream tributary to Lake George and Owens river, for domestic purposes. Est. cost, \$50.

App. 6884 (Contra Costa Co.) Associated Oil Co., care Humphrey, Searle, Doyle and McMillan, Attys., Standard Oil Bldg., San Francisco, for 20,000 gals. per minute from Hastings Slough tributary to Suisun Bay, for industrial purposes. Est. cost, \$30,000.

App. 6885 (Siskiyou Co.) W. A. Sargent, Dorris, 2.0 cu. ft. per sec. from Cottonwood Creek tributary to Lower

Klamath Lake, for irrigation purposes on 160 acres. Est. cost \$50.

App. 6886 (Elsikyou Co.) W. S. Hart, L. I. Herrington, John Tiedemann and C. D. Jones, care W. S. Hart, 520 K St., Sacramento, 800 gals. per day from unnamed spring tributary to Kelsey, thence Scott, thence Klamath River, for domestic purposes.

App. 6887 (Butte Co.) S. E. Lee, Biggs, 3.0 cu. ft. per sec. from Lateral "A", Reclamation District 833 tributary to Butte Creek and Sacramento River, for irrigation purposes on 160 acres.

App. 6888 (Humboldt Co.) C. H. Barkdull, 3646 25th Ave. South, Seattle, Wash., for 25 cu. ft. per sec. from 6 or 7 small streams, tributary to South Fork of the Trinity River, for mining and domestic purposes.

App. 6889 (Trinity Co.) D. K. Can and Joseph O'Donnell, care D. K. Can, Burnt Ranch, 1 cu. ft. per sec. from Gray Creek tributary to Trinity River, for mining purposes. Est. cost, \$50.

App. 6890 (Lassen Co.) Western Pacific Railroad Co., Mills Bldg., San Francisco, for 0.4 cu. ft. per sec. from Horse Creek, for industrial and domestic purposes. Est. cost, \$16,700.

App. 6891 (El Dorado Co.) L. L. Hartline, Camino, 0.044 cu. ft. per sec. from Eush Creek, for irrigation and domestic purposes on 5 acres. Est. cost, \$400.

App. 6892 (Sutter Co.) A. C. H. Schmidt, care Lawrence Schilling, attorney, Yuba City, for 1.1 cu. ft. per sec. from Feather River tributary to Sacramento River, for irrigation purposes on \$1.55 acres. Est. cost \$1500.

App. 6893 (San Diego Co.) Harry E. Causey, Aguanaga, 5 gals. per minute from unnamed spring tributary to Tecumeca Creek, thence Santa Margarita River, for irrigation and domestic purposes on 2 acres. Est. cost \$300.

App. 6894 (Stanislaus Co.) E. E. Henry, Rt. 2, Box 947, Modesto, for 0.7 cu. ft. per sec. from Tuolumne River tributary to San Joaquin River, for irrigation and domestic purposes on 58 acres. Est. cost, \$1000.

App. 6895 (Tuolumne Co.) W. C. Lehane, P. O. Box 94, Modesto, 280 cu. ft. per sec. from Stanislaus River, tributary to San Joaquin River, for irrigation purposes on 100,000 acres.

App. 6896 (Inyo Co.) Leo Kikut, Olancha, 2 cu. ft. per sec. from small spring to be developed, tributary to Owens Lake watershed, for irrigation and domestic purposes on 80 acres.

App. 6897 (San Bernardino Co.) Mrs. Effel Rudy, Fenner, for 0.2 cu. ft. per sec. from Fenner Spring, for domestic purposes.

App. 6898 (El Dorado Co.) United States El Dorado National Forest, Placerville, for 800 gals. per day from unnamed stream, tributary to Lake Tahoe, for domestic and fire protection purposes. Est. cost, \$100.

App. 6899 (El Dorado Co.) United States El Dorado National Forest, Placerville, for 800 gals. per day from Doane Springs, tributary to Lower Echo Lake, for domestic purposes. Est. cost \$150.

App. 6900 (El Dorado Co.) United States El Dorado National Forest, Placerville, for 3200 gals. per day from Bryant Creek, tributary to South Fork of American River, for domestic and fire protection purposes. Est. cost, \$500.

App. 6901 (Kern Co.) S. D. Gunderson, Brown, Calif., 3/4 cu. ft. per sec. from Grapevine Canyon and 7 springs or seepages, tributary to Grapevine Canyon, for irrigation, domestic and stock watering purposes.

CALIFORNIA.—Following permits were granted during the month of February, 1931, by the State Department of Public Works, Division of Water Resources, to appropriate water:

Permit 3653, Application 6797 (El-

dorado County) Issued to G. E. White, Woodland, for 200 gallons per day from Forni Creek, for domestic purposes. Est. cost, \$50.

Per. 3654, App. 6670 (Sutter Co.) H. S. Fasig and W. H. Saylor, Knights Landing, for 3.46 cu. ft. per second from Sacramento River, for irrigation on 27.83 acres. Est. cost \$4,000.

Per. 3655, App. 6508 (Inyo Co.) W. B. Gray, Beatty, Nev., for 5 cu. ft. per second from Jall Spring, Birch Spring and Tuber Spring, for mining and domestic purposes.

Per. 3656, App. 6800 (Plumas Co.) S. E. Colburn and A. E. Banks, Crescent Mills, for 1 cu. ft. per sec. from unnamed stream, for power and domestic purposes. Est. cost, \$2000.

Per. 3657, App. 6845 (San Diego Co.) Division of Highways, Department of Public Works, Sacramento, for 0.012 cu. ft. per sec. from La Posta Spring for recreational purposes.

Per. 3658, App. 6847 (Colusa Co.) Mary E. Porter Gleason, Grimes, for 1.0 cu. ft. per sec. from Sacramento river, for irrigation on 153.55 acres. Est. cost \$2515.

Per. 3659, App. 6742 (Mono Co.) Sarita Mining & Power Co., Bridgeport, for 1 cu. ft. per sec. from Masonic Creek and 15 springs, for mining and domestic purposes. Est. cost \$750.

Per. 3660, App. 6759 (Mono Co.) Alley Age Products Co., Ltd., Whittier, for 3 cu. ft. per sec. from Laurel Lakes for power purposes. Est. cost \$1500.

Per. 3661, App. 6444 (Del Norte Co.) C. D. Dunselton, Holland, Ore., for 12 cu. ft. per sec. from West Fork Althouse Creek, for mining purposes. Est. cost \$1000.

STREET LIGHTING SYSTEMS

EUREKA, Humboldt Co., Cal.—Eureka Electric Co., 205 6th St., Eureka, at \$14,321 awarded contract by city council to install electroliers with underground system in Fourth St. from Broadway to J Sts., involving cast iron standards. Previous bids were rejected, these being: City Imp. Co., San Francisco, \$14,759; Eureka Electric Co., \$14,550; Globe Electric Co., San Francisco, \$15,000. Complete list of recent bids follows:

Eureka Electric Co.	\$14,321
City Imp. Co., Oakland	14,563
Globe Elec. Co., San Francisco	14,554

SAN LEANDRO, Alameda Co., Cal.—City council plans installation of electrolier system in Dutton Avenue between East 14th Street and Kenilworth Avenue, involving 29 standards. Estimated cost, \$7,000. W. A. Richmond, city engineer.

LIVERMORE, Alameda Co., Cal.—City trustees declare intention (940) to install electroliers together with underground system in portions of West First St., East First St., and South Livermore Ave., involving 45 Westinghouse Hollowspan Granite electroliers, Belmont Design 15, Style No. 338225 with type "U" fitter, together with transformers, light units, etc. 1911 Act. Hearing March 18. Elmer G. Still, city clerk.

SAN FRANCISCO.—Until March 25, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to install ornamental street lighting system in Bernal Ave., involving:

- (1) 39 ornamental iron standards, erect, paint and assemble.
- (2) 39 luminaries and lamps, furnish and install.
- (3) 39 concrete foundations with con-duit beds.
- (4) 11,800 5,000-volt single conductor R and L C wire.
- (5) 2 series transformers, furnished and installed.

Bond of \$1,800 required of the successful bidder. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SANTA CRUZ, Santa Cruz Co., Cal.—City council contemplates proceeding to install electrolier system in Vine St., between Locust and Church Sts. Roy Fowler, city engineer.

MACHINERY AND EQUIPMENT

SACRAMENTO, Cal.—Link-Belt Co., 400 Paul Ave., San Francisco, at \$1,352 awarded contract by city council to furnish elevating and screening equipment for the Municipal Filtration Plant. Complete list of bids published in issue of February 21.

SAN FRANCISCO.—Until March 30, 3 P. M., under Proposal No. 704, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish one twin-screw patrol boat for San Francisco Police Department. Specifications obtainable from above office on deposit of \$50, returnable.

SAN FRANCISCO.—Until March 19, 2 P. M., bids will be received by U. S. Forest Service, Ferry Bldg., to furnish and deliver 53 trucks ranging in capacity from one-half to ten tons. Specifications obtainable from above office.

OCEANSIDE, San Diego Co., Cal.—Until 7:30 P. M., March 25, bids will be received by the Oceanside city council for furnishing the city one 1 1/2-ton motor truck with enclosed cab and express body. Certified check, 10%. John H. Landes, city clerk.

GRIDLEY, Butte Co., Calif.—Fairbanks-Morse Co., Spear and Harrison Sts., San Francisco, at \$17,290 submitted only bid to city to furnish and install one Diesel engine generating unit with auxiliary pumps, motors, equipment and materials.

The above equipment is for the purpose of replacing the present inadequate steam plant standby service.

Bids held under advisement until March 16.

HAWTHORNE, Nev.—Until March 24, 10 A. M., bids will be received by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., to furnish motor ambulance for Naval Ammunition Depot at Hawthorne. Specifications obtainable from Navy Purchasing Office, 100 Harrison St., San Francisco.

OAKLAND, Cal.—Until March 30, 4:30 P. M., bids will be received by City Port Commission, 424 Oakland Ferry Bldg., to furnish and install 2 10-ton barges, hold for use at the Inland Waterways Terminal; estimated cost \$12,000. Specifications obtainable from above office.

RAILROADS

LOS ANGELES, Cal.—Until March 25, 10 A. M., bids will be received by City Harbor Department, to furnish girder rail, frogs, switches and miscellaneous rail materials for terminal at Bosh 1st 14 to 16. Certified check for 10%. Specifications obtainable from above.

FIRE EQUIPMENT

GILROY, Santa Clara Co., Cal.—Rural Fire Department, meeting in Gilroy firehouse, votes to purchase 200 ft. of new one-inch hose; estimated cost \$150.

LOS ANGELES, Cal.—Until 11:00 A. M., March 18, bids will be received by the Los Angeles city purchasing agent, Thomas Oughton, for furnishing cotton rubber lined fire hose under Specifications No. 2390. The items are:

- (1) 30,000 feet 2½-inch hose.
- (2) 200,000 feet 1½-inch hose.

RESERVOIRS AND DAMS

BOULDER CITY, Nev.—Six Companies, Inc., 1944th Bldg., San Francisco, has awarded contract by U. S. Bureau of Reclamation to construct the Hoover Dam, power plant and appurtenant works. The Six Companies, Inc., 526 Phelan Bldg., San Francisco, is organized from the Utah Const. Co., Phelan Bldg., San Francisco and Ogden, Utah; Henry J. Kaiser, Latham Square Bldg., Oakland and W. A. Bechtel Co., 155 Sansome St., San Francisco; Macdonald & Kahn Co., Ltd., Financial Center Bldg., San Francisco; Morrison-Knudsen Co., Continental National Bank Bldg., Boise, Idaho; J. F. Shea Co., Henry Bldg., Portland, Oregon and Pacific Bridge Co., foot of East Salmon St., Portland, Oregon. The officers of Six Companies, Inc., are: W. H. Wattis, president; W. A. Bechtel, first vice-president; E. O. Wattis, second vice-president; Felix Kahn, treasurer; Chas. A. Shea, secretary. Complete list of the unit bids received on this project published in issue of Mar. 10th.

HAWTHORNE, Nevada.—Following is a partial list of prospective bidders to construct Cat Creek Dam at Hawthorne, in connection with the Naval Ammunition Plant, bids for which will be opened by the Bureau of Yards and Docks, Navy Department, Washington, D. C., on March 25, under Specification No. 6165:

F. L. Burr, 320 Market Street, San Francisco.
Macco Const. Co., Los Angeles.
J. G. Donovan, 4031 Goodwin, Los Angeles.

C. Dudley DeVelbes, 360 Pine St., San Francisco.

Mitty Bros., Detwiler Bldg., Los Angeles.

MacDonald & Kahn, Financial Center Bldg., San Francisco.

Utah Const. Co., Phelan Bldg., San Francisco.

Harrison Wright, Charlotte, North Carolina.

Healy-Tibbitts Const. Co., 64 Pine St., San Francisco.

Seims-Helmer, Inc., 206 Sansome St. San Francisco.

A. D. Wilder, San Francisco.

Arundel Corp., Baltimore, Md.

W. S. Lee Eng. Corp., Power Bldg., Charlotte, North Carolina.

Hallbauer-Le Bahn, Inc., 844 Rush St., Chicago.

D. A. Foley Const. Co., 716 Grant Bldg., Los Angeles.

The work consists of constructing a constant angle type concrete dam, approximately 120 ft. in height requiring rock excavation, concrete work, drilling grout holes, pressure grouting, pipe and fittings for grouting and drainage systems, and intake pipe and screens. Plans obtainable from District Public Works Officer, Room 513, 100 Harrison St., San Francisco, on deposit of a check or postal money order for \$10, payable to the Chief of the Bureau of Yards and Docks.

PIPE LINES, WELLS, ETC.

SAN MATEO COUNTY, Calif.—Pacific Gas and Electric Co., 245 Market St., San Francisco, will spend \$156,300 in installing 1500 new gas service connections in various sections of the city.

SAN JOSE, Santa Clara Co., Cal.—Pacific Gas and Electric Co., 245 Mar-

ket St., San Francisco, will expend \$300,000 in installing 1852 new gas services in various sections of the city.

KENNEWICK, Wash.—Until 2 P. M., March 30, bids will be received by the U. S. Bureau of Reclamation, Denver, Colo., for constructing a 34-in diameter continuous wood stave pipe for low lift discharge line, Kennewick Highlands pumping plant, Kennewick Division, Yakima project, Washington. The work is located about 3½ miles west of Kennewick, Wash., which town is on the Northern Pacific Ry. Specifications No. 512-D. The work involves the furnishing and erecting of about 6650 lin. ft. of 34-in. continuous wood stave pipe complete. Excavation of trench and piers for supporting the pipe will be furnished by the government. Proposal guaranty, 10%. R. F. Walter, Denver, chief engineer.

CALIFORNIA.—See "Power Plants" this issue. Construction contemplated by Pacific Gas and Electric Co. in connection with power plants and gas main extensions in Shasta Division, Coast Valley Division, Humboldt Division, and San Joaquin Division.

LOS ANGELES, Cal.—Bids for furnishing seamless or lap welded pipe under specifications No. 2391 were opened by the city purchasing agent, Thomas Oughton, March 8. The items were:

- (1) approximately 500 ft. 12-in. pipe;
- (2) approximately 500 ft. 16-in. pipe;
- (3) approximately 500 ft. 18-in. pipe;
- (4) approximately 500 ft. 20-in. pipe;
- (5) approximately 500 ft. 24-in. pipe.

The bids were:
Fitzpatrick & Lock Co.—(1) \$1,567.9; (2) \$2,117.6; (3) \$2,953.3; (4) \$2,841.4; (5) \$4,551.8; terms 2% 30 days.

Champion & Barber Inc.—(1) \$1,747.2; (2) \$2,723.2; (3) \$3,074.4; (4) \$3,416.0; (5) \$5,000.0; terms 2% 30 days.

Alternate bid for combined award:
(1) \$1,683.0; (2) \$2,142.0; (3) \$2,409.8; (4) \$2,677.5; (5) \$3,066.

Ducommun Corp.—(1) \$142.80 per 100 ft.; (2) \$169.64 per 100 ft., items 3, 4 and 5 no bid; terms, 2% 30 days.

Republic Sales Corp.—(1) \$1,492.2; (2) \$2,170.4; (3) \$2,621.4; (4) \$2,963.0; (5) no bid. Cash discount \$74.82, 30 days after delivery.

Midway Pipe & Supply Co.—(1) \$1,567.9; (2) \$2,117.6; (3) \$2,524.9; (4) \$2,841.4; (5) \$4,551.8; terms 2% 30 days.

Grinnell Company—(1) \$1,425; (2) \$2,082; (3) \$2,524.9; (4) \$2,844.4; (5) \$3,784.4; terms 2% 30 days.

California Hardware Co.—(1) \$1,492.2; (2) \$2,170.4; (3) \$2,631.4; (4) \$2,826; (5) no bid; terms, 2% 30 days.

Santa Fe Pipe & Supply Co.—(1) \$1,49; (2) \$2,36; (3) \$2,52; (4) \$2,77; (5) \$3,50; terms 2% 30 days.

Crane Company—(1) \$1,428.0; (2) \$2,082; (3) \$2,524.9; (4) \$2,844.4; (5) \$3,784.4; terms 2% 30 days.

SEWERS AND SEWAGE DISPOSAL PLANTS

STOCKTON, San Joaquin Co., Cal.—Until March 23, 11 A. M., bids will be received by Eugene D. Graham, county clerk, to remove existing sewer and construct new sewer with connections along line of an existing sewer at the San Joaquin County Fair Grounds at Wilson Way and Charter Way in Stockton. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from County Surveyor Julius Manthey.

OAKLAND, Cal.—City council declares intention to sewer portions of Hampton Road SW of Estates Drive, a certain path and sewer reserve in "Montclair Acres" Tract, involving:
(1) 213 lin. ft. 8-in. pipe sewer;
(2) 10 manholes;

- (3) 3 8-in. lampholes;
- (4) 7 12-in. lampholes;
- (5) 43 Y branches.

1911 Act. Hearing March 26. F. C. Merritt, city clerk. Walter H. Frickstad, city engineer.

OAKLAND, Cal.—City council contemplates bond issue of \$2,000,000 to relieve unemployed. Of this amount \$1,200,000 would be provided for sewer construction. Walter N. Frickstad is city engineer.

LOS ANGELES, Cal.—The Los Angeles city council has ordered the \$5,000,000 sewer bond issue placed on the May primary ballot.

PHOENIX, Ariz.—Plans for the proposed sewer improvements under the \$317,000 sewer bond issue are being checked by C. C. Kennedy, consulting engineer, Call Bldg., San Francisco. The work will include a new disposal plant, laying of new sewer mains, etc.

SAN FRANCISCO—Until March 25, 2:30 P. M., bids will be received by S. J. Heister, Secretary, Board of Public Works, to construct Section B of the Fifteenth Street Sewer, involving:

- (1) 622 lin. ft. 7-ft. circular reinforced concrete sewer;
- (2) 2756 lin. ft. 5-ft. 6-in. circular reinforced concrete sewer;
- (3) 631 lin. ft. 4-ft. 6-in. circular reinforced concrete sewer;
- (4) 145 lin. ft. 3-ft. x 4 ft. 6-in. sewer;
- (5) 68 lin. ft. 18-in. V.C.P. sewer;
- (6) 15 lin. ft. 15-in. V.C.P. sewer;
- (7) 1 taper connection from 5-ft. 6-in. sewer to 7-ft. sewer;
- (8) 1 taper connection from 5-ft. 6-in. sewer to 6-ft. sewer;
- (9) 1 taper connection from 4-ft. 6-in. sewer to 5-ft. 6-in. sewer;
- (10) 1 taper connection from 3-ft. x 4 ft. 6-in. to 3-ft.x5-ft. sewer;
- (11) 1 diversion structure of reinforced concrete;
- (12) 21 manholes on reinforced concrete sewer;
- (13) 1 drop manhole on reinforced concrete sewer;
- (14) 1 manhole on V.C.P. sewer;
- (15) 230 lin. ft. 6-in. V.C.P. underdrain covered with concrete or imbedded in broken rock;
- (16) 1060 lin. ft. 8-in. V.C.P. underdrain covered with concrete or imbedded in broken rock;
- (17) 530 lin. ft. 10-in. V.C.P. underdrain covered with concrete or imbedded in broken rock;
- (18) 270 lin. ft. 12-in. V.C.P. underdrain covered with concrete or imbedded in broken rock.

Estimated cost, \$125,000. The sewer will extend from Fifteenth and Howard streets along 15th to Dolores and along Dolores to 14th street and along 14th St. to Market and Church Sts. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from the Bureau of Engineering, 3rd Floor, City Hall, on deposit of \$10, returnable.

REDWOOD CITY, San Mateo Co., Cal.—Board of Supervisors has withdrawn the call for bids scheduled for opening March 16th to construct sewer system in Lomita Park, San Bruno, Capuchino and a portion of South San Francisco. The action was taken due to opposition of property owners who protested the Mattoon Act proceedings under which the project was to be financed. Details of this job were reported in issue of February 21.

MISCELLANEOUS CONSTRUCTION

SANTA ANA, Orange Co., Cal.—Oberg Bros., 3470 Hollenbeck Ave., Los Angeles, submitted low bid at \$167,000 to city council to construct grade separation structure under tracks of the Southern Pacific and Santa Fe railways at Fourth St.

ALAMEDA, Alameda Co., Cal.—City council has called a public meeting for March 20 to map action in support of its demand for a second traffic tube under the estuary in the event that the Goat Island bay bridge site is approved by the U. S. War Department.

WATER WORKS

FRESNO, Fresno Co., Cal.—Until March 20, 2 P. M., bids will be received by D. M. Barnwell, county clerk, to furnish and install pumps, pressure tanks and miscellaneous items for Fresno County Water Works District No. 1. Certified check 10% payable to "Fresno County for use and benefit of Fresno County Water Works District No. 1," required with bid. Specifications obtainable from Perry F. Brown, engineer, 512 Griffith-McKenzie Bldg., Fresno.

BURBANK, Los Angeles Co., Cal.—Until March 17, 7 P. M., bids will be received by city manager to furnish one horizontal high pressure centrifugal pump complete and one direct connected flexible type coupling, 440-volt, 50-cycle, 3-phase motor with starting compensator and overload and no voltage release relays. Bidders shall state (1) the cost of pump complete; (2) the cost of motor complete with starting compensator and relays. Specifications on file in office of city clerk.

OCEANSIDE, San Diego Co., Cal.—Until 7:30 P. M., March 25, bids will be received by the Oceanside city council for one 16-in. recording, mainline, or current water metre installed in a 16-in. riveted steel pump discharge pipe line. Certified check, 10%. John H. Landes, city clerk.

SACRAMENTO, Calif.—City votes bonds of \$480,000 to finance construction of a new sedimentation basin in connection with the municipal water system. Fred J. Klaus is city engineer.

DENVER, Colo.—Byron-Jackson Co., Berkeley, at \$19,170, awarded contract by the U. S. Bureau of Reclamation for pumps under Spec. 501-D.

GRIDLEY, Butte Co., Calif.—Until April 6, 8 P. M., bids will be received by J. L. Lewis, city clerk, to furnish and deliver L.o.b. Gridley, cast iron pipe as follows:

- (1) 1500 ft. 6-in. class B cast iron bell and spigot pipe;
 - (2) 2000 ft. 4-in. do.;
 - (3) 8 4-in. double hub fittings side outward tap 2-inch standard thread;
 - (4) 2 0x1 reducers, bell and spigot;
 - (5) 2 4x1 all ball tees;
 - (6) 12 4-in. plugs tap 2-in. standard thread;
 - (7) 6 6-in. do.;
- Certified check 10% payable to city required with bid.

LONG BEACH, Cal.—C. C. Lewis, city manager, recommended to the city council that the U. S. Pipe & Foundry Co., Los Angeles, be awarded a contract at \$75,492 for furnishing cast iron pipe in 12-ft. lengths, as follows: (1) 79,200 ft. 2-in. cast iron pipe; (2) 10,800 ft. 20-in. cast iron pipe.

SANTA MARIA, Santa Barbara Co., Cal.—Wm. MacDonald, Santa Maria, representing the Byron-Jackson Co., awarded contract by city council at \$1304.55 for one complete horizontal electric driven direct connected centrifugal pump unit. Other bids were: Simonds Machinery Co., \$1308; Smith Booth Usser Co., \$1332; Krelle Plumbing & Electric Co., \$1335; United Iron Works, \$1440; Roemer & Roemer (DeLaval) \$1495; Kimball-Krogch Co., \$1631.

VALLEJO, Solano Co., Cal.—U. S. Pipe & Foundry Co., Monarch Bldg., San Francisco, at \$17,333.57 submitted lowest bid to city clerk to furnish and deliver 4,416 ft. of 24-in. bell and spigot cast iron water pipe, together with fittings and double spigot pipe. Following is a complete list of the bids: U. S. Pipe & Foundry Co., San Francisco \$17,333 American Cast Iron Pipe Co., San Francisco 17,491 C. G. Claussen Co., S. F. 17,970 National Cast Iron Pipe Co., San Francisco 19,468 Bids held under advisement.

LOS ANGELES, Cal.—Dr. Carl J. Wilson, bacteriologist for the Bureau of Water and Power, is designing a filtration plant which the department will erect at the Wilmington pumping plant at Lecouvreur and J Sts. It will have a capacity load of 7,500,000 gallons daily. The estimated cost is \$160,000.

OAKLAND, Cal.—Until March 18, 5:30 P. M., bids will be received by J. H. Kimball, Secretary, East Bay Municipal Utility District, 512 16th St., to furnish and deliver approximately 50,000 ft. 3/4-inch seamless copper tubing. Specifications obtainable from above.

LOS ANGELES, Cal.—Until March 9, 11 A. M., under Advertisement No. 2391, bids will be received by Thos. Oughton, city purchasing agent, to furnish and deliver (1) approximately 500 feet of 12-inch pipe; (2) approximately 500 feet of 16-inch pipe; (3) approximately 500 feet of 18-inch pipe; (4) approximately 500 feet of 20-inch pipe; (5) approximately 500 feet of 24-inch pipe. Certified check or bond for 10 per cent. Specifications obtainable from above.

MANTECA, Stanislaus Co., Cal.—E. R. Van Sant, superintendent of the municipal water system, is preparing estimates of cost to extend system in the southwest and southeast sections of the city.

REDWOOD CITY, San Mateo Co., Cal.—Until March 16, 3 P. M., bids will be received by E. E. Myers, city clerk, to furnish and install two centrifugal booster pumps and motors. Certified check 10% payable to city required with bid. Specifications on

file in office of city clerk and obtainable from C. L. Dimmitt, city engineer.

VALLEJO, Solano Co., Cal.—American Cast Iron Pipe Co., Baiton Bldg., San Francisco at \$17,491 awarded contract by city council to furnish and deliver 4,416 ft. 24-in. bell and spigot cast iron water pipe, 16-ft. lengths, together with fittings and double spigot pipe, U. S. Pipe and Foundry Co., San Francisco, as previously reported, submitted low bid at \$17,333 but specified 12-ft. lengths. Complete list of bids received reported in issue of Mar. 6.

SACRAMENTO, Calif.—Sacramento Pipe Works, Sacramento, at \$1,800.50 awarded contract by city council to furnish 120 4-in. gate valves and 50 6-in. valves for city pipe lines. Complete list of bids follows: *Schaw-Butcher Co., Sacto. \$1,608.00 Water Works Supply Co., S. F. 1,773.00 Sacramento Pipe Works, Sact. 1,800.50 *Bid not in accordance with city specifications.

REDWOOD CITY, San Mateo Co., Cal.—Until March 16, 3 P. M., bids will be received by E. E. Myers, city clerk, to furnish two deep well turbine pumps to be installed in open bored wells. Certified check 10% payable to city required with bid. Specifications on file in office of clerk. C. L. Dimmitt, city engineer.

SONOMA, Sonoma Co., Cal.—Until March 23, 8 P. M., bids will be received by H. W. Gottenberg, city clerk to furnish and install pumping system for city plaza, under the following specifications:

PUMP: Equipped with roller or ball bearing; bronze rotor; c. i. case and cover plate; pump with capacity of 100-gals. per minute when pumping into pneumatic tank against a pressure of 40-lbs. Pump to be mounted on cast iron base with raised edges to catch drip; pump to be direct connected to electric motor by means of flexible coupling.

MOTOR: Of standard make, 220-volts, 3-phase, 60-cycle.

PRESSURE REGULATOR: Of Industrial Control, two-pole type.

TANK: California Code Tank of 550 gal. capacity, complete with water gauge and pressure gauge and openings for pump connections and drain.

Certified check 10% payable to City of Sonoma required with bid. Specifications obtainable from clerk.

PLAYGROUNDS & PARKS

LOS ANGELES, Calif.—City votes bonds of \$1,000,000 for public park improvements and \$1,000,000 to improve playgrounds and recreational centers, the former issue carrying by a vote of 81,249 in favor and 35,409 against, and the latter issue, 81,041 in favor and 36,946 against.

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Phone Garfield 4374

San Francisco

SACRAMENTO, Calif.—City council has authorized plans prepared to grade and pave with asphalt a tennis court in Southside Park. Funds are available in the budget.

MARTINEZ, Contra Costa Co., Cal.—Fred Bullock, Los Angeles, at approximately \$150,000 awarded contract by Alhambra Union High School District for landscape work and general improvement of the junior high school grounds.

OAKLAND, Cal.—City council contemplates a bond of \$2,000,000 to re-employ the unemployed. Of this amount \$400,000 would finance improvements to public parks and playgrounds. Walter N. Prickstad is city engineer.

STREETS AND HIGHWAYS

MODOC COUNTY, Cal.—Until April 2nd, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco for grading project No. 12A, Howard Gulch National Forest Highway in Modoc National Forest, Modoc County, 9,574 miles in length, involving:

- (1) 64 acres clearing;
 - (2) 540 cu. yds. excav. struc.;
 - (3) 118,000 cu. yds. excav. unclass.;
 - (4) 185,000 cu. yds. overhaul;
 - (5) 125 cu. yds. rip-rap;
 - (6) 2,470 lin. ft. C. M. pipe;
 - (7) 9.57 miles finishing earth graded road;
 - (8) 324 cu. yds. class A concrete;
 - (9) 30 cu. yds. class B concrete;
 - (10) 36,000 lbs. reinforcing steel;
 - (11) 45 each right of way monuments
- Plans and specifications obtainable from above on deposit of \$10, returnable certified check of 5% required, payable to Federal Reserve Bank of San Francisco.

PACIFIC GROVE, Monterey Co., Cal.—Granite Const. Co., Watsonville, awarded contract by city council at \$6,500 to improve Laurel Ave. between Congress Ave. and Willow St. and bet. Willow St. and Alder St. Following is the unit bid:

- 1500 lin. ft. concrete curb, \$3.50;
- 1200 lin. ft. concrete gutter, \$4.18;
- 50,000 sq. ft. "Dur-Emulse" on existing base, \$0.09;
- 11 catchbasins, \$50;
- 300 lin. ft. 10-in. corr. pipe, \$1.40;
- 150 sq. ft. concrete cross-gutter, \$2.2;
- 50 sq. ft. concrete driveway approaches, \$2.2.

BAKERSFIELD, Kern Co., Cal.—Proposal to hold an election to decide the question of issuing bonds of \$2,500,000 to finance construction of new roads and repair the present roads, has been rejected by the county supervisors by a vote of 3 to 2.

ORANGE COUNTY, Cal.—Following bids received March 11 by State Highway Commission to grade and pave with Portland cement concrete, 0.9 mile at Colivan Overhead Crossing: Griffith Co., L. A. R.R. Eids, Los Angeles \$35,807
Mattick Bros., Elsinore 37,359
Kavocedich & Price, South Gate 41,727
F. J. Akmadich, Los Angeles 42,790
Sander & Bressler, Santa Ana 46,529
Bids held under advisement.

SANTA CRUZ, Santa Cruz Co., Cal.—Until March 23, 2:45 P. M., bids will be received by S. A. Evans, city clerk (461-C) to improve Vine St. between Church and Locust Sts., involving cement concrete paving, curbs, walks, driveway approaches, vit. clay pipe main, sanitary sewer with wyes, man-holes, vit. clay pipe laterals, w. i. water mains and connections and concrete meter boxes, 1311 ft. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

Roy Fowler, city engineer.

IMPERIAL COUNTY, Cal.—Following bids received March 11 by State Highway Commission to grade and pave with Portland cement concrete 0.9 miles between Holtville and the East High Line Canal: Jahn & Bressler, 724 S Spring St., Los Angeles \$246,159
Basich Bros. Const. Co., Torrance 256,929
McCray Co., Los Angeles 284,075
Griffith & Co., Los Angeles 286,978
Central Calif. Roads and Southern Calif. Roads, L. A. 309,155
Wells & Bressler, Santa Ana 325,276
Sander Pearson, Santa Monica not totaled
Bids held under advisement.

KERN COUNTY, Calif.—Following bids received March 11 by State Highway Commission for grading and the shoulders surfaced with bituminous treated crushed gravel or stone, 29.8 miles between Grape Vine Station and Bakersfield:

A. Teichert & Son, 1846 37th St., Sacramento \$264,404
Frederickson & Watson and Frederickson Bros., Oakland 272,686
F. W. Nighberg, Bakersfield 275,225
G. W. Ellis, Los Angeles 279,514
F. J. Akmadich, L. A. 284,190
Hartman Bros., Bakersfield 285,777
Southwest Paving Co., L. A. 319,772
Gibbons & Reed, Burbank 323,870
Bids held under advisement.

SAN FRANCISCO.—M. Bertolino, 32 Shotwell St., at \$4,526 awarded contract by Board of Public Works to improve Campbell Ave. bet. Alpha and Rutland Sts., involving: 419 lin. ft. concrete curb, \$1.40; 2980 sq. ft. concrete sidewalk, \$1.18; 16 lin. ft. 6-in. V.C.P. side sewer, \$45; 5235 sq. ft. asphalt. conc. pavement, \$4.5; 900 sq. ft. class F concrete pavement, \$3.38.

MODESTO, Stanislaus Co., Calif.—County Surveyor George Macomber making surveys to repair Geer Road, running north of Turlock, from the Turlock Irrigation District lateral No. 3 to Hughson.

SAN FRANCISCO.—M. Bertolino, 32 Shotwell St., at \$992 awarded contract by Board of Public Works to improve Bradford St. bet. Corland Ave. and Powhattan Sts., involving: 167 lin. ft. concrete curb, \$1.10; 25 lin. ft. 6-in. V.C.P. side sewers, \$1.50; 2004 sq. ft. 6-in. class E concrete pavement, \$36.

OAKDALE, Stanislaus Co., Calif.—City trustees seek state appropriation of \$10,000 for widening F St. through Oakdale. The proposed work will cost \$40,000, leaving \$30,000 to be paid by the property owners. The pavement will be of cement concrete.

WILLOWS, Glenn Co., Calif.—City council has accepted proposal of State Highway Commission to pave N Tehama St. from Willow to French Sts. Agreement provides that the state will pave the center 20-ft. and add macadam shoulders, the property owners to finance the curbs and gutters. The state has provided \$25,000 for the work.

EUREKA, Humboldt Co., Cal.—Bids will be asked at once by county supervisors, Fred M. Kay, county clerk, to pave 14 miles of roadway in Districts 1, 4 and 5. Bids will be opened about April 14. Specifications obtainable from Frank Kelly, county surveyor.

MODESTO, Stanislaus Co., Calif.—County Surveyor George Macomber making surveys to widen and repave 3 1/2 miles of main highway to Modesto between the Crows Landing Bridge and the Mountain View school. Shoulders 2 1/2 ft. wide will be placed on either side and the entire roadway surfaced with 5 inches of concrete.

SANTA BARBARA, Cal.—J. G. Donovan & Son, 4031 Goodwin Ave., Santa Barbara, at \$41,800 submitted low bid to the county supervisors to grade and install culverts in Sections 2A and 2B, San Julian Road Project, involving 100,000 cu. yds. excavation; 221 cu. yds. retaining concrete; 82 ft. 8-in., 526 ft. 24-in., 104 ft. 38-in., 154 ft. 36-in., 386 ft. 48-in. and 46 ft. 42-in. corr. iron culverts. Complete list of bids follows:

J. G. Donovan \$41,800
Vaught Bros. 43,632
Ull Truck Co. 43,932
Cruik & Clark 43,996
Wm. H. West 46,992
G. C. Bailey 48,920
Finnell Co. 49,438
Don Mumpo 49,993
Henry C. Dalassi 50,163
Steele Finley 51,518
Rudock-Griffitts Co. 51,733
Robinson-Roberts Co. 52,053
Lilly, Willard & Biasotti 52,066
Santa Maria Const. Co. 53,463
Cornwall Const. Co. 56,800
Gist & Bell 57,105
Sam Hunter 61,898
Western Motor Transfer Co. 62,032
R. L. Oakley 63,807
Macco Const. Co. 67,447
Bids referred to Owen H. O'Neill, county surveyor, for report.

REDWOOD CITY, San Mateo Co., Calif.—County supervisors authorize survey of proposed extension of 19th St. in San Mateo, as a link between the Bayshore Highway and a "quicker route" to the San Mateo-Hayward bridge and the Eastbay cities for southern San Mateo County. The project calls for the reconstruction of the concrete bridge across Seal Creek and for a road across Brewer's Island, which would bring southern county traffic to the bay bridge without using Third Ave., San Mateo.

DO NOT RISK AN EXPERIMENT

SPECIFY -- USE

Timpie Hydrated Lime

STRONG—PURE—PLASTIC

Ten Years of Uniformly Satisfactory Experience in High

Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

Sold by Representative Dealers Everywhere

SAN FRANCISCO.—Bureau of Engineering, Dept. of Public Works, 3rd floor, City Hall, preparing plans to improve 36th Ave. bet. Judah St. and Noriega St., and bet. Vicente St. and Sloat Blvd., and 27th Ave. bet. Vicente St. and south side of Wawona St. This work will be financed from the 1927 Boulevard Bond Construction Fund.

PALO ALTO. Santa Clara Co., Cal.—A. J. Raisch, 46 Kearny Street, San Francisco, at \$65,247.10 awarded contract by city council to improve (962) Palo Alto Ave., Hale, Pope and Dana Sts., Forest Court, Addison and Harker Aves., Webster St., Embarcadero Road, Lane "B" East, Santa Rita Ave., Sherman Ave., Princeton, Oberlin and Harvard Sts. Project involves:

- (1) 350,743 sq. ft. grading;
- (2) 309,520 sq. ft. 6-in. conc. pave.;
- (3) 14,326 lin. ft. conc. curbing;
- (4) 23,137 sq. ft. 4-in. cem. sidewalk;
- (5) 615 lin. ft. 6-in. sewer;
- (6) 690 lin. ft. 6-in. C. I. water main;
- (7) 750 lin. ft. 2-in. W. I. gas main;
- (8) 1 fire hydrant;
- (9) 2 manholes;
- (10) 83 4-in. sewer connections;
- (11) 83 1/2-in. water connections;
- (12) 18 3/4-in. gas connections.

Following is a complete list of bids: A. J. Raisch, San Francisco, \$65,247.10
O. V. Freeman, Palo Alto, 71,548.76
R. Crummev, Oakland, 72,082.46
W. A. Dontanville, Salinas, 72,937.48
Hanrahan Co., San Francisco, 73,373.81
N. M. Ball, Berkeley, 74,235.80
San Jose Paving Co., San Jose, 76,684.95
C. W. Wood, Stockton, 80,532.32
Leo Cardwell Const. Co., Oak
land, 82,161.59
Central Calif. Roads Co.,
Oakland, 83,369.82

MARIN COUNTY. Cal.—O. A. Lindberg, 448 North American St., Stockton, at \$7,450 submitted lowest bid to superintendent of Lighthouses, Customhouse, San Francisco, for constructing 2.5 miles of road in Marin County, extending from Sausalito's Bay into the Point Reyes Lighthouse Reservation; road to have surface of decomposed granite approx. 18 ft. wide. Following is a complete list of bids:

O. A. Lindberg, Stockton, \$ 7,450
Highway Builders, Ltd., San
Anselmo, 7,718
U. B. Lee, San Leandro, 7,987
Paris Bros., Berkeley, 8,110
H. F. Nass & Co., Roadspout,
Oregon, 8,670
C. N. Chittenden, Sappa, 8,991
J. V. Galbraith, Fetalarua, 9,782
McClure & Chamberlain, S. F., 10,130
P. H. Goossen, Larkspur, 10,198
Guerin Bros., San Francisco, 11,142
Ariess-Knapp Co., Oakland, 12,708
Geo. Perez and Antone Gatti,
Richmond, 13,894
J. S. Leibold and B. A. Tro-
boch, San Francisco, 17,875
Bids held under advisement.

MONTEREY COUNTY. Cal.—Edward J. Jameson, P. O. Box 859, Sacramento, is prepared to give sub-bids on the fence work on the Monterey county highway job for which bids will be opened March 25.

SUTTER COUNTY. Cal.—Following bids received March 9 by C. H. Whitmore, district engineer, State Highway Commission, State Office Bldg., Sacramento, to grade and pave with Portland cement concrete, 0.3 mile near county hospital in Sutter County: Hemstreet and Bell, Marys-
ville, \$9,429.80
N. M. Ball, Porterville, 9,647.30
C. W. Wood, Stockton, 9,802.70
Bids held under advisement.

MONTEREY COUNTY. Cal.—Bids will be opened at 2 P. M., March 18, 1931, in office of Forest Service, Ferry Building, San Francisco, from which bids forms are available for the grading and installing of culverts in ap-

proximately 6.6 miles of road in Santa Barbara National Forest in Monterey County, involving moving of around 61,188 cu. yds. of unclassified material and installation of 1560 lin. ft. of culverts. Plans and specifications can be secured from the County Surveyor's office in Salinas, Calif., by deposit of \$5, which will be returned when plans are turned back. Performance and bid bonds will be required. The County of Monterey is now putting out proposals for the construction of an adjacent section of this road and interested bidders should secure the detailed specifications and bid forms from the County Engineer's office in Salinas.

OAKLAND. Cal.—U. B. Lee, 888 Rodney St., Oakland, at \$26,170 awarded contract by city council to improve Masonic Ave., between Florence and Moraga Ave., and portions of Florence and Proctor Aves., Amy Drive and Moraga Ave., adjacent to Masonic Ave. Complete list of unit bids received published in issue of March 6 Lee's unit bid follows:

11,673 cu. yds. excavation, \$75.
5528 lin. ft. concrete curb, \$40.
114,773 sq. ft. concrete gutter, \$20.
80,831 sq. ft. concrete penetration macadam pavement, \$107.
13,597 sq. ft. concrete cement sidewalks, \$15.
30 lin. ft. 8x23-in. corr. iron and cement culvert, \$45.00.
114 1/2 lin. ft. 8x21-in. do, \$400.
74 1/2 lin. ft. 12-in. reinf. concrete pipe conduit, \$160.
236 lin. ft. 15-in. do, \$195.
55 lin. ft. 12-in. extra strength reinf. conc. pipe conduit, \$180.
206 lin. ft. 15-in. do, \$231
1 storm water inlet (2-in. opening), \$70
6 storm water inlets (34-in. opening) \$75.
4 concrete handholes with cast iron culverts, \$40.
59 lin. ft. wooden culvert, \$105.

SUSALITO. Marin Co., Cal.—Until March 15, 8 P. M., bids will be received by W. Z. Tiffany, town clerk, for "bitumens armor-coat" on existing pavement in Valley St. from Second St. to West St. and the return from Valley St. north into Third St., also West St. from Valley St. to the Bridge leading onto Main St., and the return from West St. into Crescent Ave., and also Fourth St. north-erly from Valley St. for a distance of 165 ft. Specifications on file in office of clerk.

SACRAMENTO. Calif.—City council has authorized plans prepared to grade and surface with asphalt a tennis court in Southside Park. Funds are available in the budget.

MENDOCINO COUNTY. Cal.—Until March 18, 2 P. M., bids will be received by F. W. Haselwood, district engineer, State Highway Commission, 546 West Wabash Ave., Eureka, for grading 0.6 mile between Devoey Grove and the north boundary. See call for bids under official proposal section in this issue.

FOWLER. Fresno Co., Cal.—A. W. Wright & Son, Fowler, at \$2158 awarded contract by city trustees to construct sidewalks in west side of Golden State Highway (Eighth St.) Geo. B. Cornell only other bidder at \$2647.

SAN FRANCISCO.—Until March 25, 2:30 P. M., bids will be received by S. J. Hester, Secretary, Board of Public Works, to improve Head St., bet. Shields and Sargeant Sts., involving: (1) 175 lin. ft. armored concrete curb; (2) 4 1/2 in. ft. 6-in. V.C.P. side sewer; (3) 2625 sq. ft. 6-in. Class "E" con-

crete pavement. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor City Hall.

YUBA CITY. Sutter Co., Cal.—City council has started proceedings to widen Plumas street; estimated cost \$22,000

CHICO. Butte Co., Cal.—Until March 29, 8 P. M., bids will be received by H. M. Moore, city clerk, to furnish and deliver 50,000 gallons road oil. Certified check 10% required with bid. Specifications obtainable from clerk.

SANTA BARBARA. Cal.—City council declares intention (1144) to improve Sycacaga St., between Ortega St. and 150 ft. east of Yanonali St., and a portion of Olive St., involving grading, 2-course walk, concrete driveways; 1911 Act. Protests, March 12. E. B. Brown, city engineer.

FRESNO. Fresno Co., Cal.—City Commissioner of Public Works, C. C. Van Valkenburg has completed preliminary estimates of cost, as follows:

Elmhurst California Ave. bottle-neck, \$15,000;
Opening Dennett Ave. and Broadway, \$16,000;
Opening Wilson Ave., \$4400.

CARMEI. Monterey Co., Cal.—Cozens & Davies, engineers, Salinas, commissioned by the city council to prepare plans to pave streets in the downtown district. Specifications will provide for an asphalt concrete base with a "Carmel" top.

SAN FRANCISCO.—Until March 25, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Salinas Ave. east of Wheat Street, involving: (1) 70 lin. ft. armored concrete curb; (2) 20 lin. ft. 6-in. V.C.P. side sewer; (3) 1400 sq. ft. asphalt. conc. pave., consisting of a 2-in. ash. conc. surface on a 6-in. class F concrete base.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN FRANCISCO.—Until March 25, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Goettingen Street bet. Harkness and Wilde Aves., involving:

(1) 20 lin. ft. class F side sewer.
(2) 720 sq. ft. class E conc. pave.
Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

NEVADA CITY. Nevada Co., Cal.—Proceedings have been started by the county supervisors for formation of a road district to finance construction of proposed new road between Grass Valley and Bear River, the Nevada County link of the Grass Valley-Columbia road. J. F. O'Connor is county surveyor.

POSITION WANTED

STENOGRAPHER Bookkeeper, desires position with Architect or Contractor. Experienced in Building Construction, General Contracting and Architectural Work. Phone Fillmore 7211—Miss Madden

701.—Until March 24, 7:30 P. M., bids will be received by Ida H. Stouffer, city clerk, to improve Hermosa Drive, between 1st and 2nd Aves. at point 15 west of San Gabriel Blvd., involving: (1) 100,025 sq. ft. 4-in. Warrentite pavement; (2) 4782 ft. Class "A" curb. 1911 Act. Specifications obtainable from city clerk.

SAN LUIS OBISPO, San Luis Obispo Co., Cal.—Until March 20, 7:30 P. M., bids will be received by Callie J. John, city clerk, (346) to improve Pacific street from Santa Rosa St. to Higgins St. Project involves: 1) 156,000 sq. ft. 8-in. to 8-in. concrete pavement; 2) 29,200 sq. ft. walk; 3) 3833 ft. curb. Est. cost, \$40,000. 1911 Act. Bond Act 1915. Plans on file in office of clerk. Leon Moore, city engineer

KING CITY, Monterey Co., Cal.—City trustees petitioned by property owners to pave portions of 7th St., Underhurst Ave., San Lorenzo Ave., Jassett St., Mildred Ave., etc. Petitioners request grading, curbing, guttering, paving with 5 inches of asphalt macadam pavement, consisting of 4-inch compacted rock base, and in compact asphalt macadam wearing surface, and other improvements where necessary.

NEVADA CITY, Nevada Co., Cal.—Until April 6, 10 A. M., bids will be received by R. N. McCormack, county clerk, to reconstruct county road between Grass Valley and Bear River, the Empire Mine, Feardale and Chicago Park, 9.81 miles in length, in sec. and Imp. Dist. No. 1. Roadbed to be graded 20 ft. wide with a crusher run base and a bituminous macadam surface 16-ft. wide, involving: 1) 6.10 acres clear right of way and 433 stations 34,800 cu. yds. road-way excavation; 2) 8370 tons crusher run base; 3) 6250 cu. yds. crushed rock to be placed; 4) 2533 tons broken stone (bituminous macadam surface); 5) 289 tons emulsified asphalt; 6) 825 barrels light fuel oil; 7) 1574 lin. ft. 8-in. to 36-in. corr. metal pipe; 8) 113 miles property fence.

Work under Acq. & Imp. Act 1925. Certified check 10% payable to County required with bid. Plans obtainable from J. F. O'Connor, engineer for district, at Nevada City on deposit \$10, not returnable.

PACIFIC GROVE, Monterey Co., Cal.—Granite Const. Co. Watsonville, Cal. approx. \$7,000 awarded contract by city council (3305) to improve Fifth St. bet. Ocean View and Lighthouse Aves., and Cypress Ave. and Granite St. bet. Lighthouse Ave. and Laurel Ave., and bet. Laurel Ave. and Pine Ave., involving cem. concrete curbs and gutters; oil macadam surface pavement (composed of graded rock or less than 12 lbs. sq. ft.) and Dur-mule emulsified asphalt; cem. conc. sidewalks; 4-in. vit. clay lateral sewers.

LOS ANGELES, Calif.—City voters bonds of \$3,000,000 to finance street improvements in various sections of the city. The work is to relieve the unemployed. Issue carried by a vote of 82,391 in favor and 36,093 against.

SANTA BARBARA, Calif.—Geo. E. Hue, 408 W. De La Guerra St., awarded contract by county supervisors at 3,738 to improve and widen east end of Mountain Drive, from Cold Spring Road, formerly Palm Drive, to Ashley lead, in Supervisor Dinsmore's dis-

trict. Other bids were: Hunter and Richardson, \$3752.51; Cook & Clark, \$4210; A. B. Cooley, \$4345.15; A. V. Montin, \$5550.

SAN GABRIEL, Los Angeles Co., OAKLAND, Calif.—Hutchinson Co., 1450 Harrison St., Oakland, at \$339 awarded contract by city council to improve portions of Fruitvale Avenue near the Tidal Canal, forming northern approach of Fruitvale Ave. bridge involving:

- (1) 1211 sq. ft. grading, \$85;
- (2) 99 lin. ft. concrete curb, \$75;
- (3) 99 lin. ft. concrete gutters, \$25;
- (4) 1046 sq. ft. 6-in. asph. conc. pave. with 1½-in. asph. binder and 1½-in. asph. surface, \$40;
- (5) 797 sq. ft. existing pavement and gutters to be resurfaced with asphalt concrete, \$20;
- (6) 1 manhole, \$90;
- (7) 1 storm water inlet, \$70;
- (8) 43 lin. ft. 10-in. concrete pipe conduit, \$150.

SANTA CRUZ COUNTY, Cal.—Until April 1, 2 P. M., bids will be received by State Highway Commission to improve 6.5 miles of highway between Waterman Switch-back and Saratoga Gap, 2.5 miles to be graded and surfaced with crusher run base and the entire length to be paved with bituminous macadam.

SANTA BARBARA COUNTY, Cal.—Until April 1, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland cement concrete, 3.7 miles between Wignore and Los Alamos.

SAN DIEGO COUNTY, Cal.—Until April 1, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland cement concrete, 1.5 miles at Bostonia.

HILLSBOROUGH, San Mateo Co., Cal.—Union Paving Co., Call Bldg., San Francisco, at \$1732.50 awarded contract by city trustees to pave portion of West Santa Inez Ave.

SALINAS, Monterey Co., Cal.—City council declares intention (94) to improve portions of Abbott and Summer Sts., involving grading; hydraulic concrete curbs, sidewalks; 6-inch hydraulic concrete pavement. 1911 Act. Bond Act 1915. Hearing April 6, 9 A. M. R. Keef, city clerk. Howard Cozens, city engineer.

MONTEREY, Monterey Co., Cal.—City Council declares intention (3085) to improve Teresa St., bet. Market and Clay Sts., and Garden St., from Clay to High St. and from High St. to the U. S. Military Reservation, involving grading; 2½-in. asphalt concrete base course with 1½-in. asphalt concrete surface; concrete curbs, gutters and walks; twenty-two 4-inch house connection sewers. 1911 Act. Bond Act 1915. Hearing March 24. Clyde A. Dorsey, city clerk.

PORTLAND, Ore.—City council has authorized an election to be held April 7 to vote bonds of \$2,000,000 to finance street and highway improvements. The Multnomah County Commissioners will bear one-half the entire issue.

SANTA BARBARA, Cal.—Until March 19, 2 P. M., bids will be received by Geo. D. Gelb, city clerk, to improve Canyon Perdido St. between Santa Barbara and Milpitas Sts. and portions of Garden St., Laguna St., Vine St., etc., involving grading; concrete pave curbs, gutters, walks; reinf. concrete drain pipe; vit. sewer and house connections. 1911 Act. Plans on file in office of clerk E. B. Brown, city engineer.

MISCELLANEOUS CONSTRUCTION

(Continued from page 18)

Cherry Flats for use in the construction of a dam at the Cherry Flats reservoir to serve Alum Rock Park.

SAN FRANCISCO—Until March 23, 2 P. M., under Proposal No 703, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver museum cases for the M. H. deYoung Memorial Museum. Specifications obtainable from above.

STOCKTON, San Joaquin Co., Cal.—Following bids received by city council to construct comfort station in American Legion Park. Hollow tile to be used in the structure will be furnished by the city.

Proposition is for difference in types of plumbing: I. E. Toothacher, 1131 S. Sutter St., Stockton, at \$498; (1) \$254. H. E. Vickroy, Stockton.....\$1515 (1) \$1347. George R. Biatti, Stockton.....\$1520 (1) \$1410. John Hackman, Stockton.....\$1570 (1) \$1390. B. F. Parsons, Stockton.....\$1636 (1) \$1421.

Bids held under advisement for one week.

MISCELLANEOUS SUPPLIES AND MATERIALS

SAN FRANCISCO.—Until March 16, 2 P. M., under Proposal No. 701, bids will be received by Leonard S. Leavy, city purchasing agent, to furnish and deliver 12,000 feet of rubber water hose for the Park Commissioners. Specifications obtainable from above office.

OAKLAND, Cal.—Until March 18, 5:30 P. M., bids will be received by J. H. Kimball, Secretary, East Bay Municipal Utility District, 512 16th St., to furnish and deliver approximately 50,000 ft. ¾-inch seamless copper tubing. Specifications obtainable from above.

SAN FRANCISCO—General Electric Supply Corp., at \$20.85 per 100 lbs. (allowance of \$20 each for reels), awarded contract by City Purchasing Agent, under Proposal No. 637, to furnish and deliver 1,000 lb. o. b. ear barn, 2600 Geary street, 4 miles of 3/8 round high strength copper alloy trolley wire, (approx. weight per mile, 2675 lbs.)

CHICO, Butte Co., Cal.—Until March 20, 8 P. M., bids will be received by H. H. Hume, city clerk, to furnish and deliver 50,000 gallons road oil. Certified check 10% required with bid. Specifications obtainable from clerk.

BERKELEY, Alameda Co., Calif.—Union Oil Co. awarded contract by city council to furnish and deliver approximately 158,000 gallons of gasoline during next fiscal year. Bid is 10c per gallon.

Unless there is definite assurance that the city of San Jose and the county of Santa Clara can retain control of the types of structures which may be added from time to time to a civic center, no civic center should be attempted, is the opinion of Ernest N. Curtis, San Jose architect, who has prepared a comprehensive scheme for such a project.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Am't.
301	Britt	Owner	3000
302	Hancock	Owner	4000
303	Koenig	Owner	7000
304	Stanley	Owner	10000
305	Reiman	Owner	1000
306	Midbust	Owner	5400
307	Dall	Owner	4000
308	Del Monte	Owner	1300
309	Elkington	Elkington	4500
310	Haynes	Owner	2500
311	Arnott	Arnott	4000
312	Larsen	Owner	1500
313	Pengelly	Owner	3500
314	Johnson	Owner	3200
315	Hunt	Owner	4250
316	Teglia	Harder	17800
317	Arnott	Owner	4000
318	Miller	Stockholm	1500
319	McCormick	Owner	4000
320	Lachman	Electric	1450
321	Bignotti	Carraro	11000
322	Galli	Owner	12000
323	Erickson	Owner	4500
324	Lyon	Dawson	9000
325	Bell	Chall	7500
326	Castle	Owner	6000
327	Stepnikoff	Owner	3000
328	Heglin	Owner	3500
329	Bjorkman	Owner	3850
330	Associated	Owner	5000
331	Portello	Owner	3000
332	Surina	Owner	8000

DWELLING

(301) HAMILTON ST. 125 S Felton; one-story and basement frame dwelling.

Owner—G. W. Britt, 641 Moraga St. Architect—Not Given. \$3000

DWELLING

(302) E 24th AVE. 200 S Moraga St.; one-story and basement frame dwelling.

Owner and Builder—R. W. Hancock, 1801 Jefferson St. Plans by Owner. \$4000

DWELLING

(303) E EIGHTH AVE. 60 S Linares; two-story and basement frame dwelling.

Owner and Builder—C. J. U. Koenig, 520 Church St. Architect—E. A. Neumarkel, 340 Kearny St. \$7000

RESIDENCE

(304) W FERNWOOD 200 S Ravenwood; 2-story and basement frame residence.

Owner and Builder—G. W. Stanley, 467 Turk St. Plans by D. E. Jaekle, Call Bldg. \$10,000

ALTERATIONS

(305) E PIERCE 50 S Beach; alterations to flats. Owner—W. Reiman, 281 Mallorca Way. Architect—Not Given. \$1000

APARTMENTS

(306) SE PACIFIC AVE. and Gough St.; five-story class C (29) apts. Owner and Builder—Peter Midtust, 529 Pierce Street. Architect—H. C. Baumann, 251 Kearny Street. \$84,000

DWELLING

(307) S ROLPH 196 W Athens; one-story and basement frame dwelling.

Owner and Builder—J. Dall, 912 Geneva Avenue. Architect—Not Given. \$1000

ALTERATIONS

(308) 751 HOWARD ST.; alterations to install hydro-electric elevator. Owner—Del Monte Meat Co., 751 Howard Street. Architect—Not Given. \$1300

DWELLING

(309) S SUTRO HEIGHTS 85 E 47th Ave. One-story and basement frame dwelling. Owner—G. J. Elkington, 741 41st Ave., San Francisco. Architect—C. F. Strothoff, 2274 15th St., San Francisco. Contractor—G. J. Elkington & Son, 330 Vicente St., San Francisco. \$4500

DWELLING

(310) N VALLEY 225 E Diamond St.; one-story and basement frame dwelling.

Owner—R. S. Haynes, 3870 22nd St. Engineer—J. G. Little & Co., 251 Kearny St. \$2500

DWELLING

(311) E 29th AVE. 200 N Taraval St.; one-story and basement frame dwelling.

Owner and Builder—J. A. Arnott, 633 Taraval St. Architect—Not Given. \$4000

OFFICE

(312) S PRYANT 225 W 4th St.; 2-story frame office. Owner—Larsen & Larsen, 544 Russ Building. Architect—Kent & Hass, Underwood Building. \$1500

FLATS

(313) W 26th AVE. 100 N Taraval St.; two-story and basement frame (2) flats. Owner—Mrs. M. Pengelly, 2531 22nd Avenue. Architect—Not Given. \$3500

DWELLING

(314) W HARVARD 100 S Pioche; 1-story and basement frame dwelling.

Owner—C. Johnson, 566 Waller St. Architect—Thomas Brothers. \$3200

DWELLING

(315) W 30th AVE. 125 N Kirkham; one-story and basement frame dwelling. Owner and Builder—H. J. Hunt, 1432 17th Ave. Architect—Not Given. \$4250

APARTMENTS

(316) E DIVISADERO ST. 50 N Jelferson; three-story and basement frame (6) apts. Owner—G. and M. Teglia, 3023 Franklin Street. Plans by B. K. Dobkowitz, 425 Montrey Blvd. Contractor—G. Harder, 1233 41st Ave. \$17,800

DWELLING

(317) W CECILIA 209 N Santiago one-story and basement frame dwelling. Owner and Builder—J. A. Arnott, 63 Taraval St. Plans by Owner. \$400

GARAGE

(318) 36 PRESIDIO TERRACE; one-story frame private garage. Owner—A. Miller, 36 Presidio Terrace. Architect—Not Given. Contractor—C. Stockholm & Sons, 1330 Russ Bldg. \$150

OFFICES

(319) NE EVANS and Napoleon; one-story frame offices. Owner—C. R. McCormick Lumber Co, 215 Market St. Architect—Not Given. \$400

SIGN

(320) 1545 MARKET St.; electric sign. Owner—Lachman Bros., 1545 Market Street. Architect—Not Given. Contractor—Electrical Prod. Corp., 2 Golden Gate Ave. \$145

APARTMENTS

(321) W DOLORES 114 S 30th St. two-story and basement frame (4) apartments. Owner—J. Bignotti, 21 Concord St. Architect—Not Given. Contractor—G. Carraro, 750 Felton St. \$11,600

DWELLINGS

(322) E 24th AVE. 150 N Lawlor three 1-story and basement frame dwellings. Owner and Builder—R. F. Galli, 157 28th Ave. Plans by Owner. each \$400

DWELLING

(323) W 35th AVE. 100 S Judah St. one-story and basement frame dwelling. Owner and Builder—Erickson Bros, 1863 8th Ave. Plans by Owner. \$150

ALTERATIONS

(324) 3245 PACIFIC AVE.; alteration to residence; new plaster front; slate roof and general repairs. Owner—R. Lyon, 3132 Pacific Ave. Architect—W. C. Perry, 260 California Street. Contractor—J. Dawson, 1507 Lincoln St., Berkeley. \$900

CLEANING WORKS

(325) SW COR. BRADY and Stevenson Sts.; two-story class C dyeing and cleaning works. Owner—Elli Bros., Mills Bldg. Architect—E. H. Denke, 1317 Hyde St. Contractor—Cahill Bros., 206 Sanson Street. \$750

FLATS

(326) LINCOLN WAY 57 W 23rd Ave.; 2-story and basement frame (2) flats.

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

Owner and Builder—Castle Bldg. Co., 835 Market St.
Plans by E. C. Baker, 533 Ramehall St.
\$6000

STORAGE BLDG.
(327) E HARRISON ST. 132 S 20th St.; 3-story and basement frame dwelling building.
Owner—Stepnikoff, 901 DeFazio St.
Plans by A. M. Hardy, 686 Harrison Street.
\$3000

DWELLING
(328) W 22nd AVE. 100 S Moraga; one-story and basement frame dwelling.
Owner and Builder—B. Heglin, 1245 24th Avenue.
Plans by Owner.
\$3500

DWELLING
(329) E TARA 125 S Niagara; one-story and basement frame dwelling.
Owner—J. Bjorkman, 912 Geneva Ave.
Architect—Not Given.
\$3850

SERVICE BLDGS.
(330) SW COR. 19th AVE. and Lincoln Way; two 1-story class C service station bldgs.
Owner—Associated Oil Co., 74 New Montgomery St.
Architect—Not Given.
\$5000

DWELLING
(331) W JENNINGS 100 S Shafter; one-story and basement frame dwelling.
Owner—T. Portello, 1843 Jennings St.
Architect—Not Given.
\$3000

APARTMENTS
(332) E CAIP 25 N Adair; two-story and basement frame (4) apts.
Owner and Builder—A. and R. Surina, 65 Capp St.
Architect—Not Given.
\$8000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
60	Cutter	Jensen	4050
51	Lynn	Pacific	2273
52	Gilbert	Strehlow	11382
53	Teglia	Harder	17800

STORE
(50) SE 33rd AVE. and Clement St. E 24 x S 100; one-story cabin and store building.
Owner—M. E. Cutter, Alex Cutter and Mrs. Ross.
Architect—Albert H. Larsen, 447 Sutter Street.
Contractor—G. P. W. Jensen, 320 Market Street.

Filed, Mar. 5, '31. Dated, Feb. 26, '31.
Roof completed.....\$1012.50
Interior & exterior plastered 1013.50
Completed and accepted..... 1012.50
Usual 35 days..... 1012.50
TOTAL COST, \$4059
Bond, \$2000. Sureties, G. K. Jensen and H. M. Snyder. Limit, 60 days. Plans and Spec. filed.

ELEVATOR
(51) SE BRODERICK St. and Golden Gate Ave.; 1 overhead, V-groove, worm and gear traction, automatic passenger elevator.
Owner—C. E. Lynn, 1435 Steiner St.
Architect—Not Given.
Contractor—Pacific Elevator and Equipment Co., 45 Rausch St.
Filed March 9, '31. Dated July 29, '30.
Ralls installed.....25%
Machinery delivered.....50%
Completed and accepted.....25%
TOTAL COST, \$2773

RESIDENCE
(52) LOT 27 and SW 16-665 ft Lot 28 Blk 11, Forest Hill; all work for 1200 sq. ft. residence, except heating, painting and window shades.

Owner—Estelle D. Gilbert, 2033 Turk Street.
Architects—Henry C. Smith and Albert R. Williams, Humboldt Bank Bldg.

Contractor—Strehlow & LaVela, Webster and Central Sts., Alameda.
Filed March 10, '31. Dated March 9, '31.
When concrete walls are up & 1st floor joists set.....12 1/2%
Frame up ready for lather.....12 1/2%
Brown coated and 1st coat on exterior.....25 %
Usual 35 days.....25 %
TOTAL COST, \$11,382
Bond, \$5700. Sureties, A. F. Strehlow, R. C. Strehlow. Limit, 90 days. Plans and Spec. filed.

GUILDING
(53) E DIVISADERO 34-1/4 N Jefferson N 25 x E 106-1/2; all work for 3-story and garage frame bldg.
Owners—G. and Mary Teglia.
Plans by B. K. Dobkowitz, 425 Montecrey Blvd.
Contractor—Gerrit Harder, 1558 46th Avenue.

Filed Mar. 11, '31. Dated Mar. 6, '31.
First floor joists set.....\$2500
Roof boards on..... 3500
Prown coated..... 4300
Accepted..... 3500
Usual 35 days..... 4000
TOTAL COST, \$17,500
Bond, \$8900. Sureties, The Fidelity & Casualty Co. Limit, 150 days when March 10.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
March 5, 1931—W NINETEENTH AVE 75 N Quintara N 25x120. F J Reuter to whom it may concern.....	March 3, 1931—LOT 26 BLK G Outhill Heights Tract. J E and M A Collins to whom it may concern.....
March 5, 1931—NO. 730 DARIEN Way. Thos J Sullivan to whom it may concern.....	March 5, 1931—25th AVE 281-50 N Fulton N 30 x W 120. F Anderson to whom it may concern.....
March 5, 1931—LOT 12 BLK 2901C Sub No 4, Miraloma Park. Meyer Bros to whom it may concern.....	March 4, 1931—SE CALIFORNIA & Joice S 77-6 E 60 N 8-9 E 20 N 68-9 W 80. Marian Realty Co Ltd to whom it may concern.....
March 4, 1931—W 21st AVE 281-50 N Fulton N 30 x W 120. F Anderson to whom it may concern.....	March 4, 1931—N HALE 125 SW Boylston, Blk 2 Hayman Tract. J Pochly to S Rosen.....
March 4, 1931—LOT 17 BLK 17 17th Ave E 30 x N 100. L B Hammond to whom it may concern.....	March 4, 1931—N ANZA 107-6 W 21st Ave W 25 x S 100. Rose Pinkham to whom it may concern.....
March 4, 1931—N HALE 125 SW Boylston, Blk 2 Hayman Tract. J Pochly to S Rosen.....	March 3, 1931—N DEWEY BLVD. 331 E Pechee St. Chas Andersen to whom it may concern.....
March 4, 1931—E 22nd Ave 316 N Judah N 24-9 x 120. H Christensen to whom it may concern.....	March 3, 1931—MASONIC AVE and Turk St. Associated Oil Co to Reavey & Spivock, Ltd.....
March 4, 1931—E 22nd Ave 316 N Judah N 24-9 x 120. H Christensen to whom it may concern.....	March 3, 1931—180 29th AVE. E. L. and S Breslauer to McInerney & Bohnen.....
March 4, 1931—N HALE 125 SW Boylston, Blk 2 Hayman Tract. J Pochly to S Rosen.....	March 3, 1931—NW MADRID ST 100 SW Italy Ave 25x100. A Williams to whom it may concern.....
March 4, 1931—E 22nd Ave 316 N Judah N 24-9 x 120. H Christensen to whom it may concern.....	December 27, 1930
March 4, 1931—LOT 21 BLK 26 City Land Assn. T F Ward to C and F Gellert.....	March 7, 1931

March 6, 1931—W RONDEL PLACE 377-7 S 16th and also dist 133-10 1/2 E Valencia S 32-5 x W 46-4 1/2 and A Reiche to Lindgren Bros..... February 17, 1931

March 6, 1931—COMG at Iron spike at Inter SE Mission and Silver Ave S 76 deg 42 min E 23 1/4 S 89 deg 8 min E 227-935 N 89 deg 67 min E 181-264 N 89 deg 13 m.c. E 38-69 S 31 deg W 920-15 N 59 deg 59 min W 716-85 N 41 deg 15 min E 337-05 N 35 deg 02 min E 242-199. Hohweg Home for Aged Disabled to H F Haverkamp, F J Klimm Co (two completions)..... March 6, 1931

March 6, 1931—N PARK 540 W Andover blk 6 Holly Park Tract. D and J Gillias to A. Anderson..... March 6, 1931

March 6, 1931—SW NINTH and Sanchez Sts, 67x70. Y O Parker to H A Thrald..... March 5, 1931
March 6, 1931—NW HOWTH 25 NE Mt Vernon NE 25 x NW 90. S. P. and C Medina as Modia Art Co. to P Sabela as Acme Floor Co to Arthur Dockwell..... March 6, 1931
March 11, 1931—SIXTEENTH ST. Southern Pacific Co to whom it may concern..... March 6, 1931

LIENS FILED

San Francisco County

Recorded	Accepted
March 6, 1931—N JACKSON 87-6 E Steiner E 25 x N 117-5 1/4. A. Ramirez vs H and M von Satern.....	March 5, 1931—SE CHESTNUT ST and Kearny E 40 x S 68-9. Porter Electric Co vs C S Mayes, Argonaut Inv Co and C R Danziger.....
March 6, 1931—S CHESTNUT ST and Kearny E 40 x S 68-9. Mortenson Const Co vs C S Mayes and Argonaut Inv Co.....	March 6, 1931—SE CHESTNUT and Kearny E 40 x S 68-9. O C Callum vs C S Mayes and Argonaut Inv Co.....
March 6, 1931—SE CHESTNUT and Kearny E 40 x S 68-9. Inland Floor Co vs Argonaut Inv Co.....	March 5, 1931—SE CHESTNUT and Kearny E 40 x S 68-9. C O Clausen and F F Amandes, \$450; P Martire and R Alessandri \$875 vs C S Mayes and Argonaut Inv Co.....
March 5, 1931—SE CHESTNUT and Kearny E 40 x S 68-9. Star Ornamental Iron Works vs C S Mayes and Argonaut Inv. Co.....	March 4, 1931—SW GEARY ST and Grant Ave S 27-6 x W 80. Otis Elevator Co vs A E Bates, C A, G C and J F Kavanagh, The Paragon, H Goldstone.....
March 5, 1931—LOT F 17th Ave W Estate, Oak Knoll Trct, Oakland. Berkeley Bldg Materials Co vs Theo R and M L Dienger.....	March 9, 1931—LOT F 17th Ave W Estate, Oakland. Berkeley Bldg Materials Co vs Theo R and M L Dienger.....
March 9, 1931—SE TENTH AVE 120 ft NE of East 32nd St, Oakland. LeRoy Olson Co vs Umberto and Margaret C Olson.....	March 9, 1931—1368 East 25th St, Oakland. Clyde H Manley vs F W and Laura M Maurice.....
March 7, 1931—LOT F 132, Fairway Estates in Oak Knoll, Oakland. The Rigney Title Co vs The Rigney Marie L Dienger.....	March 7, 1931—PTN LOT 21 BLK A, Grand Avenue Heights, Oakland. L M Rasmussen vs Theo R and Marie L Dienger.....
March 7, 1931—NW FAIRWAY AVE and Twin Oaks Way, Oakland. West Coast Window Shade Service vs Theo R Dienger.....	March 7, 1931—NW FAIRWAY AVE and Twin Oaks Way, Oakland

BUILDING AND ENGINEERING NEWS

Morgan Elec. Co, Ltd vs Theo R Dienger\$75
 March 3, 1931—LOT 16 BLK 22, map No 8 of Regents Park Al, bany. C E Sperry vs Paul C Groce\$116.25
 March 9, 1931—SE CHESTNUT and Kearny E 40 x S 68-9. Roberts Mfg Co vs R Danziner, Argonaut Inv Co and C S Mayes.....\$400
 March 9, 1931—SE GREENS AND LANGUNA STS E 25 x S 100. Geo S Myers and C Sandeen vs D Barwald.....\$750
 March 9, 1931—N JACKSON 87-6 E Steiner E 25 x N 117-8 1/4. Christenson Lbr Co vs Henri and Marie von Sabren.....\$135.50
 March 9, 1931—SE CHESTNUT and Kearny Sts S 68-9 x E 40. Golden Gate Concrete Co \$226.80; A J Ruhlman, \$81, vs Carolyn S Mayes and Argonaut Inv Co.....\$225.72
 March 7, 1931—N PACIFIC AVE and E Battery St. N 57-6 x E 30. F J Kaelber vs P Cogna and G Guglielmo.....\$99
 March 7, 1931—S CHESTNUT and E Kearny Sts E 40 x S 68-9. H W Cummings vs C S Mayes and Argonaut Inv Co.....\$225.72
 March 6, 1931—SE CHESTNUT and Kearny E 40 x N 68-9. Marshall Newell Supply Co, \$471.14; R P Paoli & Co, \$990; Acme Bldg Supply Co, \$1383.75; National Sheet Metal Works, \$12; John J Delucchi, \$165.50; H Williamson Co, \$406.71; Neils Andersen, \$723.25, vs Argonaut Inv Co and C S Mayes\$1616.80
 March 9, 1931—SE CHESTNUT and Kearny E 40 x S 68-9. Malott & Peterson vs Argonaut Inv Co and C S Mayes\$1616.80

Owner and Builder—Andrew Hexem, 2959 California St., Oakland. Architect—Not Given. \$3350
SHOPS
 (250) NW COR. HIGH and Wattling Sts., OAKLAND; two-story concrete shops. Owner—Oakland Public Schools, 1025 2nd Ave., Oakland. Architect—Not Given.
 Contractor—Strehlow & LaVoie, 600 Central Ave., Alameda. \$28,719
STUDIO
 (251) S 29th ST. 499 E Broadway, OAKLAND; one-story concrete studio. Owner—Waters & Hainlin. Architect—F. H. Reimers, 233 Post St., San Francisco. Contractor—J. F. Altermott, 975 Euclid Ave., Oakland. \$4000
 (252) NO. 2029 CHANNING WAY, BERKELEY. Alterations. Owner—Langandoff Bakery, 1160 McAllister St., San Francisco. Architect—Not Given. Contractor—Barrett & Hip, 918 Harrison St., San Francisco. \$1200
DWELLING
 (253) E 73rd AVE. 146 S Outlook Ave. OAKLAND; 1-story 5-room dwelling and 1-story garage. Owner—Clark & Moore, 4650 E 14th St., Oakland. Architect—Not Given. Contractor—A. E. Waldman, 331 17th St., Oakland. \$3250
DWELLING
 (254) N CLEMENS ROAD 150 E Lyman Road, OAKLAND; one-story 6-room dwelling. Owner and Builder—Victor Jacks, 1918 Prince St., Berkeley. Architect—Not Given. \$4000
ALTERATIONS
 (255) NE COR. 12th and Washington Sts., OAKLAND; alterations. Owner—Foreman & Clark, 12th and Washington Sts., Oakland. Architect—Not Given. Contractor—C. D. DeVelbiss, 354 Hobart St., Oakland. \$2000
DWELLING
 (256) NO. 455 E-TWELFTH ST., SAN LEANDRO. One and one-half-story 5-room dwelling. Owner—A. P. Jensen, 114 Sunnyside Drive, San Leandro. Architect—Not Given. \$3900
RESIDENCES
 (257) NO. 2099-41 HALEYAN COURT, BERKELEY. Two one-story five-room 1-family frame residences. Owner—J. J. Geary, 1221 Grand Ave., Piedmont. Architect—Not Given \$3000 each
DWELLING
 (258) NO. 942 BRIDGE ROAD, SAN LEANDRO. One-story six-room dwelling. Owner—R. Gurdwood. Architect—Not Given Contractor—Nylander Bros., 633 Montclair Ave., San Leandro. \$4000
ADDITION
 (259) NO 324 BREED AVE., SAN LEANDRO. Two-room addition. Owner—E. B. Kientz, Premises. Architect—Not Given. Contractor—C. A. Gossett, 327 Woodland Park. \$1600
DWELLING
 (260) NO. 1631 PEARL, ALAMEDA. One-story 6-room frame and stucco dwelling. Owner—Walter H. Anderson, 1014 Doris Court, Alameda. Architect—Not Given. \$3900

STATION
 (261) NO. 2501 SANTA CLARA AVE., ALAMEDA. One-story concrete super-service station. Owner—Gilmore Gasoline Co, 2423 E. 28th St., Los Angeles. Architect—Wm. H. Carr, Second and Gilman Sts., Berkeley. Contractor—Gilmore Oil Co., Los Angeles. \$3000
APARTMENTS
 (262) NO. 530 SANTA CLARA AVE., ALAMEDA. Three-story 57-room frame and stucco apartments. Owner—J. M. Kinley, 729 Central Ave., Alameda. Architect—Not Given. \$50,000
ALTERATIONS
 (263) 2114 BERKELEY WAY BERKELEY; alterations. Owner—Campus Cleaners, 1961 Shattuck Ave., Berkeley. Architect—Not Given. Contractor—Sullivan & Sullivan, 2927 39th Ave., Oakland. \$1200
ELECTRIC SIGN
 (264) S 15th STREET 80 E Broadway OAKLAND electric sign. Owner—Gale Compton. Architect—Not Given. Contractor—Imp Elec. Sign Co., 2228 Myrtle St., Oakland. \$1000
REPAIRS
 (265) 1709-1724 BROADWAY, OAKLAND; fire repairs. Owner—"Money Back" Smith, premises. Architect—Not Given. Contractor—F. A. Muller, 805 Syndicate Bldg., Oakland. \$35,000
DWELLING
 (266) 4101 KUHNLE AVE., OAKLAND; one-story 3-room dwelling. Owner & Builder—W. H. Olanie, 4101 Kuhnle Ave., Oakland. Architect—Not Given. \$1850
DWELLING
 (267) S SIMMONS ST. 80 E Morcom Ave., OAKLAND; one-story five-room dwelling. Owner—E. M. Fleemly. Architect—Not Given. Contractor—Fred T. Dooley, 2936 Vale Ave., Oakland. \$3000
RESIDENCE
 (268) 1633-35 ARCH ST., BERKELEY; two-story 10-room 2-family frame and stucco residence. Owner and Builder—Milton S. Bond, 1655 Scenic Ave., Berkeley. Architect—Not Given. \$8500
RESIDENCE
 (269) NO. 644 CRAGMONT AVE., BERKELEY. One-story 6-room 1 family frame residence. Owner and Builder—Frank H. Felt, 2050 McGee Ave., Berkeley. Designer—H. Heoil. \$4000
DWELLING
 (270) W WATERHOUSE ROAD, 390 E Casterline, OAKLAND; 1-story 4-room dwelling. Owner—Dr. A. W. Childers, 820 21st St., Oakland. Architect—Not Given. Contractor—H. L. Vallero, 3650 Maple Ave., Oakland. \$1300
APARTMENTS
 (271) 2451 SEMINARY AVE., OAKLAND; three-story 66-room pts. Owner—Mrs. Ethel D. Magoon, 1967 Courtland Ave., Oakland. Architect—Not Given. Contractor—E. B. Magoon, 1967 Courtland Ave., Oakland. \$40,000
ADDITION
 (272) 3410 38th AVE., OAKLAND; addition.

RELEASE OF LIENS

San Francisco County

Recorded	Amount
March 7, 1931—W THIRD AVE 224-9 N Geary N 25-0 1/2 x W 120. S. F. Dal Porto to John Daly.....	
March 4, 1931—3006 FRUITVALE AVE, Oakland, Charles Edw Gray doing business as East Bay Spraying Co to Fruitvale Truth Center, B Cerf, Anna A Goss.....	\$204.10
March 3, 1931—E 30th AVE 175 N Ulloa N 25 x E 120. Christenson Lumber Co to R L Hanlon and A M Hardy.....	

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
249	Hexem	Owner	32150
250	Oakland	Strehlow	28713
251	Waters	Altermott	4000
252	Langandoff	Barrett	1200
253	Clark	Waldman	3200
254	Jack	Owner	4000
255	Foreman	De Velbiss	2000
256	Jensen	Owner	6000
257	Geary	Nylander	4000
258	Gurdwood	Owner	3900
259	Kientz	Gossett	1600
260	Anderson	Owner	3900
261	Gilmore	Gilmore	5000
262	Kinley	Owner	2000
263	Campus	Sullivan	1200
264	Compton	Imp	1000
265	Smith	Muller	5500
266	Olanie	Owner	1850
267	Fleemly	Dooley	3900
268	Bond	Owner	4000
269	Felt	Owner	4000
270	Childers	Vallery	1900
271	Magoon	Magoon	40000
272	Smiley	Fleming	2350
273	Applebaum	Marchant	9500
274	Meyer	Orth	4000
275	Garatti	Owner	3950

DWELLING
 (249) S 106th AVE. 268 E Breed Ave., OAKLAND; 1-story 6-room dwelling.

Owner—M. Smiley, 3410 35th Ave.
Contractor—John Fleming, 4261 Suter St., Oakland. \$2350

DWELLING
(273) 1140 CONTRA COSTA ROAD, OAKLAND; two-story nine-room dwelling.

Owner—Carl Appelbaum, 5364 Broadway, Oakland.
Architect—Masters & Hurd, 210 Post St., San Francisco.
Contractor—Gordon Marchant, 3 2 0 1 Bruce St., Oakland. \$9500

RESIDENCE
(274) 353 COLUSA AVE., BERKELEY; one-story 6-room and garage 1-1/2-family frame residence.
Owner—G. P. Meyer, 1 6 2 1 Sonoma Ave., Berkeley.
Contractor—H. C. Orth, 1821 Addison St., Berkeley. \$4000

GARAGE
(276) SE COR. 83rd AVE. and Foot-hill Blvd., OAKLAND; one-story brick garage.
Owner and Builder—F. Garatti, 2212 21st Ave., Oakland.
Architect—Not Given. \$2950

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded Accepted
March 5, 1931—921 EUCLID AVE., Berkeley. Rayce N Altermatt to J F Altermatt.....January 10, 1931
March 6, 1931—726 HILLDALE AVE Berkeley. Albert Hammarberg to Self.....March 4, 1931
March 6, 1931—LOT 2 BLK 4, Highland Manor, Oakland. Leo J Dolan to Walter Johnson.....March 3, 1931
March 6, 1931—310 KEY ROUTE Blvd, Albany. George W Erickson to Self.....March 4, 1931
March 4, 1931—E STANNAGE AVE 206 ft 8 -in N of Dartmouth St., Albany. Ernest R Jervis to whom it may concern.....February 28, 1931
March 5, 1931—E WASHINGTON ST 75 ft S of 10th St., Oakland. De Verins, Inc to J L Rich.....February 28, 1931
March 5, 1931—SIXTH and Grayson Sts, Berkeley. Philadelphia Quartz Co of Calif, Ltd to W E Lyons.....February 28, 1931
March 5, 1931—E STANNAGE AVE 200 ft N of Dartmouth St, Albany. Lawrence De Luchi to whom it may concern.....February 28, 1931
March 5, 1931—LOT 175, Junction City Tract, Eden Twp. George Holdorff to whom it may concern.....March 4, 1931
March 4, 1931—LOT 4 BLK Q, Glenwood Extension, Oakland. Addison Moore to whom it may concern.....March 2, 1931
March 7, 1931—LOT 13, Broadmoor Park, San Leandro. J E and Margaret Hayes to P R Hauhan.....March 4, 1931
March 7, 1931—No. 350 GROTON Ave., Oakland. S Brenner to Prentice Constr Co.....March 6, 1931
March 7, 1931—LOT 25 BLK G, Estudillo Estates, San Leandro. Charles H and Effie M Thomas to whom it may concern.....Mar. 7, 1931
March 7, 1931—No. 149 GROTON St., Berkeley. Henry Kauppila to whom it may concern.....Mar. 1, 1931
March 7, 1931—LOT 10 BLK E, Mulford Gardens Addition, San Leandro. Joseph B and Edna R Rist to whom it may concern.....March 7, 1931
March 8, 1931—OXFORD ST and Berkeley Way, Berkeley. The Regents of the University of California to Barrett & Hill.....March 2, 1931
March 9, 1931—NW BROADWAY & 29th St., Oakland. E John Maginn and Grover A Magnin to Chas W Heyer, Jr.....March 7, 1931

March 10, 1931—LOTS 29 and 30 Blk 30, Map No 8 of Regents Park, Albany. Thorvald and Caroline Pedersen to whom it may concern.....March 9, 1931
March 10, 1931—SE 35 ft LOT 8, Forest Park Tract, Oakland. C W Leekins to whom it may concern.....March 7, 1931
March 10, 1931—WESTGK ST at the Oakland Estuary, Alameda. Associated Oil Co to Berkeley Steel Const Co, Inc.....March 5, 1931
March 10, 1931—NW EXCELSIOR Ave and Emerson St, Oakland. The Roman Catholic Archbishop of San Francisco to Thos F L Furlong.....March 4, 1931
March 10, 1931—NW EXCELSIOR Ave and Emerson St, Oakland. The Roman Catholic Archbishop of San Francisco to W W Makin.....March 3, 1931

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
March 9, 1931—BLOCK F-131, Fairway Estate, Oak Knoll Tct, Oakland. Berkeley Eldg Materials Co vs Russell D Ellis and R Jervis.....	\$249.93

RELEASE OF LIENS

Alameda County

Recorded	Amount
March 9, 1931—S UNIVERSITY Ave 200 ft E of McGe St, Berkeley. Carl H, George H and Herman K Fox, co-partners, doing business as Fox Bros to C B Radston and Indoor Golf Courses, Ltd.....	\$131.143
March 9, 1931—LOTS 107 and 108, St. James Wood, Piedmont. George J Maurer to Clarence A and Mildred I Murphy.....	\$1956

BUILDING PERMITS

SAN MATEO

BUNGALOW, \$4500; Lot 3 Part Lot 4 Blk 4, No 822 Fifth Ave., San Mateo; owner and contractor, E. D. Ward, 1510 Drake St., San Mateo.
BUNGALOW and garage, 4000; E 45 ft. Lots 4, 5 and 6 Blk 28, No. 629 First Ave., San Mateo; owner and contractor, C. G. and G. E. Beals.
RESIDENCE, \$2000; Lot 16 Blk H, No. 317 Grand Blvd., San Mateo; owner, Mrs. Edith Redding, 317 Grand Ave., San Mateo; contractor, G. W. Williams Co., Ltd., 1404 Broadway, Burlingame.
RESIDENCE, \$4000; W 30 ft. Lot 23; E 10 ft. Lot 24 Blk 7, 25th Ave., San Mateo; owner, Castle Bldg. Co., 830 Market St., San Francisco contractor, G. W. Morris, 730 Athens St., San Francisco.
RESIDENCE, \$3000; W 40 ft. Lot 3 Blk 4, 26th Ave., San Mateo; owner, Castle Bldg. Co., 830 Market St., San Francisco; contractor, G. W. Morris, 730 Athens St., S. F.

RESIDENCE, \$7500; Lot 68, No. 829 N-Idaho St., San Mateo; owner and contractor, J. L. De Benedetti, 134 Elm St., San Mateo.
BUNGALOW, \$4000; Lot 7 Blk 29, No. 915 S-Forrest St., San Mateo; owner and contractor, Morris Luken.
BUNGALOW, \$6700; E 44 1/2 of Lot 15 No. 193 Bonial St., San Mateo; owner, Acton E. O'Donnell; contractor, Frank Perrea, 712 5th Ave., San Mateo.
FIRE repairs to store, \$1000; N Ptn. Lot 140, No. 1961 El Camino, San Mateo; owner, Geo. Denny, Prem.; contractor, Ira W. Coburn.

BUILDING CONTRACTS

SAN MATEO COUNTY

STORE, ETC.
PART LOT 5 BLK 7, Woodland Place. All work for store building and 4-car garage.
Owner—John Huss, 1902 University Ave., Palo Alto.
Architect—Not Given.
Contractor—A. C. Heald, 1921 University Ave., Palo Alto.
Filed March 7, '31. Dated March 1, '31
Enclosed1864.25
Brown coated1864.25
When completed1864.25
Usual 35 days.....1864.25
TOTAL COST, \$7457.00
Bond, none. Limit, 90 working days.
Forfeit, plans and specifications, none

BUNGALOW
LOTS 8 AND 9 BLK 7, San Bruno. All work for one-story frame and stucco bungalow.
Owner—Gino Barsocchini et al.
Architect—Not Given.
Contractor—O. H. Taylor, 253 Santa Helena Ave., San Bruno.
Filed March 2, '31. Dated Feb. 28, '31.
Frame up\$387.50
Brown coated887.50
Completed887.50
Usual 35 days.....887.50
TOTAL COST, \$3500.00
Bond, none. Limit, 75 working days.
Forfeit, \$2.50. Plans and specifications filed.

BUNGALOW
LOTS 9 AND 10 BLK 7, Woodland Place. All work for five-room hungalow.
Owner—A. Radivoj, 400 Donohoe St., Palo Alto.
Architect—Not Given.
Contractor—C. A. Heald.
Filed Mar. 2, '31. Dated Mar. 2, '31.
Enclosed\$630.25
Plastered630.25
Completed630.25
Usual 35 days.....630.25
TOTAL COST, \$2521.00
Bond, none. Limit, 90 working days.
Forfeit, plans and specifications, none.

DWELLING
PART LOTS 86 AND 82, San Mateo Park (Baldwin & Howell Sub.)
All work for one and one-half-story frame dwelling.
Owner—Acton E. O'Donnell, San Francisco.

Member Insurance Brokers' Exchange

FRED H. BOGGS

INSURANCE

490 GEARY STREET

Phone FRanklin 9400 San Francisco

Architect—Not Given
 Contractor — Frank J. Terrea, San Mateo.
 Filed Mar. 2, '31. Dated Feb. 26, '31.
 Frame up\$1693.75
 Brown coated 1693.75
 Completed 1693.75
 Usual 35 days 1693.75
 TOTAL COST, \$6775.00
 Bond, none. Limit, 90 working days.
 Forfeit, plans and specifications none.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
 March 6, 1931—LOTS 14, 15, 16 AND 17 Blk 1, Bayview Heights. Louis J Atkinson et al to Louis N Polard.....March 4, 1931
 March 7, 1931—LOT 20 BLK 4, Fair Oaks Acres. Walter L Colbert to whom it may concern.....March 5, 1931
 March 7, 1931—LOT 1 BLK 1, Bayview Heights. C C Crow et al to whom it may concern.....Feb. 28, '31
 March 3, 1931—LOT 9 BLK 24, Milbrae Highlands. John M Johnson to whom it may concern.....Mar. 2, 1931
 March 3, 1931—LOT 10 BLK 3, Burlingame Shore Land Co. Roy Allen to whom it may concern.....March 2, 1931
 March 3, 1931 — LOT 11 BLK 54, Easton. Josephine Becker to whom it may concern Feb. 25, 1931
 March 4, 1931—LOT 16, Hillsborough Heights. Lengfeld & Olund to whom it may concern. March 3, 1931
 March 4, 1931—LOT 8 BLK 21, East San Mateo. Lengfeld & Olund to whom it may concern.....March 3, 1931
 March 4, 1931—LOT 2 BLK 20, East San Mateo. Lengfeld & Olund to whom it may concern.....March 3, 1931
 March 4, 1931—LOT 14 BLK 1, Edgewood Park. Z T Thorning et al to whom it may concern.....March 2, 1931
 March 4, 1931—SAN MATEO Calen Tjader to Lengfeld & Olund.....March 3, 1931
 March 4, 1931—LOT 52, Wellesley Park. Fanny I Keith to whom it may concern.....Feb. 24, 1931
 March 5, 1931—LOT 16 BLK 6, North Palo Alto. Jack D Ymoult to whom it may concern. March 4, 1931
 March 5, 1931—OAK KNOLL. Percy K Mayer to whom it may concern.....March 1, 1931
 March 2, 1931—LOT 44 BLK 4, Huntington Park. Robert Lyon et al to John J Furness.....March 2, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded Amount
 March 6, 1931—LOTS 43 AND 44 Chas. Weeks Poultry Colony vs R McNulty alias vs G Vega et al.....\$477.91
 March 6, 1931—LOT 4 BLK 22, Lomita Park. F M McNulty alias vs L R Milne et al.....\$982.12
 March 6, 1931—LOT 15 BLK M, San Bruno. Henry Covell Lime & Cement Co vs J R MacDonald.....\$37.76
 March 6, 1931—LOT 3 BLK 10, University Heights. Merner Lumber Co vs Albert W Bell.....\$53.63
 March 9, 1931—11 PALOMAR CT, Redwood City. Superior Tile Products Co vs C F Magne et al.....\$104.30
 March 4, 1931—BURLINGAME. San Mateo Planning Mill Co vs D F Valentine.....\$419.49
 March 5, 1931—LOT 34 BLK 60, Belmont. R N Nanson & Co. vs Davenport Realty Co.....\$58.88

CESATION OF LABOR

SAN MATEO COUNTY

March 5, 1931—LOT 8 BLK 14, Milbrae Villa Tract, San Mateo. J H Dore to whom it may concern

BUILDING CONTRACTS

SANTA CLARA COUNTY

RESIDENCE
 LOTS 13 AND 14, Nelson Manor Trct., Mt. View. All work for two-story frame residence.
 Owner—George Frederick and Eina Jane Beardslee.
 Architect—Edwin Reichel, 303 University Ave., Palo Alto.
 Contractor — The Minton Co., 243 Hamilton Ave., Palo Alto.
 Filed March 4, '31. Dated
 Foundations in\$2443.40
 Frame up 2443.40
 Plastering completed 2443.40
 Building completed 2443.40
 Usual 35 days 2443.40
 TOTAL COST, \$12,217.00
 Bond, \$6108.50. Sureties, W. D. Werrrell and L. D. McConnell. Limit, 100 working days from March 4, 1931.
 Forfeit, none. Plans and specifications filed.

LAUNDRY
 HOMER AVE., being Lot 53 and part Lot 56 Blk 9, Palo Alto. All work for one-story reinforced concrete laundry.
 Owner—Alfred F. Dalmon and Leopold Redoulay, 260 Homer Ave., Palo Alto.
 Architect—Erwin Reichel, 303 University Ave., Palo Alto.
 Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.
 On last day of each week

TOTAL COST, \$7200
 Bond, none. Limit, 55 working days.
 Forfeit, none. Plans and specifications filed.

BUILDING
 NE MAIN ST. AND SANTA CRUZ AVE., Los Gatos. All work for building.
 Owner—Bank of America National Trust & Savings Assn., Los Gatos Capital Co., 460 Montgomery St., San Francisco.
 Architect—Not Given.

Contractor—Jacks & Irvine, Inc., 74 New Montgomery St., S. F.
 Filed Feb. 27, '31. Dated Feb. 20, '31.
 As work progresses..... 75%
 Usual 35 days 25%
 TOTAL COST, \$48,218
 Bond, \$48,218. Surety, Central West Casualty Co. Limit, on or before July 1, 1931. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted
 Feb. 27, 1931—BEG. 313.50 FT W AND 150 ft. S of SW Hamilton and Ashby Aves S 159.90 ft by W 55 ft. Pt. Lot 15, Ashby Addn and pt. Boyce and Ashby Tracts. Also beg 263.5 ft. W and 150 ft. S of Boyce and Ashby and Hamilton Aves W 50 and S 159.9 ft. Part Lots 15 and 16 Ashby Addition, Palo Alto. Jessie La Venture to whom it may concern.....Feb. 26, 1931
 Feb. 27, 1931—LOT 6 BLK 1, Cherry Land Tract. G Donatelli to whom it may concern. Feb. 27, 1931
 Feb. 27, 1931—LOT 13 BLK 3, Reubnd. of Seale Addition No. 3, Palo Alto. Andrew W Hoy to whom it may concern.....Feb. 20, 1931
 Feb. 27, 1931—SW CHESTNUT AND Hamlin Sts., San Jose. M V Hevrin to whom it may concern

Feb. 27, 1931
 Feb. 28, 1931—LOT 4 BLK 2, Hevrin Sub., San Jose. Elmer F Hall to whom it may concern.....Feb. 28, 1931
 March 2, 1931—LOT 30 BLK 2, Rose Lawn, San Jose. Onisfor Savchenko to whom it may concern.....Feb. 27, 1931
 March 2, 1931—SE PINE AND SW Newport Ave., San Jose. R F Gardner to whom it may concern.....March 2, 1931
 March 2, 1931—LOT 12 BLK 1, Lincoln Gates, San Jose. Emma T Bennett to whom it may concern.....March 1, 1931
 March 3, 1931—LOT 15, Juanita Park. Alast H Wilson to whom it may concern.....Feb. 28, 1931
 March 3, 1931—LOT 48, Colonial Manor. William H O'Neil to whom it may concern.....March 3, 1931
 March 3, 1931—LOT 55, Barron Park L C Max to whom it may concern.....Feb. 15, 1931
 March 4, 1931—LOT 26, Rosedale. Edward J Faltersack to whom it may concern.....March 4, 1931
 March 4, 1931—LOT 26, Rosedale. Edward J Faltersack to whom it may concern.....March 4, 1931
 March 5, 1931—LOT 46, Barron Park C F Singer to whom it may concern.....March 4, 1931
 March 5, 1931—LOT 25 BLK 4, J. B. Randolphs Addn. Supreme Grand Lodge of Amor, Inc to whom it may concern.....March 4, 1931
 March 6, 1931—LOT 18 BLK 8, Restwood Park No. 2. George D McCrary et al to whom it may concern.....March 5, 1931
 Feb. 17, 1931—LOT 3 BLK 9, Sunnyvale Addition No. 2, Palo Alto. Lorenzo Dell-Aquila to whom it may concern.....Feb. 15, 1931
 Feb. 18, 1931—NO. 260 N-THIRD St., San Jose. George S Jones et al to whom it may concern.....Feb. 16, 1931
 Feb. 20, 1931—LOT 40, Santana Subd. Thomas W Carroll et al to whom it may concern.....Feb. 20, 1931
 Feb. 20, 1931—NE FOURTEENTH St. and SE line Lot 12, Naglee Park Addition, San Jose. George Boland Eckhart et al to whom it may concern.....Feb. 19, 1931
 Feb. 21, 1931—SW 70 FT. LOTS U, V & W, High School Park. Morgan Hill. Millard P Hale to whom it may concern.....Feb. 20, 1931
 Feb. 21, 1931—LOT 21 BLK 13, S. R. A., Sherman Tract, San Jose. Leo Charles Hinman to whom it may concern.....Feb. 20, 1931
 Feb. 21, 1931—SW 70 FT. LOTS U, V & W, High School Park. Morgan Hill. Millard P Hale to whom it may concern.....Feb. 21, 1931
 Feb. 21, 1931—LOT 2 BLK B, Kenold Tract, San Jose. Ira Brotzman to whom it may concern. Feb. 21, 1931
 Feb. 21, 1931—LOT 4 BLK 1, Restwood Tract, San Jose. Ira Brotzman to whom it may concern.....Feb. 21, 1931
 Feb. 24, 1931—LOTS 9 AND 10 BLK 35, College Terrace, Palo Alto. C G Shambaugh to whom it may concern.....Feb. 23, 1931
 Feb. 25, 1931—LOT 1, Paul Survey No. 476-430 California Ave, Palo Alto. Howard J and Opal E Canine to whom it may concern.....Feb. 10, 1931
 Feb. 25, 1931—LOT 20 BLK 2, Restwood Tract, San Jose. Ira Brotzman to whom it may concern.....Feb. 18, 1931
 Feb. 25, 1931—LOT 19 BLK 2, Restwood Park No. 2, San Jose. L Dougherty to whom it may concern.....Feb. 25, 1931
 Feb. 26, 1931—LOT 4 BLK 1, Beach's Addn., San Jose. S E Minnick to whom it may concern.....Feb. 21, 1931
 Feb. 26, 1931—LOT 15, Thomson Tract of Chapman and Davis Addn San Jose. Lenna and A Derrick to whom it may concern.....Feb. 26, '31

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
 Feb. 28, 1931—LOT 22 BLK 2, Restwood Park No. 2. William J Oakley vs Andrew J Ogg.....\$52
 arch 5, 1931—LOT 28 BLK 124, Crescent Park No. 3, Palo Alto, Hindevadit & Petersen vs George H Augustine.....\$146
 arch 6, 1931—LOT 22 BLK 2, Restwood Park No. 2. California Planing Mill Co vs Andrew J Ogg.....\$90.50
 b. 17, 1931—LOT 2 BLK 141, Embarcadero Oaks, Palo Alto. Lloyd Linbury vs Edna K and Elmer M Lenzen.....\$314
 b. 17, 1931—LOTS 4, 5 AND 6, Boulevard Tract. Bochers Bros vs Clarence P Fonseca et al.....\$70.63
 b. 19, 1931—LOT 28 BLK 124, Crescent Park No. 3, Palo Alto. A C Whitson vs George H Augustine.....\$65
 b. 25, 1931—LOT 94, Los Alamos Acres. West Bay Lumber Co vs Sidney Beldin.....\$225.24
 b. 26, 1931—LOT 94, Los Alamos Acres. Peninsula Building Material Co vs S A Beldin.....\$70.66

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
 Feb. 21, 1931—NO. 296 S-THIRD ST. San Jose. Henry Cowell Lime & Cement Co to Bernice R Harmeling.....\$8.64
 Feb. 21, 1931—LOT 5, Mayflower Park. Henry Cowell Lime & Cement Co to A Azevedo.....\$20.63

BUILDING PERMITS

REDWOOD CITY

WELLING, frame, 4-room, bath and garage, \$2000; No. 1168 King St., Redwood City; owner, Elmer Johnson; contractor, H. E. Soderstrom, 818 Head St., San Francisco.
 WELLING, frame, 5-room, bath and garage, \$3000; No. 367 Encina Ave., Redwood City; owner, A. Elliott; contractor, E. G. Steneger
 WELLING, frame, 5-room and bath, \$3000; No. 936 Iris St., Redwood City; owner and contractor, E. J. Carr, 1026 Iris St., Redwood City.
 WELLING, frame, 6-room, bath and garage, \$4000; No. 344 Fulton St., Redwood City; owner and contractor, I. M. Canvin, 4 Vera Ct., Redwood City
 WELLING, frame, 5-room, bath and garage, \$3000; No. 557 Jefferson St., Redwood City; owner and contractor, E. Standquist, 229 Iris St., Redwood City.
 WELLING, frame, 5-room and bath, \$3000; No. 936 Iris St., Redwood City; owner and contractor, E. J. Carr, 1026 Iris St., Redwood City.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
 March 2, 1931 -- LOT 17 BLK 5, Maple Park Addition No. 2, Sausalitas. Wallace L Richmond to Wallace L Richmond March 2, 1931
 March 2, 1931—LOT 19, Sherwood Park Subdivn Rancho El Saual, Monterey County. T S and Georgia M Lyons to T S and Georgia M Lyons.....Feb. 28, 1931
 March 4, 1931—LOTS 10 AND 12 Blk 103, Third Addn to Pacific Grove Retreat. C D and Esther J Zumwalt to whom it may concern.....March 4, 1931

March 5, 1931—LOTS 4 AND 5 BLK 146, Fourth Addn to Pacific Grove. Chester J Raymond to whom it may concern.....March 2, 1931

BUILDING PERMITS

PALO ALTO

INTERIOR alterations, \$1000; No 610 Melville Ave., Palo Alto; owner, Mrs. E. Black, Premises; contractor, Black & Campbell.
 STORE and office building, Class C, \$16,000; No. 2499 El Camino West, vs C F Vail; owner, E. A. Worth, 1024 Ramona St., Palo Alto; contractor, Geo. B. Moore, 531 Stanford St., Palo Alto.

LIENS FILED

MONTEREY COUNTY

Recorded Amount
 March 2, 1931—LOT 52, Map Clark City, Monterey County. Southern Pacific Milling Co of Soledad vs C F Vail.....\$179.87
 March 2, 1931—LOT 32 BLK 2, Map 2, Lakeside Tract, Monterey C J Lee vs Charles and Wendia C Williams.....\$
 March 2, 1931—LOT 32 BLK 2, Map 2, Lakeside Tract. Tynan Lumber Co vs A Turano, Charles and Wendia C Williams.....\$39.72
 March 2, 1931—LOT 32 BLK 2, Map No. 2, Lakeside Tract. F B Grautham, \$318.95; W G O'Bryan, \$30; Grant Towle and Mattie L Wright \$225 vs Charles and Wendia C Williams.....\$
 March 3, 1931—LOT 32 BLK 2, Map 2, Lakeside Tract. C L Frost, vs Charles Williams.....\$45

BUILDING PERMITS

STOCKTON

RESIDENCE and garage, \$4622; No. 1711 W-Vulcan St., Stockton; owner, A. C. Salini, 115 E-Adams St., Stockton; contractor, F. Paul Dobson, 1150 W-Harding Way, Stockton.
 RESIDENCE and garage, 11,300; No. 950 Oxford Way, Stockton; owner, Peter Marengo Jr., 232 Central Ct., Stockton; contractor, Frank Guyon, 1211 E- Main St., Stockton.
 SERVICE station, \$2000; No. 348 E-Miner Ave., Stockton; owner, Fred W. Rothenbush, 1624 N-Hunter St., Stockton; contractor, C. A. Towne, 526 E-Main St., Stockton.

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
 March 9, 1930 -- SAN ANSELMO. Raymond C. Buell to Young & Horstmeier to whom it may concern.....March 5, 1931
 March 9, 1931—NEAR FAIRFAX Meadow Club of Tamalpais to Frank H Allen.....March 6, 1931
 March 9, 1931 -- SAN ANSELMO. Harold E Squire to whom it may concern.....March 9, 1931
 March 3, 1931—ROSS. E J Schmiedel Jr. to whom it may concern.....Feb. 25, 1931

LIENS FILED

MARIN COUNTY

Recorded Accepted
 March 5, 1931—SAUSALITO. Marin Lumber & Supply Co vs Italian American Motors Inc.....\$37.55
 March 5, 1931—SAUSALITO. James

H McFarland, et al (Paramount Concrete Co) vs Italian American Motors Co et al.....\$2659

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 March 5, 1931—LOT 14 BLK 2, Riverside Terrace No. 1. B Ordway to whom it may concern.....March 4, 1931

RELEASE OF LIENS

SONOMA COUNTY

Recorded Amount
 March 4, 1931—PTN LOTS 11 AND 12 Blk 1, Map of Merian Addition to Santa Rosa. H E Huntington to Jay and Amy McC Bower.....\$127.55
 March 7, 1931—PART BLK E Huntington's Addn to Santa Rosa. E W White Lumber Co to Martin D Eberwein and Bank of America etc.....\$621.29

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 March 2, 1931—LOTS 23 AND 25 Blk A, New Richmond Addition. Standard Plumbing & Heating Co vs John Ambrosio.....\$509.40

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
 March 3, 1931—HUNTER & MINER Ave., Stockton. Associated Oil Co to J A Allen.....March 4, 1931
 March 6, 1931—LOTS 1, 2 AND 3 Blk 7, City Park Gardens. Buss William Anderson to F P Dobson.....March 5, 1931

BUILDING PERMITS

SACRAMENTO

DWELLING and garage, \$5700; No. 824 47th St., Sacramento; owner, Jos. Pedrone, 914 S St., Sacramento.
 RESIDENCE and garage, \$7000; No. 2759 12th St., Sacramento; owner, Max Miller, 817 7th Ave., Sacramento; contractor, J. W. Hoopes 5140 14th Ave., Sacramento.
 GARAGE, \$3000; No. 1203 Q St., Sacramento; owner, Senf Dra. Co., 501 I St., Sacramento; contractor, M. R. Peterson.
 DWELLING and garage, \$6500; No. 1133 Marian Ave., Sacramento; owner and contractor, Land Drive Terrace, 1100 Robertson St., Sacramento.
 ADD bath room, \$1600; No. 2420 W St., Sacramento; owner, E. D. Waldron, Premises; contractor, G. O. Griffith.
 DWELLING and garage, \$5000; No. 1324 37th St., Sacramento; owner, Mrs. Ruark, 1316 37th St., Sacramento; contractor, Carl Fiedler, 2631 30th St., Sacramento.
 HOUSE and garage, \$4000; No. 1323 57th St., Sacramento; owner, Fred Banducci, 1301 57th St., Sacramento; contractor, Frank Sarmiento, 2030 24th St., Sacramento.
 SLEEPING rooms, \$1500; No. 4501 H St., Sacramento; owner, K. W. Oehler, Premises; contractor, R. L. Hathaway, 720 Redwood Ave., Sacramento.
 DWELLING and garage, \$6800; No. 833 45th St., Sacramento; owner, H. J. Mueller, 2624 16th St., Sac-

ramento; owner, P. R. Opdyke, 1506 F St., Sacramento.
 SERVICE station, 6700; No. 1000 I St., Sacramento; owner, Standard Oil Co., 225 Bush St., San Francisco.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
 March 5, 1931—ISLETON. Southern Pacific Co to whom it may concern. Feb. 25, 1931

BUILDING PERMITS

FRESNO

DWELLING and garage, \$3900; No. 312 Olive Ave., Fresno; owner and contractor, Taylor-Wheeler, Inc., Power Co. Bldg., Fresno.
 ALTERATIONS and additions, \$1400; Kern and Van Ness Ave., Fresno; owner, Wesley Garage, Premises; contractor, Curtis Hess.
 DWELLING and garage, \$3060; No. 3767 Platt Ave., Fresno; owner, A. Cruzan, 4120 Platt Ave., Fresno contractor, A. F. Lambert, 1576 Poplar St., Fresno.
 DWELLING and garage, \$3950; No. 1050 Vassar Ave., Fresno; owner, Geo. Lehman, 371 North First St. Fresno; contractor, Valley Constr. Co., Bank of Italy Bldg., Fresno
 DWELLING and garage, \$7950; No. 466 Terrace Ave., Fresno; owner, Taylor-Wheeler, Inc., Power Co. Bldg., Fresno.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 March 3, 1931—G AND EL DORADO Sts. (S. P. Reservation), Fresno. Producers & Growers of Central Calif. to C J McIntyre. Feb. 27, 1931
 March 3, 1931—LOTS 7 AND 8 BLK 4, Fresno Heights. P A C Williams to whom it may concern. March 2, 1931
 March 5, 1931—LOTS 9 AND 10, Lonesomehurst. Taylor-Wheeler Inc to whom it may concern. March 4, 1931

OFFICIAL PROPOSALS

STATE OF CALIFORNIA

**DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS**

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the State Highway Engineer, Public Works Building, Sacramento, California, until 2 o'clock P. M. on April 1, 1931, at which time they will be publicly opened and read, for construction in accordance with the specifications therefor to which special reference is made, of portions of State Highway, as follows:

Placer County, a bridge across Auburn Ravine about one-half mile west of Auburn (III-Pla-17-B), consisting of six 19'0" timber spans and one 40' 0" steel beam span on timber frame bents with concrete footings.

Santa Clara County, a reinforced concrete girder bridge across Carnadero Creek, about 1.7 miles south of Gilroy (IV-SCL-2-C), consisting of four 35-foot spans on concrete pile bents and concrete abutments, and approximately 0.35 mile of roadway approaches to be graded and paved with Portland cement concrete.

Santa Cruz County, between Waterman Switch-back and Saratoga Gap (IV-CSR-42-A), a total of about six and five-tenths (6.5) miles in length, three and five-tenths (3.5) miles to be graded and surfaced with crusher run base and the entire length to be paved with bituminous macadam.

Santa Barbara County, between Wigmore and Los Alamos (V-S-B-2-C), about three and seven-tenths (3.7) miles in length, to be graded and paved with Portland cement concrete.

Merced County, a steel stringer overhead crossing over the tracks of The Atchison Topeka and Santa Fe Railway about 2 1/2 miles east of Merced (VI-Mer-18-A), consisting of thirty-one 40'-0" spans with reinforced concrete deck on steel pile bents and steel frame bents on concrete footings with timber pile foundations and approaches to be graded and paved with Portland cement concrete.

San Diego County, at Bostonia (VII-S-D-12-C), about one and five-tenths (1.5) miles in length to be graded and paved with Portland cement concrete.

Proposal forms will be issued only to those Contractors who have furnished a verified statement of experience and financial condition in accordance with the provisions of Chapter 644, Statutes of 1929, and whose statements so furnished are satisfactory to the Department of Public Works Bids will not be accepted from a Contractor to whom a proposal form has not been issued by the Department of Public Works.

Plans may be seen, and forms of proposal, bonds, contract and specifications may be obtained at the said office and they may be seen at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated. The District Engineers' offices are located at Eureka, Redding, Sacramento, San Francisco, San Luis Obispo, Fresno, Los Angeles, San Bernardino and Bishop.

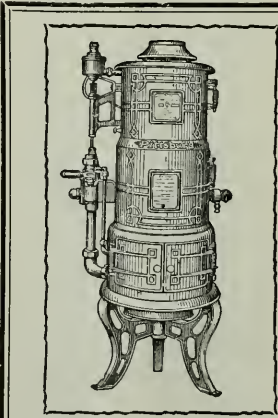
A representative from the district office will be available to accompany prospective bidders for an inspection of the work herein contemplated, and Contractors are urged to investigate the location, character and quantity of work to be done, with a representative of the Division of Highways. It is requested that arrangements for joint field inspection be made as far in advance as possible. Detailed information concerning the proposed work may be obtained from the district office.

No bid will be received unless it is made on a blank form furnished by the State Highway Engineer. The special attention of prospective bidders is called to the "Proposal Requirements and Conditions" annexed to the blank form of proposal, for full directions as to bidding, etc.
 The Department of Public Works reserves the right to reject any or all bids or to accept the bid deemed to be the best interests of the State.
**DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS.
 C. H. PURCELL,
 State Highway Engineer**
 Dated March 4, 1931.

**ALAMEDA CITY
 MANAGER TO QUIT**

Following closely on the heels of the election of Otto Leydecker and William F. Murray as members of the Alameda city council, Clifton E. Hickok, for ten years city manager in that city, announced yesterday he would tender his resignation next Tuesday.

Hickok has been opposed, it was said, by the minority members of the city council, William H. Henning and Emil M. Broderson, the new members giving them majority control.
 The resignation, Hickok said, will be effective April 1. He was appointed in 1921 following the resignation of Charles E. Hughes.



A "Pittsburg" Automatic Water Heater installed in the Home indicates high quality throughout.

Recommended and specified by all the leading architects, plumbers and builders.

Consider the high merit of the Pittsburg coupled with "Pittsburg Perfect Service."

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Makers of "Pittsburg Automatic"—"Bungalow Automatic" Storage Systems and "Lyon" Tank Water Heaters.

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BUILDING *and* ENGINEERING NEWS

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OAKLAND
BUILDERS'
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Glencort 7400

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LIEN LAW CHANGE ENDORSED BY A.G.C.

Assembly Bill 1104, amending the California Mechanics' Lien Law, was officially endorsed at the regular monthly meeting of the Alameda County Chapter, Associated General Contractors of America, last week, following a report on the measure submitted by the Legislative Committee of the Chapter of which Thos. Furlong is chairman.

Some doubts as to passage of the bill were expressed as it is feared the building and loan companies, mortgage companies, banks, etc., are almost certain to oppose it owing to the provision that liens would come ahead of any mortgage unless a bond is filed.

The proposed amendments to the Contractors' License Law were all unanimously approved particularly AB 1867, which is now being pushed thru the State Legislature as rapidly as possible. It particularly covers the new fee of \$10 and provides for proper qualification of applicants before a license is issued. If this bill is passed promptly it will take effect before the time for issuing of the new licenses. The A. G. C. legislative representative, F. O. Booe, in Sacramento, reports the bill has now passed its second reading.

SE 26, providing for the highest prevailing scale of wages on all state and public work was reported as a wage standardizing measure much needed. The Labor and Industrial Relations Committee, through its chairman, H. J. Christensen, recommended its passage with certain changes in the wording along the lines originally proposed by the A. G. C. for the Davis-Bacon Bill, recently passed by Congress at Washington. The National Bill also covered the question of wages on U. S. construction.

W. G. Thornally, chairman of the Credit Stabilization Committee, reported all but two of the East Bay material dealers had replied favorably on the proposition of not selling jobs with mortgages. A favorable answer is expected from the other two. A definite credit setup with a proper clearing bureau is the aim of the committee. "Stop the losses and the profits will take care of themselves," is the slogan of the committee.

In closing the meeting President W. E. Lyons urged all the members to be prepared to take a fast trip to Sacramento on behalf of bills favorable to adverse measures.

The consumption of scrap iron and steel in the United States during 1929 was 26,263,501 tons, costing approximately half a billion dollars, it is announced by the census of manufacturers of the Department of Commerce today, in a special report prepared at the request of the Institute of Scrap Iron and Steel. The steel industry and other manufacturers used, in addition to this tonnage of scrap, in making steel products, 41,146,552 tons of pig iron costing approximately \$672,000,000.

CALAMITY HOWLER VISITS SACRAMENTO

Jens C. Petersen, Sacramento architect and engineer, acknowledges a burning sensation brought about by the constant visits to his office of individuals who aim to further the interests of the firm of Business D. Pression.

"Who burns me up?" asks Mr. Petersen. "The fellow who comes into my office just before lunch and says:"

"How's business. Well I'm glad to hear you say that because you're the only architect I've heard say that he had anything on the boards or ready for bids; I just came from Morgan's office and he hasn't got a thing to do, neither has Stacey or Higgins and they told me they intended to lay off some of their best draftsmen who have been with them for years. I just came in from Coddington and Spruceburg and there isn't anything doing in those two towns; I did have a chance to sell Mr. Promotor a car load of rat proofing for the Pabts Blue Ribbon building but I heard he took the job at cost just to keep his organization intact and I was afraid my house wouldn't take the order, he has always paid his accounts right on the dot, but during these times you never can tell what these optimistic fellows might do next so I didn't go near him. I understand none of the architects are even making any sketches or—"

"But just then," says Mr. Petersen, "my phone rang and I tried to answer it with a smile while Mr. Salesman looks at me in a dubious way as I said, 'Yes I'll be in at one o'clock.' And he says: 'You're not interested in any of our line are you,' and I cheer up long enough to say 'no, not now' and go back to my drafting table to find there is no lead in my pencil."

Record Bond Premium On Hoover Dam Project

The largest surety bond premium in the history of the world—\$825,000—has been paid to twenty-two American companies by the Six Companies, Inc., San Francisco syndicate, which will build Boulder Dam.

The premium was paid for a \$5,000,000 "performance bond," posted by the Six Companies to guarantee completion of its contract.

The bond guarantees that the contract will be finished within a 6½-year period, under penalty of \$3,000 a day for delay; guarantees payment of all labor and material bills, and insures the Government against paying more than the \$48,899,000, which was the syndicate's bid.

Heading the list of the surety companies which wrote the \$5,000,000 bond are the National Surety Company and the Fidelity & Deposit Company.

HIGHWAY BRIDGE DESIGN COMPETITION CLOSES ON APRIL 1

Several hundred students of engineering and architecture in colleges throughout the United States and Canada are participating in a competition sponsored by the American Institute of Steel Construction for the aesthetic design of a highway bridge. The Institute announces that the preliminary judging will be held on April 2, the jury consisting of a group of nationally known engineers and architects. On this jury are:

Dr. Ralph Modjeski, consulting engineer; Dr. Shortridge Hardesty, consulting engineer; H. H. Murdock, architect, of the firm of Jardine, Hill & Murdock; Clinton Mackenzie, architect, an officer of the Beaux-Arts Institute of design; F. E. Schmitt, editor of Engineering News-Record.

At the preliminary judgment on April 2 the ten best designs by engineering students and the ten best designs by architectural students will be selected. These will be asked to make a finished rendering of their design to be submitted in the final judgment on May 1. At that time the same jury will select the first, second and third best among the engineering and the same among the architectural students. The prizes are first, \$500; second, \$250; and third, \$100.

Preliminary designs can be submitted at any time up to April 1, addressing the American Institute of Steel Construction, 200 Madison Ave., New York.

MONEY AVAILABLE FOR CONSTRUCTION

Ziegler Investment Corporation, Ltd. of Los Angeles, announces that it now has available \$1,000,000 monthly as loans on new construction, including homes, duplexes, flats, apartments, stores, markets and other buildings. The following statement has been issued by the company:

"So satisfied are we and our sources of funds that materials have reached bottom that we have been able to obtain an interest reduction to 6 per cent from our sources of funds for second mortgage construction money.

"It is hard to conceive that owners of a vacant property or of property which has outgrown its usefulness by reason of antiquated improvements will idly stand by instead of taking advantage of first, the present low interest rates. Secondly, the low construction costs, which in themselves should show a substantial increase in resources if it be nothing more than the natural increase in reproduction costs which are bound to come. And last, but not least, the fact that every new construction job means work for from one to one hundred men and women and with more of our populace employed, the return of normal conditions will be speeded up by just that much."

OREGON STATE PASSES PREQUALIFICATION MEASURE

Governor Meier of Oregon has signed the bill providing for prequalification of bidders on public works construction. The bill is similar to that in effect in California. The full text of the measure is published herewith:

For an act providing for the prequalification of bidders on public work, defining certain terms used therein, prescribing right and mode of appeal, providing for limiting public improvements to be awarded to a single bidder.

Be it enacted by the people of the State of Oregon:

Section 1. The word "person" as used in this act shall mean and include any and every individual, co-partnership, association, corporation or joint stock company, and any and every lessee, trustee or receiver appointed by any court whatsoever.

The word "public officer" shall include any and every public officer, commission, board, committee, department or other public representative of the State of Oregon or of any county, city, town, district or other public body charged by law with the duty of either receiving bids for or awarding contracts for the construction of any public improvements.

The term "public improvement" as used in this act shall mean an improvement upon any real estate belonging to or in any wise to be used by the state of Oregon or any county, city, town, district or other municipal subdivision of the state of Oregon.

The term "public contract" as used in this act means any contract for public improvements, proposals for the construction of which are required to be advertised for by law.

The term "form for bid proposals" as used in this act shall mean that printed, typewritten or written form which is officially sanctioned by the public officer for the submission of bids for a public improvement under public contract.

The term "prospective bidder" as used in this act shall mean any and every person who makes an application for any plans for any public improvements for the purpose of bidding on such work.

Wherever in this act the singular of any word, term or expression is used it shall be construed also to include equally where applicable to the plural thereof.

Section 2. For all contracts for public improvement estimated at a total cost of \$10,000 or over, by the state or by any county, city, town, district, board or other public body, every public officer charged with the duty of receiving bids for and of awarding any public contract shall, before delivering any form for bid proposals pertaining thereto to any person, require such person to submit a full and complete statement sworn to before an officer authorized by law to administer oaths, of financial ability, equipment, experience in construction of public improvements, and of such other matters as such public officer may require for determination for the benefit of the public in the performance of any such contemplated public improvement; and such statement, with any subsequent amendments thereof, shall be in writing on a standard form of questionnaire as adopted for use by the public officer, to be furnished by such

public officer and shall be filed with such public officer not later than 10 days prior to the time set for opening bids, which statement shall not be disclosed except as used in order of such person or persons furnishing the same, or an appropriate order of a court of competent jurisdiction. No bid shall be received from any person who has not submitted the sworn statement as above required; "provided, that any prospective bidder who has once qualified to the satisfaction of the public officer and who wishes to become a bidder on subsequent public improvements under the jurisdiction of the public officer to whose satisfaction the prospective bidder has qualified under the provisions of this act, need not separately qualify for each public contract for public improvement unless required so to do by the public officer."

Section 3. The public officer in charge of letting any public contract for any public improvement shall, at least eight days prior to the time set for opening bids, examine all said statements so submitted and shall make such investigation by personal interview with the prospective bidders or in such other manner as in the discretion of such public officer appears necessary, and shall at that time notify each such person submitting such statement, by registered mail at the address within this state designated by such person in such statement, whether or not such person is qualified for the public improvement required and whether or not a bid will be received from such person.

Any disqualified prospective bidder may, within 24 hours after delivery of such notice at such address, notify such public officer in writing or by telegraph that such person desires to appeal from the findings of such public officer with respect to his disqualification.

Immediately on receipt of such notice it shall be the duty of such public officer to notify the board of appeals hereby constituted and which shall consist of the state treasurer, secretary of state and state labor commissioner if the public work contemplated be state work; but of the public work be by a county, city, town, district or other municipality the appeal board shall consist of a circuit judge of the district, the county treasurer and the county sheriff of the county in which the proposed public work is to be done. In cities with a population of over 100,000 an appeal from the decision of the public officer in connection with qualifications for bidding on improvements to be made by such city shall be referred to an appeal board no disqualifier of the city attorney, city auditor, and the city treasurer. It is hereby made the duty of the officials constituting such appeal boards to forthwith discharge the duties hereby imposed upon them. The absence of any member of such appeal board shall not disqualify the other two members from passing upon the matters submitted to them. Such board of appeals shall forthwith, and at least three days prior to the day set for opening bids for such public improvement, hold a hearing on such appeal. Such appeal shall place at issue before such board anew the responsibility and qualifications of all persons who have filed such statements. At such hearing any prospective bidder who has filed a statement

shall be entitled to be heard and submit any additional information to such board upon the matters and subjects covered by such sworn statement. Thereafter such board shall review the matter of the responsibility of all the disqualified prospective bidders who have filed statements, considering both the statements and the additional information given at such hearing, and shall prepare and certify to such public officer a list of those of the disqualified prospective bidders who are found qualified to perform the work by such board or a majority thereof, which determination shall be final.

Such board of appeals shall immediately notify all disqualified prospective bidders of the action of such board, by registered mail as aforesaid. Bids shall be received only from such persons as have been qualified by the public officer or by the appeal board; provided, that the provisions of this section shall not apply to prospective bidders who previously have qualified to the satisfaction of the public officer, under the provisions of this act; provided further, that should a prospective bidder apply for a bid proposal within five days prior to the time set for opening bids, such prospective bidder may still be being furnished with a bid proposal blank, be required to qualify under the provisions of this act, to the satisfaction of the public officer, and in such case the decision of the public officer with respect to the qualifications of such prospective bidder shall be final.

Section 4. When any person shall be low bidder on two or more public contracts for the construction of any public improvements, none of which public contracts has been awarded, and such person, in the opinion of any public officer charged with the duty of awarding such contracts, is not qualified to undertake and to perform fully in a satisfactory manner the public improvements contemplated under all such public contracts bid upon by such person, such public officer may award to such person one or more of such contracts and may reject such persons bid or bids for the other public improvements for which such person was low bidder.

Section 5. The provisions of this act shall not apply to any work which may be deemed by the public officer as an emergency.

GENERAL PAINT REPORTS DEFICIT

General Paint Corporation's consolidated income statement, including subsidiaries, shows a loss of \$20,000 for the eleven months ended on November 30, 1920, President C. H. Jones reports.

Net sales aggregated \$4,969,909, a decline of 25.3 per cent, and loss from operations amounted to \$151,438 before charging depreciation and maintenance.

Net current assets were equal to \$19.23 per share for all "A" stock outstanding and total net assets amounted to \$46.55 per share for the "A" stock.

Total assets as of November 30, 1920, were \$4,534,991, of which \$2,299,325 were current, against \$753,477 per current liabilities, a current position of 3 to 1.

BOULDER CITY—CENTER OF HOOVER DAM OPERATIONS—WILL BE MODEL TOWN TO HOUSE WORKERS

NEWSPAPER PROVES MODERNIZING VALUE

"The building of Hoover Dam," says Elwood Bead, Commissioner of Reclamation, "has weather conditions to meet that are reminiscent of Panama. Fortunately, however, they are comparable from the standpoint of comfort only, and present no health problems. Boulder City, the model town which has been laid out as a home for workers, will, in fact, stand near the top of the list as a health resort."

"But in the summer the gorges and high slopes separate the gorge from the desert," Commissioner Bead continues, "feels like a blast from a furnace. How to overcome this and provide for the health of workers has had much attention. At the rim of the gorge, where much of the work must be done, there is neither soil, grass, nor trees. The sun beats down on a broken surface of lava rocks. At midday they cannot be touched with a naked hand. It is bad enough as a place for men at work. It is no place for a boarding house or a sleeping porch."

"Comfortable living conditions had to be found elsewhere, and these are found on the summit of the Divide, two miles from the dam. Here there is fertile soil; here winds have an unimpeded sweep from every direction; here there is also an inspiring view of deserts and lonely acres and lofty mountain peaks. When the dam is completed and a marvelous lake fills the foreground, the view from Boulder City will be so inspiring and wonderful as to be worth traveling around the world to see."

"The town planner of Boulder City is S. R. De Boer, who has a high reputation as a city planner in the mid-west. The houses and offices of the bureau staff have been designed by a Southern California architect and will follow the general lines of those in the Panama Canal Zone."

"Generous provision has been made for lawns and trees for shade and windbreaks, but planning of these will have to wait for the spring of 1932. Water for irrigation cannot be provided early enough in 1931."

"In all, the bureau will spend \$2,000,000 creating comfortable living conditions for workers. None of the money will be wasted. It means health and vigor of workers. The specifications require contractors to house 80 per cent of their workers in the town. It will be administered much like the national parks; it will be entirely a Federal city with three commissioners, one of whom will be a representative of the contractor of the dam. "The residences and business purposes will be leased with rigid restrictions as to use. It will be a temperance town. The number of stores, shops and moving-picture theatres will be restricted; otherwise every business would be overdone. The money received from leases will help pay operating expenses."

"It is expected that about 3,000 people will have residence in Boulder City during the construction period. The size of the population after the dam and power plant are completed is not known, but it seems very likely that it will be a sizable tourist town. With a main transcontinental highway as projected from Kingman, Arizona, one the east, and crossing over the top of the dam, thousands of tourists will use this route on their way to the Pacific Coast."

"The Government will construct a town hall, school, garage, dormitory and guest house, auditorium, administration building, and 75 cottages for its employees, comprising five 6-room,

nineteen 3-room, twenty-six 1-room, and twenty-five 2-room cottages, also 50 small garages, a swimming pool and playground. About \$500,000 will be expended on these features."

"The administration of the town government will be in the hands of a commission of three, one of whom will probably be a representative of the contractor for the dam. A city manager will have direct charge under supervision of the commission, with United States deputy marshals appointed as police officers. All operation and maintenance of water, sewer and electric systems, streets, parks and other municipal works will be under the direction of the city manager. The duties of police judge will be taken care of by a United States commissioner and there will be a superintendent of public works with the usual city maintenance force."

"Due to the inaccessibility of the work, the magnitude of the operations, and the severe weather conditions during the hot summer months, and having in mind the best maintenance and general welfare of those engaged on the work, the town has been located at the 'summit' on a saddle of the divide between the river area and Las Vegas. The elevation is 2,900 feet, which is about 1,000 feet higher than the top of the canyon at the mouth."

"This summit has an average temperature of 4 degrees lower than that of any of the other sites under consideration. It is at the top of the divide with a rather steep descent to the north, and a uniform 3 per cent slope to the south, with hills both to the east and west. There is an unusually beautiful view to the north overlooking the proposed 145,000-acre reservoir four miles away. This lake will have an area 20 per cent larger than Lake Tahoe in California-Nevada."

"There will be no automobile parking allowed on streets, but provision will be made for parking on specially created open plazas in the downtown business blocks. In the business district the blocks have been provided with alleys, the interior part of which will be 40 feet in width, thus providing a loading and unloading space for trucks. Main through-arteries will be separate from business and residential streets. Street widths contemplated are as follows: Main highway 112 feet, roadway 56 feet, with possible extension to 76 feet; business streets 92 feet, roadway 56 feet; residential streets 60 feet, roadway 30 feet. All buildings in the town will be in harmony as to design. Different types of stores and business establishments will be given definite locations. Residential blocks have been placed in the more densely populated districts, as much as 900 feet, with an average width of about 260 feet. In the design of these residential blocks provision has been made for open plazas in the block interiors to provide small parks and playground facilities."

"With the creation of courts in the residential blocks, there will be a small playground in the interior of every block which can be equipped with apparatus for the small children and also croquet lawn and horseshoe pitching court for idler people. "With these playgrounds it will be necessary to have play facilities for small children in school grounds and parks, but the latter can be used rather for older boys and girls, young men and women, and be equipped with football and baseball fields, tennis courts, etc."

In cooperation with the Home Modernizing Bureau, the Tribune, of Minneapolis, Minn., in modernizing an old home, appraised at \$1,000 when the work began and now valued at about \$20,000. The owner has already been offered an \$11,000 first mortgage on the place before the completion of the remodeling. This investment in modernizing cost less than \$2,000.

The home in question is 37x45 feet. There are six rooms and a breakfast nook on the first floor, five bedrooms and two baths on the second, and an amusement room and maid's room on the third floor. The home will be thoroughly furnished and ready to live in when it is opened for a two-week demonstration period.

The architect, S. P. Pesek, has closely followed straight Colonial lines rather than the original Gothic design. A large porch extends from the front and replaced by a terrace of attractive design. Windows have been kept in practically the same position, but are now of modern lines and are shuttered. Knotty pine has been used in the library. This particular house was chosen because of its sturdy basic structure, although more than 20 years old. Its location in an old, but still desirable, residence section made it ideal for modernizing purposes.

The cost for making the exterior changes were:

Wrecking, tearing down and cleaning up	\$ 155	
Roof—		
Shingles	\$357.00	
Labor and materials	155.71	512.71
Sidewalk—		
Shingles	\$446.29	
Labor and materials	197.65	643.94
Millwork—		
Doors, windows and frames	\$248.00	
Hardware	15.85	
Lumber	93.80	
Stone terrace	158.63	
General labor	314.00	
		\$30.38
Painting trim	197.63	

Total cost of exterior.....\$2,267.24
The exterior contract is held by J. C. Nelson & Son, J. A. Edgcombe, president of the Edham Co., Inc., and a leader in home modernizing, who is directing the work, advises that, as this home is larger than the average home, the cost is greater than it would be in most cases. A nationwide survey reveals that it takes 14 squares of shingles to cover most homes, including the sidewalks. Thirty-four and one-half squares were used on this job—more than twice the usual amount.

TIN PRODUCERS SEEK NEW FIELDS

The tin industry seeks to expand into new fields as it finds its present industrial uses, largely in the automobile industry and tin plate manufacture, somewhat limited.

The Tin Producers' Association has been studying the production of a ternary-lead alloy to replace pure lead in water pipes. Metal bearings with a large tin content—of greater durability than ordinary lead bearings—are another possibility. New ways for applying tin's property of resistance to atmospheric and chemical corrosion are being sought. Studies are being made to improve tin coatings for steel plates, copper and apparatus used in the dairy and food industries. Studies are also under way to develop a successful method of tinning cast iron, long a problem to engineers.

THE OBSERVER

What He Hears and Sees on His Rounds

Every stock holder in a banking or business enterprise, every man conducting a business, and every superintendent, foreman, and worker, in an industrial plant will find much of value to him personally in the Westinghouse Salute to Machinery Builders, to be broadcast Sunday, April 26, at 9:45 P. M. Central Standard Time (10:45 P. M. Eastern Standard Time) over a group of 25 radio stations associated with the National Broadcasting Company.

The theme of this program, which is sponsored by the Westinghouse Electric & Manufacturing Company, will be based on one of the fundamentals of American Industrial Supremacy—the great steps which have been made, and are being made, in the use of machinery.

The great speaker, Carl A. Johnson, President of the National Association of Tool Builders, will have a message of interest to all connected with industry. Mr. Johnson and the voice of Westinghouse will tell what machinery has contributed to the age in which we live, and how efficient and constantly improved machinery is necessary to create and maintain American prosperity.

The Westinghouse Ensemble under the direction of Zoel Parenteau, will interpret the progress of the machine age in appropriate musical selections.

A county-wide move against further use of the Mattoon improvement act of 1925 was initiated at the last meeting of the San Mateo County Board of Supervisors when the matter of calling bids for construction of the \$126,000 South San Francisco-San Bruno-Lomita Park sewer system under the act, came up. Calling of bids was delayed until April 6 on the request of City Attorney Rudolph A. Rapsy of San Bruno, one of the attorneys of the district who explained that a more complete report was being prepared to submit to bankers for consideration. Bankers of San Bruno and South San Francisco has stated that they would not loan money on property burdened with Mattoon act bonds.

After the school board of Dallas, Texas, rejected all thirteen bids on the new Robert E. Lee school because the contractors included estimating the fees of \$1,650 in their proposals, the Eckert-Burton Construction Co. on the second call for bids resubmitted its original low bid less the amount of the fee and was awarded the contract. The original low bid was \$107,732, the re-submitted figure was \$106,042 and the contract price was \$105,082, on an alternate \$340 less than base bid price. Of the original thirteen bidders, but three firms submitted proposals the second time. The second set of bids contains the specific clause that the bidder had entered into no estimating fee agreement.

The average skilled wage rate in construction is \$1.36 1/2 per hour, compared with \$1.37 1/2 for February and \$1.33 in March, 1930, according to Engineering News-Record. The average rate for common laborers is \$3.71c., compared with \$4.28c. in February and 56.1c. in March, 1930. Manufacturing skilled rate is 65.7c. and that of the unskilled 48.6c. per hour.

It is far from true that U. S. Steel's unfilled orders of nearly four million tons is a very small backlog, as some observers are inclined to believe, says the Wall Street Journal. Only in one month since February, 1926, has unfilled tonnage exceeded 4,500,000 tons, and that was in March of last year, when it reached 4,570,000 tons. Throughout 1923 and 1929, when new high-iron production were being attained, unfilled tonnage ranged around 4,000,000.

City Council of Seattle will consider an ordinance to license contractors and sub-contractors at its March 23 meeting. It is provided in the proposed measure to require payment of a \$15 annual license fee to the city by contractors and sub-contractors who must give location of business and names of firm members. Proponents state the purpose of the bill is to protect building owners against "fly-by-night" contractors. Licenses may be revoked for infringement of regulations.

Senator Getchell's bill authorizing investigation of the financial standing of contractors taking over public works contracts made by the state engineer and making other changes in the law regulating such matters, has been passed by the Nevada State Assembly. Among its provisions is a section allowing the state engineer to make partial payment of contracts on the strength of preliminary progress reports at the end of each month.

Under the heading of "Progress" we report that the Monterey County Builders' Exchange seeks to promote good will in the construction industry and at the same time stimulate construction with a one full page advertisement each week in the Monterey Peninsula Herald.

The page features the usual business advertisements of exchange members and is centered with an editorial discussing reasons why one should "build," remodel or repair, NOW." Around the editorial are newsy items describing buildings in course of construction together with other items of interest to prospective builders.

That such advertising brings results, one may judge from the steady trend of the building business on the Monterey Peninsula. This applies particularly to homes, both of the modest and more expensive type.

A decree has been signed by President Vargas prohibiting, for three years, the importation of machinery for manufacturing purposes, according to Associated Press dispatches from Rio De Janeiro, Brazil. The action was taken because of conditions of over production believed by the government to exist in textile and allied industries. The decree demanded that an inventory of all machinery in Brazil be completed within sixty days.

House painters of Brooklyn, N. Y., are much perturbed over a new employment extension bill.

Painters propose to use brushes 3 inches wide, instead of 6. The Boas Painters Association of Long Island protests declaring that the change would double the number of painters needed and asks the Supreme Court to enjoin the union from calling

strikes when boss painters refuse to permit it.

Union officials say the small bribe is incidental to the controversy at that the boss painters are not abiding by a wage scale adopted some time ago.

The city council of Los Angeles last Thursday voted against skyscraper. Fourteen to one it denied a request of the Central Labor Council to submit to voters at the May 6 municipal election an amendment to the ordinance which now restricts building to 150 feet in height.

Preliminary to the adoption of new building code, the city council Stockton has passed to print an ordinance creating fire zones in that city. City Manager Walter B. Hogan, who recommended the action, said the National Board of Underwriters had declared the present building code antiquated and inadequate. Hogan stated the measure would affect new buildings primarily, but also repair. A proposed ordinance to regulate the installation of gas pipes and fixtures was referred to City Attorney J. LeRoy Johnson for legal check.

Basalt Rock Company of Napa has been authorized by the Sonoma County supervisors to locate a gravel plant on the Russian River near Healdsburg. The company will install a tramway to connect with the Northwestern Pacific Railroad. Construction and equipment will involve an expenditure of \$120,000, it is said.

The Calaveras Cement Company for the year ended December 1930, reported profit from operations after full deductions for depreciation and depletion, of \$295,525. Interest and miscellaneous income of \$29,191 produced a gross profit for the year of \$324,716. Net profit, after all expenses, including provision for Federal income tax, amounted to \$91,200 equivalent to \$4.04 a share of preferred stock.

Santa Clara County's "Manual Procedure for the Subdivision of Land," prepared by the county planning commission is now ready for distribution. The manual was prepared by Hugh Pomeroy, assisted by Michael A. Antonacci, city planning commission engineer. It was based on theoretically ideal set of rules prepared for the commission last year by Antonacci. The booklet contains: outline of procedure, time schedule for subdividers, copy of the subdivision ordinance, the state map act, check forms and sample maps.

The California Engineers' Registration Association, formed several years ago to secure enactment of a registration law, has elected the following officers: President, Porter H. Alburgh; vice-president, F. E. Trask; secretary William Hogeboom, all of Los Angeles. The association is giving its attention just now to legislative matters and is sending out letters to thousands of registered civil engineers in the state informing them concerning pending amendments to the registrative law contained in Assembly bills 61 and 616. The latter has been reported favorably by the assembly judicial committee. Headquarters of the association are at 544 I. W. Helms Bldg., Los Angeles.

The Stockton Builders' Exchange is not sponsoring the Builders' and Betters' Show to be held in the city April 17 to the 21. It is announced by L. S. Peletz, president of the exchange. The show, however, has received the endorsement of the Builders' Exchange.

TRADE LITERATURE

HERE—THERE EVERYWHERE

TRADE NOTES

American Bitumuls Co., 200 Bush St. San Francisco, Calif., has issued a series of bulletins on the use of its products in highway construction and reconstruction, entitled "Retread and Road-Mix with Bitumuls HRM." Titles of the two bulletins previously issued are "Paving and Reconstruction with Bitumuls H" and "Maintenance with Bitumuls H."

Bulletin 3012 of the General Excavator Co., Marion, Ohio, devotes twenty pages to explaining the characteristics and design features of the General Co. of power excavators.

In accordance with its annual census the Ric-Wil Co., Union Trust Bldg., Cleveland, Ohio, has issued a report tabulating steam and hot water heating rates in various cities of the United States for the season 1930-31.

Illustrated catalogs have been issued by the Bucyrus-Erie Co., South Milwaukee, Wis., on the model 43-B 12-cu. yd. shovel-dragline, clamshell-lifting crane, and the model 75-B 6-cu. yd. quarry, mining and general purpose shovel-dragline.

Brushing strengths, sizes and weights of cast-iron culvert pipe and instructions for designing installations are given in a 28-page illustrated booklet, "Highway Culverts," issued by the United States Pipe & Foundry Co., Burlington, N. J.

"Truscon," a graphic monthly devoted to construction, maintenance, and steel products which is sponsored by the Truscon Steel Co., Youngstown, Ohio, has made its first appearance in the form of a 16-page rotogravure bulletin devoted largely to a serial presentation of the company's products and the ways in which they are manufactured and used. Included are many items described as channels, plates and Insulmesh, two of the company's more recent developments.

Luminum Company of America, Eschburg, Pa., has prepared a motion picture showing the blasting into place of the obelisk at the Chute-a-con hydro-electric project in Canada. The film is of the standard 35-mm. size and requires from twelve to fifteen minutes to show. It will be loaned upon request.

Methods of using Plintkote asphalt emulsion in the construction of floors are discussed in considerable detail in recent publications issued by the Plintkote Co., Boston, Massachusetts.

Several major changes and a number of minor improvements and refinements in Wiley Whirlleys are detailed in a new catalog of the Dayton Whirley Co., Dayton, Ohio.

Design details of the new Case industrial tractors are described and illustrated in considerable detail in a large bulletin of the J. I. Case Co., Moline, Wis.

Troy Engine & Machine Co., Troy, N. Y., has published bulletins 602 and 603 covering, respectively, Engberg generators and steam engines.

Design data and details of construction of various types of roller bearings produced by the Orange Roller Bearing Co., Orange, N. J., are given in a revised catalog of that company.

Stating that never before in the history of the school district has the need for school improvements been more acute, the Board of Education of Los Angeles has issued an appeal to voters to approve the proposed \$12,720,000 in elementary and high school bonds at the polls on March 27.

A \$10,000,000 appropriation by the state of California to be used for the immediate relief of unemployment is demanded in a resolution presented at the 31st annual convention of the State Building Trades Council in Oakland.

Col. W. C. Bickford has been re-elected president of the Seattle Construction Council. H. L. Nelson was elected vice-president and C. J. O'Shea, secretary, and W. C. Dennis, treasurer.

Despite active competition from 4 Eastern manufacturers, A. Leitz Co. of San Francisco has been awarded two contracts for engineers' transits and engineers' levels amounting to \$11,000. Chief of engineers ordered 29 transits at cost of \$6859, and Bureau of Roads ordered 29 levels at cost of \$11,000.

Carmel, Monterey County is considering the adoption of a building ordinance. It is proposed to adopt the Santa Barbara code, revising certain sections to meet local conditions.

The Pine Bluff, Arkansas, Carpenters' Union has voted to take a reduction in wages from \$1.00 to 80 cents per hour.

The Ventilating Contractors are trying to induce architects and others to stop the practice of letting ventilating contracts through the steam-heating contractors, says the bulletin of the National Ass'n of Building Trades Employers. They are willing to be subs of the general contractor but not of any other sub trade.

Pittsburgh employers have adopted the "Stagger Plan." Mechanics will work on alternate weeks, preference being given to the former employees.

Painters in Chicago have requested a three-day week on the rotation plan, in order to give each man a share of the work. At the end of every third day a new crew is to report for duty, according to the plan.

Electrical Workers Union No. 595, Oakland, has adopted measures for extending aid to their unemployed members through an assessment levied on the working membership which will provide one day's pay each week to all unemployed members.

The request of bridge and structural ironworkers in Utah for the 5-day week and wage increase of \$1 per day, to \$10 a day, has been denied by organized contractors.

Bricklayers in Kansas City have requested an increase of \$1.33 per day, to \$13.33, and a five-day week. The increase is sought at the expiration of the present contract with the Builders' Association.

Details of construction and operation of the new type B pulverizer are described in detail and illustrated in bulletin 5-89 of the Fuller Lehigh Co., Fullerton, Pa.

Lloyd Hiscock has opened quarters at the Masonic Block at Nevada City, Calif., and will carry a complete line of General Electric supplies. He will also engage in the electrical contracting business.

Weber Showcase and Fixture Company, Inc., has acquired the American Woodworking Corp. of San Francisco, and Rogers Cabinet Manufacturing Company of Seattle. Present managements in both cities will be retained and facilities expanded. From Los Angeles headquarters word came the Seattle plant would be called Weber-Rogers Company and the San Francisco plant the Weber American Co.

M. Friedman and Co., paint manufacturers and distributors, have moved the Sacramento quarters from 1327 J Street to 1222 J Street, with Leo L. Metzner as manager. The company also maintains stores in Oakland, Alameda, Berkeley and Fruitvale. The plant is located in Oakland.

East Bay Lacquer Chemical Co. is operating at 7304 East 14th St., Oakland, manufacturing high grade lacquers, lacquer thinners, paint removers and brush cleaners. A. L. and Dan Burkholder are the owners.

Melbourne C. Routt of Fresno and Merle Bishop, recently in the lumber business in Watsonville and formerly of Fresno, have taken over the interests of the Routt family in the Routt Lumber Company and the Standard Planing Mill at 2011 Tyler Street, Fresno. Routt and Bishop, who was assistant manager of the firm for two years, announce they have put additional capital and assets into the company and will continue to operate the business which was established in Fresno nearly 20 years ago.

Frank Frane and Son, lumber dealers at Reedley, have sold their business to the Western Lumber Company and the Reedley Lumber Company. The sale included real estate holdings.

Raymond Concrete Pile Co. plans to establish a branch office at Portland, Oregon. George H. Tuley, Pacific Northwest district manager for the company, was a recent visitor to Portland in connection with the matter. Tuley maintains offices at Seattle.

MacArthur Concrete Pile Corp., New York City, has advanced Richard E. Talmadge, formerly secretary and general manager, to the post of vice-president and general manager. Irvin G. Morris has been elected treasurer. William M. Chadbourne and Morgan W. Jopling have been re-elected chairman of the board and president, respectively.

Two recent bulletins of the W. A. Riddell Co., Bucyrus, Ohio, illustrate and describe Warco wheeled scoops and a new line of rear-control power graders for use with McCormick-Deering, Fordson, Case or Allison-Chalmers industrial tractors.

Southwest Gas Corp., Ltd., with headquarters in Los Angeles, capitalized for \$1,000,000, has been incorporated. Directors are Louis R. Lackey, Chas. F. and William W. Stearns, M. A. Thompson and M. O. Jackson.

ALONG THE LINE

J. L. Stannard, 64, chief engineer of the Utilities Department of the city of Tacoma, Washington since 1922, and former assistant city engineer of Seattle, died in Glendale, Calif., last week.

Mr. Stannard was prominent in engineering circles and supervised the construction of Tacoma's \$10,000,000 hydro-electric plant at Lake Cushman and the new steam plant now being completed in that city. In 1907, Mr. Stannard was assistant city engineer of Seattle and in 1910 was consulting engineer for the City of Portland.

Alfred J. Cleary, consulting engineer, formerly connected with the city engineer's office and more recently engaged in private practice as an engineer, has been appointed executive secretary to Mayor Angelo Rossi. Cleary is a member of the American Society of Civil Engineers.

G. A. Graham, general contractor, president of the Ekersfield Builders' Exchange, has been elected a member of the Ekersfield Rotary Club.

Nielous Fruhauf, 72, retired contractor of Sacramento, died in Fresno last Monday at the home of his daughter, Mrs. Clara Evans. Fruhauf was a resident of the capitol city for more than thirty years.

SAN DIEGO TO ADOPT UNIFORM BUILDING CODE

The city council of San Diego has received the report of a special committee recommending adoption of the 1930 edition of the Uniform Building Code of the Pacific Coast Building Officials Conference, with some modifications. These provide that all architects, structural engineers and contractors operating in the city shall file their license numbers, dates, classifications and addresses with the building inspector, and no plans shall be received or permits issued to anyone who has not complied with the state license laws. A "registered inspector" shall also be employed by the owner on all reinforced concrete, steel frame or mill construction buildings, trusses over 25 ft. span, beams over 25 ft. span or towers more than 30 ft. high. Such inspectors shall be an architect or structural engineer "who has served on building design or construction for at least five years and who has passed the examination of the Board of Examiners and Appeals." A state license shall not be accepted in lieu of this examination.

H. L. WAY HEADS COUNTY ENGINEERS

Howard L. Way of San Bernardino county was elected president of the California Association of County Engineers and Surveyors at the annual three-day convention of that body in Sacramento last week. The meeting was held in conjunction with the convention of the County Supervisors' Association.

Rodney Messner of Marin county was elected vice-president and David Bowman of Santa Cruz was elected secretary.

Discussion of technical engineering problems constituted the major business of the convention.

The next convention will be held in San Bernardino.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone SUtter 1684).

R-3511-S STRUCTURAL ENGINEER familiar with the building industry in Northern California, is qualified to write and talk forcibly and intelligently on problems of building construction. Salary open. Apply by letter with references. Headquarters, San Francisco.

P-2513-S MECHANICAL ENGINEER about 3 years out of college, preferably with some steam boiler experience. Work will be in connection with sales, manufacture and erection of steam boilers. Salary depends upon experience. Location, San Francisco.

R-3495-S WELDING ENGINEER, must be thoroughly experienced welder with some technical education, to demonstrate welding methods and devise applications for manufacturer of welding rods, etc. Salary open. Location, California.

R-2504-S SALES ENGINEER, experienced, to sell outdoor sprinkler installations for large lawns, gardens, nurseries, etc. Must have car. Commission only. One man wanted for San Francisco territory and one for Northwest. Headquarters, San Francisco and Portland.

R-2308-S ENGINEER, preferably mechanical or chemical graduate, with 5 to 10 years' experience, including considerable application of thermodynamics to solution of heat exchange problems as found in oil refinery equipment. Must have executive ability. Apply by letter with details of experience, references and photo. Salary \$200-250 per month to start. Location, Northern California.

W-1957-C-S MECHANICAL ENGINEER, technical graduate, to design steam railway locomotives or railway cars. Experience of at least 5 years essential. One or two year contract, renewable. Salary open, pay in paper rubles for living expenses, balance in United States money to American bank. Total salary subject to Russian income tax of about ten per cent. Applications only by letter which will be forwarded to Moscow for decision. Location, Russia.

W-2184 MECHANICAL DESIGNER, specialist on hot oil pumps for oil cracking plants. Must be technical graduate, familiar with both design and manufacture. Salary open, 2 years, renewable. Other conditions similar to W-1957-C-S above. Location, Russia.

McCLINTIC-MARSHALL APPOINTEES ANNOUNCED

Announcement of additional new appointees in McClintic-Marshall Corporation (subsidiary of Bethlehem Steel Corporation) is made from the offices at Bethlehem as follows: President, R. Walters, Assistant to President, John N. Marshall, Assistant to Vice President in charge of Operations; Jonathan Jones, Chief Engineer; C. H. Mercer, Consulting Engineer; and C. A. Johnson, Manager of Sales. Mr. Marshall and Mr. Jones continue in the capacities which they held with McClintic-Marshall under the previous regime.

Mr. Walters was formerly Manager of Fabrication and Erection Department of Bethlehem Steel. Mr. Mercer was Chief Engineer in that department, and Mr. Johnson was Manager of Sales of Fabricated Material.

BERKELEY PLANS TAX FOR SCHOOLS

Berkeley citizens will be given opportunity to vote upon the "pass-as-you-go" plan of financing school improvements at the municipal election on May 5 as the result of action taken by the Board of Education. By a vote of four to one, the board voted to place the direct tax plan up to the voters, the specific proposition being to raise the district tax levy maximum from 30 to 60 cents per \$1 of assessed valuation. Dr. A. Howe, president of the board, is the dissenting vote.

Should the proposition be given favorable vote by the people, approximately \$220,000 additional would be available for the schools—based on the present assessed county valuation—which approximately \$17,000 might be used for new buildings. The fact that a slightly less amount than that total which would be raised by the new tax would be available for new buildings is because of the 40 per cent limit for capital outlays which governs the district levy.

OAKLAND PROPOSES GASOLINE TAX TO WIDEN CITY STREETS

Whether the city council will endorse the plan of adding one cent to the gasoline tax for opening a widening city streets will depend on recommendation of Walter N. Erik, city engineer, members of the city council declare.

The Lake Merritt Boosters' Club recommends that the cost of street openings be placed on motorists instead of on real estate by adding one cent to the gasoline tax for city streets.

Chas. Newman, president of the club says:

"It is estimated that Oakland needs \$27,000,000 of street openings and widening. Property must be used to assess property owners who autoists are mainly benefited. Being our estimate on the returns from the gasoline tax of last year, a cent additional tax will provide Oakland with \$515,000 annually."

The Telegrove Improvement Club has filed with the council a resolution requesting the council to place before the voters a proposition for \$1,000,000 bond issue to be used exclusively to acquire property for street openings.

CEMENT PLANTS SAFER THAN EVER

Continuing to set a safety example for American industries during 1935, Portland cement plants set still higher safety records when 43 plants completed the year without a lost-time fatal accident. While total production of the industry was only 5% below that of 1929, the Portland Cement Association reports that accidents of types decreased 25%. Of the total 100 accidents, 26 for the first time carried a calendar year with an accident.

Full credit for this achievement given to a consistent safety campaign inaugurated in 1924 and continued ever since.

E. C. Eaton, chief engineer of the Los Angeles County Flood Control District, has requested the county supervisors to apply to the legislature for aid to complete needed county flood control projects in Los Angeles. About \$4,500,000 is needed for this work. The appropriation ask is \$6,000,000.

CITIES OF THE FUTURE—COMMERCIAL BUILDINGS A BLOCK SQUARE—WON'T GO ANY HIGHER—L'S WILL REPLACE THE SUBWAYS

The city of the future will not be lined with towering shafts that touch the clouds nor will its streets be double and triple decked for coming traffic jams, nor will commuting airplanes land on office roofs, says Herbert U. Nelson, Executive-Secretary of the National Association of Real Estate Boards.

Members of the real estate organization are engaged in laying out cities, handling present day skyscrapers, and building factories, as well as selling sites, and Mr. Nelson's predictions are based on trends he has noted in all these fields.

He draws a picture of the next century in which common office buildings are a block long, but not any higher than they are today, and in which noiseless elevated system will transport the crowds via air and sunshine routes instead of in "disagreeable" subways.

Saloon Gone. Now The Lamp Post will be no lamp post, car tracks, or mail boxes in the city of the future. This city wont be spectacular, but it will be clean,—far cleaner than cities are today; and it will be quiet as a country town on a Sunday morning.

But the realty association secretary says this city is practical and embodies what his members think cities in the year 2000 will look like.

"The city of the future will not be lined with 75 story buildings as some people picture it," says Mr. Nelson. "One or two buildings of this height in a city are all right, because they do not interfere with all the other buildings, but if you pack blocks with 75 and 100 story buildings, erect them side by side, as some say will be done, nobody would get any air or light. The higher you go, and the more you build up a block with such high structures, the less air and light will be available.

"After all there is the human element that will be considered. For all the stunning pictures of vistas of 100 story buildings, I do not believe that tenants of the '2000's' will put up with dark and airless quarters, no matter how highly illuminating and ventilating systems are developed.

And Pictures Won't Put Them There "You cannot go on indefinitely crowding people into a certain area of land. Intensity of use cannot be extended beyond a certain point. The farmer knows this. And already there is a tendency away from any increased intensive use of the land in cities.

"The Merchandise Mart in Chicago, planned by its designers for use for many years to come, is only 24 stories high. The General Motors building in Detroit rises only 15 stories; they don't seem very high when one thinks of 75 story structures. But both built with an eye to the future, are a block square.

"I think that big buildings of the future will be like the Chicago Merchandise Mart—a block square—so there will be many windows facing streets so tenants will have air and light on all sides. There probably will be many towers surmounting these buildings, and these towers will be further and further beautified. Thus, such structures will not necessarily be ugly; and I believe that in the time to come they will excite us as favorably as comment on the graceful skyscraper does today.

They Don't Come To Stay

"Cities of the future will handle their enormous vehicular traffic super-highways rather than by double or

triple decked streets. These through-highways will be built along the outskirts of cities to handle the thousands and thousands of motorists that even today pass through our towns, jam the traffic and drive on. Such people have no real desire to traverse the city, and routing them outside of it would please them because it would speed their trips.

"The double or triple-decked street is not practical for the same reason that numbers of 100 story buildings are not practical. There is a limit to the number of people who can be practically handled in a given area of land, and I cannot believe, and have never believed, that you can put swarms of people or vehicles on a first, second and third level and get them in and out of such a section efficiently.

Can't Hang Around The Corners Either

"A few strategically located double-decked, but blocks and blocks of them—no. No matter how clever the illumination on the lower decks shopkeepers and others will not permanently want this space at good rentals.

"Grade separations, and longer, more rugged blocks will also help the traffic problems seventy years from now. The long blocks will cut down on street crossings, and will make life easier for the pedestrian, as well as decrease the traffic tangles that inevitably result where there are many crossings.

"I believe that residential districts will be laid out in areas a quarter of a mile square. These areas will be surrounded by traffic arteries instead of being cut by such arteries as at present. There will be 'dead-ends' within these areas leading to the homes and various buildings for pedestrian traffic, or for the delivery of goods to these homes, or for the vehicles of the residents. Such a plan will decrease the traffic that now rushes by every door, and will make the life of home owner quieter and easier.

Simplifying Street Widening

"Streets will be wider in the downtown areas, but such widening, in my opinion will not be accomplished through the present method of tearing down existing buildings. This is costly—too costly. Future widening will be brought about by extending arcades under commercial and other buildings so that pedestrians will walk on new sidewalks created in this way. Of course, this will mean taking some space away from the first floor of such buildings, but inasmuch as this will serve the shopping or business public, the down-town buildings will come to it, and will be glad to do it.

"Even though such measures will be undertaken, I do not believe that vehicle traffic will be such a big problem in the year 2000, as some people think. In proportion, fewer people will drive to the business centers in their private automobiles. The rapid transit facilities, with further economies in the cost of electricity, will be greatly extended. Much such extension and improvement will be in the elevated systems rather than in the subways.

Coming Up For Air

"No matter how successful they are, or how efficiently they handle the city's travelling masses, subways are uncomfortable, filled with bad air, dark, and unpleasant. And people don't like them. At present they put up with them, but the further development of the 'L' lines will make

the public turn to this mode of transportation. These 'L's' will go underground in the very congested centers, but most of their length will be above ground in the air and light where travel is much more desirable. I believe such lines will be improved so they are noiseless and even improved in pattern and design so they will not be objectionable to the property owners on streets over which they run.

"These automobiles that do come down to the business centers will not be parked in the streets in the city of the future. Commercial buildings and even stores will provide for parking space within their buildings. The newest types of commercial buildings in San Francisco, Cincinnati and other places already show this trend in structures equipped with such garages.

"There is a tendency away from the grouping of public buildings, and the Court House, Post Office and City Hall of the future city no longer will be placed together to represent government, but will be separated into sections which they can best serve. Thus, the post office will be built near railroad terminals to expedite the handling of mails, and all other public structures will be located with thought to their functions.

"Recreational areas adjacent to, and within, the future cities will continue to increase in size because we are so thoroughly sold on the importance of having such space.

Something To Look Forward To

"In the cities the noise of the river will not be heard in the land because this nerve racking process will be replaced by Methods now being perfected. Surface street cars that cause half of the present city's din will be gone with the horse and buggy. Electric transportation, sliding along on quiet rails, will handle the 1930 crowds.

"Street lights, that seldom add, and often detract from the present city's appearance, will have disappeared. Streets will be lighted by floodlights from various buildings and the effect will be more pleasing than it is today. There will be no telegraph and telephone poles in the outer regions.

"The further extension of electrical power and the expansion of territories served by natural gas will make it possible for our cities in the future to be smokeless, and free from dirt and soot. Natural gas is being piped from St. Louis from the Louisiana and Texas fields. I believe that our future cities will use this fuel for factory and heating purposes, and that the consequent elimination of smoke and soot will make cities vertiable garden spots, and that their buildings will gladden in far purer air than we have ever known.

There Wouldn't Be Room

"I do not think that even the next fifty years will bring advances in airplanes that will permit the wholesale landing of them on roofs a block long. Even if the planes should be so perfected that their landings could take off on a made on office building roofs, there never will be enough space for, say all the tenants of a building, to come down to work in their own airplane. Thus I do not have this at all in mind when I predict the advent of the high landing commercial airplane, and as I said before, I took forward to increased beauty in commercial building towers, which can be, and probably will be, very high. All roofs will be used for garden and recreational purposes even in the congested areas.

"I think that when we look into the future we must keep a practical grasp on our imaginations, for although mighty changes take place in the space of fifty years, trends that are

apparent now will have some influence then.

"The city of the future may not seem beautiful to the artist who has conceived glittering skyscrapers hung with graceful airplanes. My city may not seem beautiful by the standards by which we judge civic beauty today. The people in 2000 will think this city is beautiful because it will so perfectly serve the life of the year 2000. Men and women can't live in rows of 100 story buildings to serve either them, or some artists' conception of metropolitan grandeur."

WORLD'S BUILDING PROGRAM 11 BILLIONS

An \$11,000,000,000 world building program is under way this year. It is expected to help overcome hard times and give employment to millions of persons.

The United States program accounts for about two-thirds of the sum being expended by the nations of the world, or about to be expended.

These announcements are made by Hector Laxo of the foreign construction division of the Bureau of Foreign and Domestic Commerce.

Laxo admitted his figures are estimated. He says:

"No figures are available regarding the total world expenditures for construction nor the total number of workers that will be put to work as a result of these expenditures. It is reliably estimated, however, that road building alone will entail a world outlay of \$3,000,000,000 for 1931, of which two-thirds will be spent in the United States; building construction programs already approved in the various nations of the world aggregate over \$8,000,000,000, of which again, the United States will account for two-thirds or more."

MODERNIZE HOME— PAY IN 12 MONTHS

In co-operation with the Weatherbest Stained Shingle Co. of North Tonawanda, N. Y., the Great Lakes Commercial Corp. of Buffalo has developed a home modernization deferred payment plan for Weatherbest dealers, according to Business Week.

Under the plan, the dealer receives a check in full payment of the amount of the building contract, covering both materials and labor, as soon as the job is finished. The home owner pays Great Lakes Commercial direct in monthly installments. Financing rates are based on a charge of 9% for complete payment in 12 months with 1/2% added or deducted for each month over or under 12 in which payments are completed.

No mortgage secures the loan; it is made on a basis of character only. A special form of contract makes other materials dealers and subcontractors furnishing materials or labor co-indorsers with the Weatherbest dealer.

102-STORY BUILDING NEAR VIBRATIONLESS

Elaborate scientific tests, some of them made in the great wind storm of Sunday, March 8, show the 102-story Empire State Building in New York to be almost without vibration.

The tests are being made by Prof. Clayton D. Winkle of Ohio State University and David C. Coyle, consulting engineer. Coyle was on the topmost platform of the tower during Sunday's storm. He said:

"In the worst wind we have had in years there was no vibration that was perceptible without instruments."

ONLY LICENSED ARCHITECTS, BUILDERS AND ENGINEERS MAY OBTAIN PERMITS IN LOS ANGELES UNDER NEW CITY ORDINANCE

A new ordinance (No. 65,959) requiring every person, firm or corporation engaged in the practice of architecture, civil engineering, structural engineering, or acting in the capacity of a contractor or subcontractor, to obtain or have a license from the state of California before any permits or license can be issued by the Department of Building and Safety, to any such person, firm or corporation, passed by the Los Angeles city council was approved by the mayor on February 20 and will become effective in 30 days from the date.

Following is the text of the ordinance:

Section 1. Architects' License Required. Whenever it shall come to the attention of the Board of Building and Safety Commission, or any representative thereof, that any person, firm or corporation is engaged in the practice of architecture, or is acting in the capacity of an architect, as such terms are defined in an act of the State of California, entitled, "An act to regulate the practice of architecture," approved March 23, 1901, as amended by Chapter 68 of the Statutes of 1929 of said State, it shall be the duty of said board or said representative to withhold the issuance of any permit or license required by any law enforced by the Department of Building and Safety, to any such person, firm or corporation, unless such person, firm or corporation holds a legal license to practice architecture, when and as required by said act.

Section 2. Engineers' License Required. Whenever it shall come to the attention of the Board of Building and Safety Commission, or any representative thereof, that any person, firm or corporation is engaged in the practice of civil engineering, or is acting in the capacity of civil engineer, as provided in an act of the State of California, entitled, "An act regulating the practice of civil engineering," approved March 14, 1929, Chapter 801 of Statutes of 1929 of said State, or is engaged in the practice of structural engineering, or acting in the capacity of structural engineer, as such terms are defined in an act of the State of California, entitled, "An act to regulate the practice of architecture," approved March 23, 1901, as amended by Chapter 68 of Statutes of 1929 of said State, it shall be the duty of said board or said representative to withhold the issuance of any permit or license, required by any law enforced

by the Department of Building and Safety, to any such person, firm or corporation, unless such person, firm or corporation holds a legal license to practice civil engineering, or structural engineering, when and as required by either or both of said acts.

Section 3. Contractors' License Required. Whenever it shall come to the attention of the Board of Building and Safety Commission, or any representative thereof, that any person, firm, or corporation is engaged in the business of contracting, or is acting in the capacity of a contractor or subcontractor, as such terms are defined in an act of the State of California, entitled, "An act providing for the registration of contractors, and defining the term contractor; et cetera, approved June 13, 1925, Chapter 791 of Statutes of 1925 of said State, it shall be the duty of said board or said representative to withhold the issuance of any permit or license, required by any law enforced by the Department of Buildings and Safety to any such person, firm or corporation, unless such person, firm or corporation holds a legal license to act as a contractor, when and as required by said act.

Section 4. Evidence of License Required. The Board of Building and Safety Commission, or any representative thereof, shall have the right authority to question and examine any person, firm or corporation applying for any permit or license, required by any law enforced by the Department of Building and Safety, as to whether or not such person, firm or corporation is engaged in the practice of architecture, civil engineering, structural engineering and/or contracting or is acting in the capacity of architect, civil engineer, structural engineer and/or contractor, as provided in sections 1, 2 and 3 of this ordinance and may require satisfactory evidence to be submitted to establish that any person, firm or corporation is not engaged in any such practice and is not acting in any such capacity.

Before the issuance of any permit or license, required by any law enforced by the Department of Building and Safety, to any architect, civil engineer, structural engineer or contractor, the said board or said representative may require such applicant thereof to exhibit the state license required by said state acts, or to furnish such information as may be necessary to establish legal possession of such state license.

STANDARD ELECTRIC STOVE BEING MARKETED BY ENGLISH MANUFACTURERS

A unique standardization project has been completed in England with the design of a standard electric stove which is being manufactured by a number of firms responsible for the production of more than nine-tenths of the electric stoves marketed in England. This project probably marks one of the most important attempts yet made to stimulate the use of a product by means of standardization.

In this stove, which is called the British Standard Cooker, there is provided, according to the announcement, a simple and reliable appliance of standardized construction to be sold at a relatively low price. An added factor which is expected to help popularize electric stoves in England is the ease and low cost of replacing parts. The stove was designed by a joint committee representing the Incorporated Municipal Electrical Association and the British Electrical and Allied Manufacturers Association. The design and have agreed to the com-

promise requisite for mass-production of a commercial article."

In commenting on this new development, the Electrical Review of London states:

"Combined action by electrical manufacturers comes none too soon to meet the challenge of recent developments in gas cookers, also a result of the pooling of experience. In face of the needs of the situation, the commercial advantages of the British Standard Cooker, in our opinion, easily outweigh the omission of technical points which individual manufacturers may, perhaps rightly, regard as superior in their own specialized designs.

... may be thought about constructional details, these do not strike us as the most significant aspect of the British Standard Cooker. The main point is that manufacturers of upwards of nine-tenths of the electric cookers made in England, quite obviously differences of opinion or Allied Manufacturers Association.

Building News Section

APARTMENTS

Contract Awarded — Sub-Bids Being Taken.
APARTMENTS Cost, \$45,000
REDWOOD CITY, San Mateo Co., Cal. No. 29 Clinton Street.
 Three-story and basement frame and stucco apartments (15 apts.)
 Owner—W. J. Bridgland, 569 Presidio Ave., San Francisco.
 Plans by Owner.
 Contractor — Daley Bros., 1104 Vancouver Ave., Burlingame.
 Lumber—San Mateo Planing Mill, San Mateo.
 Concrete — Redwood Materials Co., Redwood City.
 Concrete Labor — John Morey, San Mateo.
 Sub-bids are wanted on all other portions of the work.

Preparing Preliminary Plans.
APARTMENTS Cost, \$—
LOS ANGELES, Cal. Wilshire Blvd. near Curson Avenue.
 Thirteen-story and basement Class A reinforced concrete apartments (141-150 feet).
 Owner—General Investment Co., (Bert Simmons, President).
 Architect—Gene Verge, Beaux Arts Bldg., Los Angeles.

Additional Sub-Contracts Awarded.
APARTMENTS Cost, \$175,000
SAN FRANCISCO, N Jackson Street E Gough Street.
 Six-story and basement class C concrete apartments (26 apts.)
 Owner and Builder—E. Jose, 251 Kearny Street.
 Architect—H. C. Baumann, 251 Kearny Street.
Steel Forms—Concrete Eng. Co., 1280 Indiana Street.
Plastering — Marconi Plastering Co., 1737 Beach St.
Ornamental Plaster—Max Mindner 450 Fifth Street.

terra Cotta—Western Clay Products Co., 1501 Harrison St.
brick Work—Martin Nelson, 2847 Army Street.
Sheet Metal—Morrison & Co., 74 Du-roce Ave.
Plastering—A. Harper, 140 8th St.
Hill Work—L. H. Birth, 1715 19th St.
 As previously reported, lumber contract awarded to Loop Lumber Co., central Basin; concrete to California concrete Co., 1422 Steiner St.; steel to McClintic-Marshall Co., 2059 Bryant St.; reinforcing steel to W. C. Auk Co., 280 San Bruno Ave.; electric work to Aetna Electric Co., 1337 Webster St.; plumbing to J. Gibbs & Co., 1706 Geary St.

Owner Taking Segregated Bids.
APARTMENTS Cost, \$70,000
BERKELEY, Alameda Co., Cal. Virginia and Oxford Sts.
 Three-story and basement reinforced concrete apartments.
 Owner—Max Bakar, Alameda County Title Insurance Bldg., Oakland.
 Plans by Chy N. Burrell, American Trust Bldg., Oakland.

Sub-Bids Wanted.
APARTMENTS Cost, \$17,800
SAN FRANCISCO, E Divisadero St. N Jefferson.
 Three-story and basement frame and stucco apartments (6 apts.)
 Owner—G. and M. Teglia, 2023 Franklin Street.

Plans by B. K. Dobkowitz, 425 Mont-erey Blvd.
 Contractor—G. Harder, 1233 41st Ave.
 Sub-bids are wanted on sash and frames, roofing, tile, hardwood flooring, sheet metal, roofing, electric stoves, carpets and linoleum, stair work, wall beds, refrigeration, shades, metal medicine cabinets, glass and cabinets.

Sub-Bids Being Taken.
APARTMENTS Cost, \$85,000
SAN FRANCISCO, N Pacific Avenue 120 E Gough Street.
 Six-story and basement Class C concrete and steel frame apartments (24 3-room apts.)
 Owner and Builder—T. B. Strand, 668 Funston Ave., San Francisco.
 Architect—Irvine & Ebbets, Call Bldg., San Francisco.

Sub-Bids Being Taken.
APARTMENTS Cost, \$85,000
SAN FRANCISCO, N Pacific Ave. 75 E Gough St.
 Six-story and basement Class C concrete and steel frame apartments (24 3-room apts.)
 Owner and Builder—T. B. Strand, 668 Funston Ave., San Francisco.
 Architect—Irvine & Ebbets, Call Bldg., San Francisco.

Contract Awarded.
APARTMENTS Cost, \$15,000
SAN JOSE, Santa Clara Co., Calif. North Second St. bet. Mission and Taylor Sts.
 Two-story frame and stucco apts. (4 3-room apts.)
 Owner—C. C. Moon, 371 S 8th St., San Jose.
 Architect—Withheld.
 Contractor—George Kocher, Commercial Bldg., San Jose.
 Construction has just been started. Electric refrigeration, steam heating system.

Contract Awarded — Sub - Bids Being Taken.
APARTMENTS Cost, \$25,000
REDWOOD CITY, San Mateo Co., Cal. Two-story and basement frame and stucco apartments (12 apts.)
 Owner—Mr. Mallory.
 Plans by Grimes & Schoening, Balovich Bldg., San Mateo.
 Contractor—Daley Bros., 1104 Vancouver, Burlingame.

SKILSAW Portable Electric Hand Saws (4 models).

SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attachments.

SYNTRON Portable Electric Hammer (4 models, motorless).

MALL Flexible Shaft Machines (50 models).

Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric Tools.

1246 Mission St. Underhill
 San Francisco 7662
SALES . SERVICE . RENTALS

Owner Taking Bids.
APARTMENTS Cost, \$16,000
SAN FRANCISCO. Location not given
 Two-story frame and stucco residence and apartments (6 room residence and three-room apartments).
 Owner—A. J. Taggion, 160 South Park San Francisco.
 Architect—Powers & Ahnden, 605 Market Street. 1

Sub-Contracts Awarded.
APARTMENTS Cost, \$25,000
BURLINGAME, San Mateo Co., Cal. Two-story and basement frame and stucco apartments (17 2 and 3-room apts.) (tile garage 36x4 ft.)
 Owner—E. Cobo, 378 N. Delaware St., San Mateo.
 Plans by Grimes & Schoening, Balovich Bldg., San Mateo.
Electric Wiring—M. E. Ryan, Redwood City.

Plumbing and Heating—Morrison & Blair, San Mateo.
 Bids are wanted on lathing, plastering and tile work.

BONDS

LCS BANOS, Merced Co., Cal.—Second election will be called in the West Side Union High School District to vote bonds of \$175,000 to finance erection of a new high school plant, preliminary plans for which have been prepared by Architect W. D. Coates, Jr., Fresno. An election held several days ago was defeated by a vote of 419 in favor and 408 against, a two-thirds majority being required to carry the proposal.

MONTEREY, Monterey Co., Calif.—City council will call an election shortly to vote bonds of \$11,000 to finance construction of a new branch library in the New Monterey District. A site for the structure has already been secured.

OAKLAND, Cal.—City council has been petitioned by the Board of Library Directors to place on the August ballot a proposal to issue bonds of \$993,000 to finance the erection of ten new branch library buildings and purchase of necessary equipment. The proposal has been taken under advisement.

ONTARIO, San Bernardino Co., Cal.—Ontario elementary school district has been advised that, owing to a legal technicality, the \$55,000 bond issue voted on February 24 is invalid and will probably have to be resubmitted to the voters.

BERKELEY, Alameda Co., Calif.—Board of Education will place on the May 5 municipal election ballot, a proposal to levy a direct tax of from 30 to 50 cents per 100 of assessed valuation, to finance school improvements, consisting of new schools and additions and alterations to standing structures. Should the proposal be considered favorably by the voters approximately \$250,000 additional would be available for school construction—based on the present assessed county valuation—of which approximately \$177,000 might be used for new buildings.

CHURCHES

Contract Awarded.
CHURCH Cost, \$190,000
PORTLAND, Ore. West Park and Columbia Sts.
 Class A church; brick exterior, hatched terra cotta roof, auditorium to seat 1,000.
 Owner—Sixth Church of Christ Scientist.
 Architect—Morris H. Whitehouse and associates, Railway Exch. Bldg., Portland.
 Contractor—Ross B. Hammond, Inc., Public Service Bldg., Portland.
Plumbing and heating—Kendall Heating Co., 24 Front St., Portland.
Electric Work—National Electric Co., 170 Thompson St., Portland.

Contract Awarded.
CHURCH Cost, \$150,000
LOS ANGELES, Cal. Thirty-fourth St. near University Ave.
 Four-story Class A reinforced concrete church (85x130 feet).
 Owner—University Methodist Church.
 Architect—C. Raymond Johnson, University of California, Los Angeles
 Contractor—William Simpson Co., Architects Bldg., Los Angeles.

FACTORIES AND WAREHOUSES

Sub Bids to Be Taken in Two Weeks.
CREAMERY Cost, \$100,000
BERKELEY, Alameda Co., Cal. San Pablo Ave. near Delaware St.
 Two-story brick creamery and store.
 Owner—G. R. Heath, 2330 Garber St., Berkeley.
 Plans by engineers—Names withheld.
 Contractor—E. H. Wendt, 2116 Allston Way, Berkeley.

NORWALK, Los Angeles Co., Cal.—J. W. Owsley, 130 W. Spruce St., Norwalk, will erect a new mill building and elevator at 142 W. Front St., Norwalk, for Williams Brothers, hay and grain dealers. The mill will have concrete footings and floor and frame superstructure. There will be eight storage tanks, each 10x15 feet in area and 40 feet high, of frame construction with shiplap exteriors. The total cost of the improvements, including machinery and equipment, will be \$100,000.

March 13, 1931
 Contract Awarded.
ALTERATIONS Cost, \$5000
LOS GATOS, Santa Clara Co., Cal.
 Alterations to bakery.
 Owner—Superior Bakery, Los Gatos.
 Architect—Rollin S. Tuttle, Reimers & Garren, Los Gatos.
 Contractor—E. E. Gearhart, Los Gatos

SAN FRANCISCO.—Atlas Spray Co., 3253 16th Street, at \$900 awarded contract for whitewashing and painting Pier No. 42, and at \$2,900 for whitewashing and painting Pier No. 44, by State Harbor Commission. The only other bid was submitted by Aristo Painting Co., at \$1,515 (Pier No. 42), \$3,285 (Pier No. 44).

Sub-Contracts Awarded.
LAUNDRY Cost, \$7200
PALO ALTO, Santa Clara Co., Calif.
 Home Avenue.
 One-story reinforced concrete laundry.
 Owner—Alfred F. Dalmon and Leopold Berdoulay, 260 Homer Ave., Palo Alto.
 Plans by Erwin Reichel, 303 University Ave., Palo Alto.
 Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.
Sheet Metal—Stanford Sheet Metal Works, Palo Alto.
Glass—Coast Glass Co., Palo Alto.
Structural Iron—H. Eleibler, Palo Alto
Plastering—H. McKenna, Palo Alto.
Plumbing—Cashel Bros., Palo Alto.

Reinforcing Steel—W. S. Wetenhall Co., 17th and Wisconsin Streets, San Francisco.
Mill Work—D. & S. Lumber Co., Mt. View.
Wiring—Done by Owner.
Laundry Machinery—Furnished by the Owner.

AVON, Contra Costa Co., Calif.—California Steel Products Co., 425 Bay St., San Francisco, at approximately \$20,000 awarded contract by Associated Oil Co. to construct steel tanks in connection with cracking plant at Avon.

Bids Wanted—To Be Opened April 2nd, 3:15 P. M.
HANGAR, ETC. Cost, \$65,000
SACRAMENTO, Sacramento Co., Cal.
 Municipal Airport
 Steel frame and wood hangar and air terminal station.
 Owner—City of Sacramento, H. G. Denton, city clerk.
 Architect—Starks & Planders, Forum Bldg., Sacramento.

RENO, Nevada—G. I. Martin, general agent for the Western Pacific Railroad at Reno, announces the company has provided funds in the 1931 budget to finance erection of a new freight station and the installation of an electric loading crane in connection with the structure.

Plans Being Prepared.
BUILDINGS Cost 1st unit \$75,000
 Total Cost, \$400,000
CONCORD, Contra Costa Co., Calif.
 Immediately adjoining the city limits and extending approximately 7 miles.
 Group of approximately 20 poultry buildings, administration buildings, offices, warehouses, etc.)
 Owner—Wickham-Havens, Inc., 1510 Franklin St., Oakland.
 Plans by Eng. Dept. of Owner. (H. Sylvester, engineer), 1510 Franklin St., Oakland.
 Construction will be carried over a period of four years. Corrugated iron roofs and backs, wood frame, concrete base and runs. Poultry buildings will be 18x350-ft. Bids will be taken in about 30 days.

GARAGES AND SERVICE STATIONS

Steel and Lumber Contracts Awarded.
SALES BLDG. Cont. Price, \$63,915
SAN FRANCISCO. Mission Street nr. Ney Street.
 One- and two-story steel frame and reinforced concrete auto sales and service building.
 Owner—W. E. Street, 251 Magellan Avenue.
 Architect—Irvine & Ebbets, Call Bldg.
 Contractor—William Spivock, Hobart Building.
Structural Steel—Judson Pacific Co., 609 Mission St.
Lumber—J. H. McCallum, 748 Bryant Street.
 As previously reported, excavation awarded to Plombo Bros., 124 Parker St.; concrete to Golden Gate Atlas Materials Co., 16th and Harrison Sts. Other awards will be made shortly.

Sub Bids Being Taken
SERVICE BLDGS. Cost \$40,000
REDWOOD CITY, San Mateo Co., Cal.
 Group of service buildings (wood frame and tile walls).
 Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Contractor—Clinton-Stephenson Construction Co., Monadnock Bldg., San Francisco.
 Plans have been revised and new sub bids are being taken.
 Group includes warehouse, garage, service departments, superintendent's offices, etc.

Sub Contracts Awarded
SERVICE STATION Cost, \$11,50
SAN FRANCISCO. Nineteenth Av. and Lincoln Way.
 One-story brick super service station
 Owner—Associated Oil Co., 79 Ne Montgomery St., San Francisco.
 Architect—Masten and Hurd, Shreve Bldg., San Francisco
 Contractor—Bevey & Spivock, She Bldg., San Francisco.
Concrete Materials—Pacific Coast Aggregates, 85 2d St.
Plumbing—J. J. McLeod, 1246 Golde Gate Ave.
Electric Wiring—F. D. Wilson Co., 144 8th St.
Sheet Metal—Morrison & Co., 74 DuBois Ave.
Glass—Central Hardware Co., 638 41 St.
Finish Hardware—E. M. Hundley, 66 Mission St.
Roofing—Lighting Poles—Taper Tub Pole Co., Monadnock Bldg.,
 Specifying—Austin Tile Co.

GOVERNMENT WORK AND SUPPLIES

PORT LEWIS, Wash.—(Special Correspondence)—Following is a complete list of prospective bidders to erect 1 non-commissioned officers' quarters, field officers' quarters and 27 company officers' quarters at Port Lewis, bid for which will be opened March 27 by the Constructing Quartermaster at Port Lewis:
Non-Commissioned Officers' Quarters
 Dolph Jones, 2213 N. Proctor Street Tacoma, Wash.
 Joseph Potucek, 3534 Roosevelt Ave Tacoma, Wash.
 Tuell Bros., Tacoma, Wash.
 A. H. Silver & Son, 1414 W. Ray St. Tacoma, Wash.
 Macdonald Building Co., 1517 S. Tacoma Way, Tacoma, Wash.
 Stiro & Hanson, 920 North L St. Tacoma, Wash.
 F. A. Soller, Box 282, Olympia Wash.
 William Wills, 1529 8th Avenue W. Seattle, Wash.
 Murdock & Eckman, Liggett Bldg. Seattle, Wash.
 F. W. Ealley Const. Co., Empln Bldg., Seattle, Wash.
 Peder P. Gjarde, 430 Lyon Bldg. Seattle, Wash.
 H. J. and Daniel Solie, 2326 Colby Ave., Everett, Wash.
 Harry Boyer & Son, Olympia, Wash.
 F. F. Larson, 321 Washington Bldg. Tacoma, Wash.
 Knoell & Westerfield, 1208 N. 1 St. Tacoma, Wash.
 West Coast Const. Co., Seattle Washington.
 Madsen Const. Co., Minneapolis Minnesota.
 Walesby Const. Co., Puget Sound Bank Bldg., Tacoma, Wash.
 A. V. Holmes, 943 S. Tacoma Ave. Tacoma, Wash.
 E. G. Walker, 3403 N. Adams St. Tacoma, Wash.
 Albertson & Cornell Bros., 1113 1/2 A St., Tacoma, Wash.
 Lidal Const. Co., 2nd and Columbia Sts., Seattle, Wash.
 Campbell Engineering Co., Tacoma, Washington.
 Johnson Bros. General Contractors, Seattle, Wash.
 A. F. Mowat, 518 McDowell Bldg. Seattle, Wash.
 William T. Post, 4720 Pacific Ave. Seattle, Wash.
 R. S. Lipscomb, 4235 Brooklyn Ave. Seattle, Wash.
 H. A. Wetmore, Tacoma, Wash.
 F. C. Comb & Co., 2113 Chicago Ave., Minneapolis, Minn.
 6 Field Officers and 27 Company Officers' Quarters
 Macdonald Building Co., 1517 S. Tacoma Way, Tacoma, Wash.
 Stiro & Hanson, 920 North L St. Tacoma, Wash.

Madsen Const. Co., Minneapolis, Minn.
 Harry Boyer & Son, Olympia, Wash.
 Waleby Const. Co., Puget Sound Ind Bldg., Tacoma, Wash.
 A. W. Holmes, 943 S Tacoma Ave., Tacoma, Wash.
 Quail Bros., 820 S Junett, Tacoma.
 E. G. Walker, 3403 N Adams St., Tacoma, Wash.
 Albertson & Cornell Bros., 1113 1/2 A St., Tacoma, Wash.
 Lidal Const. Co., 2nd and Columbia Sts., Seattle, Wash.
 A. F. Mowat, 518 McDowell Bldg.,ATTLE, Wash.
 H. J. and Daniel Solie, 2326 Colby St., Everett, Wash.
 William T. Post, 4720 Pacific Ave.,ATTLE, Wash.
 William Wills, 1529 8th Avenue W.,ATTLE, Wash.
 J. W. Bailey Const. Co., Empire Bldg., Seattle, Wash.
 R. S. Lipscomb, 4295 Brooklyn Ave., Seattle, Wash.
 H. A. Wetmore, Tacoma, Wash.
 Fred R. Comb & Co., 2113 Chicago St., Minneapolis, Minn.

Bids Opened
LEVATOR Cost, \$—
 SAN FRANCISCO, Letterman General Hospital (kitchen No. 9).
 stall electric freight elevator.
 Owner—U. S. Government.
 Architect—Constructing Quartermaster, Fort Mason.
 General Elevator Co., 166 7th St. 32195
 Elevator Co. 2520
 C. Van Emom Elevator Co. 2700
 Electric Elevator & Equipment Co. 2830
 Bids held under advisement.

BOULDER CITY, Nevada—U. S. Bureau of Reclamation, Las Vegas, is preparing plans and will call for bids on for additional buildings to be erected at Boulder City. Program calls for the construction of a town hall, school, garage, dormitory and rest house, auditorium, administration building, and 75 cottages for employees comprising five 6-room, fifteen 5-room, twenty-six 4-room and twenty-five 3-room buildings. City small garages and a swimming pool will also be built.

PACIFIC COAST S. T.—Administrator lines of the U. S. Veterans' Bureau, Arlington Bldg., Washington, D. C., has recommended extensive improvements for four existing hospitals in the western states. His recommendations provide:

- 1—That there be constructed in the state of Oregon south of Portland and east of the Cascade mountains a soldiers' home in the Northwest to cost \$600,000 with provision for future extension.
- 2—That there be erected at U. S. Veterans' Hospital, American Lake, Wash., a new unit of 164 beds at a cost of \$300,000.
- 3—That there be constructed at U. S. Veterans' Hospital, Boise, Idaho, a new infirmary building of 150 beds at a cost of \$250,000.
- 4—That there be erected at U. S. Veterans' Hospital, Helena, Mont., a new infirmary building of 150 beds and central heating plant at a cost of \$30,000.
- 5—That there be constructed at U. S. Veterans' Hospital, Portland, Ore., a new administration building at a cost of \$125,000 which will result in an increase at that location of 50 beds.
- 6—That there be erected at U. S. Veterans' Hospital, Walla Walla, Wash., a new kitchen and mess hall at a cost of \$105,000.

PORTLAND, Ore.—See "Miscellaneous Construction," this issue. Bids to be asked by U. S. Engineer Office for construction four steel derrick scows.

PANAMA CANAL Zone.—See "Revolvers and Dams," this issue. Bids

to be asked by Purchasing Officer, Panama Canal Commission, Washington, D. C., to construct Madden Dam and auxiliary works on the Chagres River in the Canal Zone.

SAN FRANCISCO—Until March 30, under Circular No. 67, bids will be received by Signal Section, San Francisco General Depot, Procurement Division, Presidio, to furnish and deliver 100 Type FT-33, 50 Type FT-35 sleeves less than 2.00 in. Type M, to order. Further information obtainable from above.

Bids Opened.
INSTALL ORGAN Cost, \$—
 SAN FRANCISCO, Presidio Chapel. Install organ.
 Owner—United States Government.
 Architect—Constructing Quartermaster, Fort Mason.

Following is a complete list of bids:

Oliver Organ Co.	\$2,500
Alternate	2,500
Rudder Organ Co.	3,090
M. P. Muller	3,500
George Kildes	3,850
L. B. Sykes	4,200
Leaphur Co.	4,400
Wurlitzer Co.	5,520
Sherman Clay Co.	6,200
Alternate	3,300

Bids held under advisement.

Consulting Architect Named.
POST OFFICE Cost, \$665,000
 STOCKTON, San Joaquin Co., Cal. Class A post office.
 Owner—United States Government.
 Architect—Bliss & Calverton, Berkeley Bldg., San Francisco.
 Consulting Architect—Howard G. Biswell, 421 S-Miner St., Stockton.

SAN DIEGO, Cal.—Until 11 a. m., March 21, bids will be received by the Public Works Department, Eleventh Naval District, San Diego, for addition to building No. 24 at the Naval Operating Base (Air Station), San Diego, Specification No. 6380. The work consists of a steel-frame lean-to approximately 20 feet wide and 180 feet long, and includes concrete foundations and floor; steel columns, beams, purlins and framing; steel windows and doors; corrugated iron roofing and siding; and electrical work. Bidding data may be obtained from the Commandant, Eleventh Naval District, San Diego, upon deposit of a check or postal note for \$10 payable to the Chief of the Bureau of Yards and Docks. Capt DeWitt C. Webb, public works officer.

MARCH FIELD, Riverside Co., Cal.—DeCamp-Hudson-Seckles, Inc., 1277 W. 24th St., Los Angeles, submitted low bid at \$111,365 (including alternate proposal for linoleum floor covering) to the constructing quartermaster at March Field on March 10 for the erection of two sets of field officers' quarters, eight sets of company officers' quarters and 10 garages at March Field; specification No. W-6694-18. Recommendation has been made that the contract be awarded to DeCamp-Hudson-Seckles. Each of the quarters will contain 8 rooms and 3 bathrooms; hollow tile walls, stucco exteriors, cast stone trim, clay tile and composition roofing, steel windows, tiled bathtubs, gas-steam radiators.

SAN FRANCISCO—Until March 26, 10 A. M., under Circular No. 928-31-232, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 1,975 galvanized ash cans. To be water tight, slide to have deep vertical corrugations with well reinforced top and bottom rim, drop side handles, concrete with covers. Covers to be of one piece, stamped, fitting over outside of can. Covers to be packed 12

to a strong substantial wooden crate. Cans to be in nests of 5 each, viz.: 1,000 about 26x26-in., approx. 37 lbs. each (sample can to be submitted with bid).
 975 about 18x26-in., approx. 30 lbs. each (sample can to be submitted with bid).
 Specifications obtainable from above office.

SAN FRANCISCO—Until March 26, 10 A. M., under Circular No. 928-31-232, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 6,800 lbs. wire nails. Specifications obtainable from above office.

SAN FRANCISCO—Until March 26, 10 A. M., under Circular No. 928-31-232, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver 624 brass case or bronze padlocks. Specifications obtainable from above office.

Plans Being Completed—Bids To Be Asked Shortly.
POSTOFFICE Cost, \$1,500,000
 OAKLAND, Alameda Co., Cal. 12th, 13th, Alice and Jackson Sts. Superstructure of class A postoffice.
 Owner—U. S. Government.
 Plans by Supervising Architect, Plans by Supervising Architect, Treasury Dept., Washington, D. C.

Contract for the foundation work on this structure was awarded in January to George Petersen of San Leandro, at \$35,480. It is expected the bids for the superstructure will be asked this month. When bids are requested the official call for bids will be published in Daily Pacific Builder.

NAPA, Napa Co., Cal.—Bids to furnish the Federal Government with a site on which it is proposed to erect the new postoffice building will be received by the Treasury Department, Washington, D. C., April 7, it is announced by James Gillies, postmaster of Napa.

ANACAPA ISLAND, Calif.—Until March 24, 2 P. M., bids will be received by Superintendent of Light-houses, 425 Customhouse, San Francisco, for the construction of 4 frame stucco dwellings, 5 frame frame stucco shop buildings, 1 frame tank house and a reinforced concrete light tower, power house and oil house at Anacapa Island, Calif. Location is eleven miles off the mainland and thirty miles southeasterly from Santa Barbara. Plans obtainable from above office.

SAN FRANCISCO—Until March 26, 10 A. M., under Circular No. 928-31-232, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish and deliver twelve 8-ft. step ladders; to be made of selected clear spruce lumber, with steps shaped and dadoed into rails. Spreaders riveted to rails and legs. Each step braced with a steel rod trussed underneath. Each to be cross braced. Packed in bundles of 2 each. Specifications obtainable from above office.

VISALIA, Tulare Co., Calif.—Until April 9, bids will be received by Supervising Architect, Treasury Department, Washington, D. C., to furnish site on which to erect new postoffice, for which \$150,000 is available.

BENICIA, Solano Co., Calif.—Until March 20, under Circular 99, bids will be received by Commanding Officer, Benicia Arsenal, to furnish and deliver 124 quart liquid paint drier, 100 gals. cartridge storage cast paint, 750 cans red enamel, 150 gals. gloss paint, 500 quarts red paint, 600 quarts stencil paint, 200 lbs. putty, 2,000 quarts

paint and varnish remover, 1,500 qts. orange shellac, 720 camel's hair brushes, 300 painter's duster brushes, 600 sash trim paint brushes, 120 stripping brushes, 250 wire wide scratch brushes and 260 wire scratch brushes. Specifications obtainable from above.

Plans Being Figured — Bids Close
 March 31, 11 A. M. Cost, \$—
AIR STATION San Diego, Cal.
 SAN DIEGO, San Diego Co., Cal.
 Naval Operating Base (Air Station).

One-story, 24x90 ft. plain and reinforced concrete extension to Building No. 15 (Specification 6343)
 Owner—United States Government.
 Plans by Public Works Department, 11th Naval District, San Diego.
 Plans obtainable from Public Works officer at San Diego on deposit of \$10, returnable.

WACO, Texas—Henry B. Ryan Co., Chicago, has been awarded contract by the U. S. Veterans' Bureau for the construction of the Veterans' hospital at Waco, Texas. Ryan's bid, received subsequent to the scheduled hour of opening, was \$747,000. Work will consist of the erection of a main building, four stories, 266x106 ft.; administration building, two stories, 44x167 ft.; dining hall, two stories, 17x121 ft.; treatment building, three stories, 173x149 ft.; recreation building, one story, 65x114 ft.; attendants' quarters, two stories, 41x121 ft.; boiler house, two stories, 73x40 ft.; storehouse, garage building, laundry building, nurses' quarters, M. O. residence, officers' quarters, water softening plant, radial brick chimney, and all roads, walks, grading and drainage in connection with these buildings. Construction will be reinforced concrete with hollow terra cotta filler walls and partitions.

Bids Opened.
DWELLINGS Cost, \$—
 BOWLING CITY, Nevada. 15 miles SE of Las Vegas.

Six 4-room and six 3-room dwellings.
 Owner—U. S. Government.
 Plans by U. S. Bureau of Reclamation, Denver.

W. W. Dickerson of Lehi, Utah, at \$17,630 apparently low bid, second of 17 bids submitted by Lewis J. Bowers, Salt Lake City, at \$22,574, and F. C. Snel, Beverly Hills, at \$23,064 third low. Seventeen bids were submitted. Complete tabulation of bids will be published shortly.

LOS ANGELES, Cal.—The supervising architect's office of the Treasury Department has instructed Wm. A. Newman, district engineer, Post-office Bldg., 7th and Mission Sts., San Francisco, to proceed to Los Angeles and initiate steps looking toward construction of the new Los Angeles Federal buildings. The matter of selecting sites will be taken up soon after Mr. Newman's arrival and his recommendations forwarded to Washington for immediate action. \$50,000 has been appropriated for the purchase of property. The Treasury and Post Office Departments have recommended to Congress appropriations totaling \$9,050,000 for the construction of the buildings and it is expected these funds will be made available in the December session. It is understood that Los Angeles architects will be retained to design the structures.

HOQUIAM, Wash.—In addition to those previously reported the following are prospective bidders to erect postoffice at Hoquiam, bids for which will be opened by the Supervising Architect, Treasury Department, at Washington, D.C., on April 1:
 Alexander & McNeil, Mt. Vernon, Wash.
 Wesley Construction Co., Tacoma, Wash.

Nels Nelson, 815 Eglund Ave., Hoquiam, Wash.
 F. G. Poster Co., Hoquiam, Wash.
 Neal McDonald, Seaboard Building, Seattle, Wash.

Andrew F. Mowatt, 518 McDowell Building, Seattle, Wash.
 Ellery W. Newton, 3rd and Union Sts., Seattle, Wash.
 Phelps-Drake Co., Inc., Minneapolis Minn.

Carl Hedeon, American Bank Bldg., Seattle, Wash.
 Peder P. Gjarde, 430 Lyon Building, Seattle, Wash.

Nelson & Johnson, Hoquiam, Wash.
 Wm. T. Post, 4720 Pacific Avenue, Tacoma, Wash.
 Grays Harbor Construction Co., Hoquiam, Wash.

Dolph Jones, 2213 N. Proctor St., Tacoma, Wash.
 Hans Pederson, Coleman Bldg., Seattle, Wash.

Johnson Bros., Coleman Bldg., Seattle, Wash.

H. L. Cunliffe, McDowell Bldg., Seattle, Wash.
 J. B. Lamb, Aberdeen, Wash.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Dept., Washington, D. C., to furnish and deliver as noted in the following schedules, further information being available from the Navy Purchasing Officer, 100 Harrison St., San Francisco:

Bids Open March 31
 Mare Island, 120,000 lbs. rivet steel bar; sch. 5305.
 San Francisco, 1 motor-driven milling machine and 4 arbor cutters, collets, etc.; sch. 5317.
 San Francisco, 1 motor-driven drill press; sch. 5318.

Seattle, one ball bearing throughout variety saw bench; sch. 5320.
 Seattle, one motor-driven hacksaw; sch. 5322.

San Francisco, 1 motor-driven pinking machine; sch. 5333.
 San Francisco, 1 motor-driven power squaring shear; sch. 5335.

San Francisco, one hand-operated bending brake machine; sch. 5329.
 San Francisco, 1 motor-driven constant volume blower; sch. 5319.

Puget Sound, 2 electric food-baking ovens and spares; sch. 5324.
 Mare Island, 900 galvanized screw anchor shackles; sch. 5355.

Mare Island, 3,400 lbs. aluminum bronze powder; sch. 5340.
 San Diego, 1 hardening furnace and equipment; sch. 5339.

San Francisco, 2 sinking pumps, air or steam driven; sch. 5369.
 San Francisco, 1 motor-driven metal cutter bandsaw machine; sch. 5363.

San Francisco, 6 rear wheel drive type tractors; sch. 5371.
 San Francisco, 2 electric hand drills, 2 do, 2 electric screwdrivers, and 2 do; sch. 5346.

Mare Island, 6,600 ft. seamless steel tubing; sch. 5361.
 San Francisco, 3 duralumin riveting hammers, 1 small riveter, 1 squeeze type riveter; sch. 5362.

San Francisco, 1 motor-driven sensitive drill; sch. 5364.
 Mare Island, 1 motor-driven cylindrical grinder; sch. 5367.

LAS VEGAS, Nev.—U. S. Treasury Department will call for bids in April for the construction of the new Federal building at the foot of Third St., Las Vegas. It will be a two-story masonry structure.

HALLS AND SOCIETY BUILDINGS

SANTA CRUZ, Santa Cruz Co., Cal.—Fay Wyman Post No. 888, Veterans' of Foreign Wars, Santa Cruz, has adopted a resolution urging that the county supervisors use, as soon as available, the first \$60,000 raised for

the purpose of erecting Veterans' Memorial buildings in Santa Cruz at Watsonville, to build the first structure at the county seat. The funds are being obtained via the direct method.

Sub-Contracts Awarded.
MEMORIAL BLDG.

Contract Price, \$33,000.
 CORNING, Tehama Co., Cal. Solar St. and Houghton Ave.
 One-story brick Memorial Building Owner—County of Tehama.
 Architect—Starks & Flanders, Fort Bldg., Sacramento.
 Contractor—Azevedo & Sarmiento, 10 S. St., Sacramento.

Heating (electric—Cox Electric Co. Red Bluff, approx. \$5,000).
 Plumbing—Jos. Allen, Red Bluff, (a prox. \$1,500).
 Brick and Tile—O'Connor Bros., R. Bluff (approx. \$7,000).

SALINAS, Monterey Co., Cal.—Captain Francis E. Heple, 40 Tank Company, National Guard, has submitted tentative plans to the city council for the proposed new armory-auditorium for which the city has donated a site. The State Legislature has appropriated \$15,000 for construction in addition to \$10,000 to be furnished by the city exclusive of the site. Slight revisions in the plans were requested by the council. M. R. Keef is city clerk.

HOSPITALS

Commissioned To Prepare Plans.
ADDITION Cost, \$205,000.
 PENDERLETON, Oregon. Eastern Oregon State Hospital Grounds.
 Fireproof wing addition to State Hospital (210 inmates).
 Owner—State of Oregon.
 Architect—Knighting & Howell, U. S. Bank Bldg., Portland.

PACIFIC COAST.—See "Government Work and Supplies," this issue. Construction recommended for U. S. Veterans' Hospital in Northwester states.

Contracts Awarded.
ALTERATIONS Cost, \$—
 MERCED, Merced Co., Cal. County Hospital Grounds.

One-story frame Isolation Ward and alterations and repairs to county hospital.

Owner—County of Merced (P. J. Thornton, county clerk).
 Engineer—W. E. Bedesen (county surveyor), Merced.

General Contract—C. B. Cameron and Son, Merced, \$8,159.

Plumbing—Sanitary Plumbing Company, Merced, \$3,045.

Steam Heating—Sanitary Plumbing Co., \$1,324.

Electric Work and Call System—Merced Hardware Co., Merced, \$1,014.

Plastering—H. A. Sheridan, Merced, \$3,797.

Painting—Zierenberg & Son, Merced, \$650.

Kitchen Remodeling—Merced Hardware Co., Merced, \$1,500.

NORWALK, Los Angeles Co., Cal.—Baker Ice Machine Co., Los Angeles, at \$5,351 awarded contract by State of California for refrigeration plant at Norwalk State Hospital for the State of California. Plans prepared by State Architect, George B. McDougall, Public Works, Bldg., Sacramento.

Additional Sub Contracts Awarded
WARD Cont. Price, \$41,435
 TALAMAGE, Mendocino Co., Cal. State Hospital Grounds.

Ward No. 7, consisting of six one-story dormitories and connecting arcade; reinforced concrete construction (total floor area 10,000 sq. ft. with arcade space of 4000 sq. ft.)
 Owner—State of California.

hitect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect Public Works Bldg., Sacramento.
 Contractor—Nelson, 242 Ocean Ave., San Francisco
et Metal—Morrison & Co., 74 DuBoise Ave., San Francisco.
ting—A. Stoneback, 1431 Eddy St., San Francisco.
Work—Art Tile & Mantel Co. 221 Oak St., San Francisco.
ent—Henry Cowell Lime & Cement Co., 2 Market St., San Francisco.
 her awards reported Feb. 24th.

Contracts Awarded.
ITION Cost, \$30,000
FRANCISCO Twenty-seventh and Valencia Streets.
 -story steel frame cafeteria addition.
er—St. Luke's Hospital, premises.
itect—George Kelham, 315 Montgomery Street.
tractor—Chas. Stockholm & Sons, Suss Bldg.
atural Steel—Schradr Iron Works, 247 Harrison St.
Cotta—Gladding, McBean & Co., 50 Market St.
 her awards will be made shortly.

OCKTON, San Joaquin Co., Cal.
erican Surgical Sales Co., Ltd., 1000 Sutter St., San Francisco, at \$9,000.
 -submitted low bid to the county supervisors to furnish sterilizers and equipment for the County General Hospital now in course of construction. American Sterilizer Co., 1500 Sutter St., San Francisco, only bidder at \$9944. Bids taken for advisement.

Being Figured—Bids Close April 14, 2 P. M.
ISTRATION BLDG. Cost, —
ALHAI, K. Co., Cal.
 -institution building and cottages for California Institution for Women.
 -State of California.

By State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.
 Buildings are two stories with concrete floors and walls, concrete and brick partitions, wood roof construction and tile roof.

Administration Building has a floor area of approximately 20,000 square feet.
 Cottages, two of which are included in this contract, have a floor area of approximately 10,500 sq. ft.
 Separate bids will be entertained for following segregate parts of the building combinations:
 1. General Work, embracing all trades of the construction other than Plumbing, Heating, Ventilating and Electrical Work.
 2. Plumbing Work.
 3. Heating and Ventilating Work.
 4. Combined Plumbing, Heating and Ventilating Work.

S. RAMENTO, Cal.—Howard K. Bohm, chairman of the Board of Supervisors, announces steps will be taken at an early meeting of the Board of Supervisors to consider the construction of a new county indigent home. Nothing definite will be done until construction, however, until July 1, the beginning of the new fiscal year. The county has \$20,000 available for the purchase of the site and for the proposed building. Johnson is in charge of the structure on the site. A system in order to distribute the expenditure over a period of three years. The first unit would accommodate approximately 250 indigents.

HOTELS

Contract Awarded—Sub - Bids Being Taken.
HOTEL Cost Approx. \$35,000
MCDESTO, Stanislaus Co., Cal. 9th Street.
 Two-story and basement brick hotel. Owner—Withheld.
 Architect—G. N. Hilburn, Elks Bldg., Modesto.
 Contractor—M. F. Varozza, 1011 5th St., Modesto.

ICE AND COLD STORAGE PLANTS

Plans Being Figured.
STORAGE PLANT Cost, \$70,000
ANAHEIM, Orange Co., Cal. Center Street.
 One-story reinforced concrete and hollow tile storage and pre-cooling plant (55x105 feet).
 Owner—Golden State Citrus Products Co., Anaheim.
 Architect—H. A. Hamm, 2145 Sacramento St., Los Angeles.
 Engineer—W. Adrian, 417 Market St., San Francisco.
 Foundations are to be laid for two future stories to be added at a later date. Bids are being received by Mr. Calopy, Savoy Hotel, Los Angeles.

POWER PLANTS

STEVENSON, Wash.—Columbia River Power Co., Seattle, seeks preliminary permit from the Federal Power Commission to construct a \$20,000,000 hydro-electric plant on the Columbia river near Stevenson. Plans call for from four to six hydro units of from 30,000 to 40,000 horsepower.

PASADENA, Calif.—Allis - Chalmers Manufacturing Co., 1117 Rowan Bldg., Los Angeles and Milwaukee, submitted low bid to city directors March 16 for construction and installation of steam turbine generator unit at the power plant of the City of Pasadena, State of California, at Glenarm St. and Raymond Ave. Proposals were taken as follows:

Item 1. One 25,000-kw. 16,500-volt, 3-phase, 50-cycle, steam turbine electric generator unit and appurtenances, to operate with steam at 400 lbs. per square inch gauge pressure and 750 deg. F. total temperature at the throttle, and 28-in. Hg. vacuum (referred to 30-in. Hg. barometer) at the exhaust.

Item 2. Alternative to Item 1.

Part 1. One 25,000-kw. 11,000-volt, 3-phase, 50-cycle, steam turbine electric generator unit and appurtenances, including 3 single phase auto transformers with taps to raise the generator voltage to the substation high line voltages of 16,500, 15,750 and 15,000.

Part 2. Alternative to Part 1 of Item 2. Same as part 1 except one 3-phase auto transformer is substituted for the three single phase auto transformers.

Item 3. One complete set of extra blading for the spindle and for the case together with the proper packing tools to be used on the said steam turbine electric generator unit described in Item 1 or Item 2.

In the list of bids which follows (a) is cash and (b) is deferred payments.

The bids follow:
Allis - Chalmers Co., (1a) \$400,000; (1b) \$403,000; (2) part 1, (a) \$423,100; (b) \$458,250; part 2, (a) \$419,400; (b) \$422,550; (3) (a) \$70,000; (b) \$50,525.
General Electric Co., (1a) \$465,500; (1b) \$466,775; (2) part 1, (a) \$424,920; (b) \$438,470; part 2, (a) \$427,260; (b) \$430,460; (3) (a) \$73,000; (b) \$73,450.
Westinghouse Electric & Mfg. Co., (1a) \$463,750; (1b) \$466,200; (2) part 1, (a) \$427,000; (b) \$430,500; part (2)

(a) \$422,800; (b) \$426,400; (3) (a) \$72,000; (b) \$72,600.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Plans To Be Prepared.
JAIL WING, ETC. Cost, \$146,500
SALEM, Oregon.
 Fireproof jail wing, enlarge dining room and auditorium and construct new cell block.
 Owner—State of Oregon.
 Preliminary plans being made by H. H. Meyers, state prison superintendent, Salem.

Bids Wanted On Masonry, Terra Cotta, Brick, Cast Stone and Granite —To Be Opened April 22.
LEGION BLDG. Cost, \$2,500,000
SAN FRANCISCO, Calif. Center Street.
 Four-story and basement concrete class A Legion Building.
OPERA HOUSE Cost, \$2,500,000
 Six-story class A opera house, seating capacity 4,000; standing room 500.
 Owner—City and County of San Francisco (S. F. War Memorial).
 Architect—G. A. Lansburgh, 140 Montgomery St. and Arthur Brown, 251 Kearny St.
 Manager of Const.—Lindgren & Swinerton, Inc., 225 Bush St.
 As previously reported, structural steel awarded to Columbia Steel Co., Russ Bldg.

LOS GATOS, Santa Clara Co., Cal.—Town trustees contemplate installation of jail equipment in firehouse to serve the present jail quarters which are declared inadequate. H. G. Nobis is chief of police.

SAN FRANCISCO—Columbia Steel Co., Russ Bldg., awarded contract to fabricate and erect structural steel in connection with the San Francisco War Memorial Project. The contract was awarded at \$79 per ton for the War Memorial Building and \$91 per ton for the Opera House. Contract involves approximately from 5,500 to 6,000 tons. Arthur Brown, Jr., and G. Albert Lansburgh, architects. A complete list of bids on this work appeared in issue of March 3.

BEVERLY HILLS, Los Angeles Co., Cal.—Architects Koerner & Gage, 468 N. Camden Dr., Beverly Hills, and John C. Austin and Frederic M. Ashley, consulting architects, Chamber of Commerce Bldg., Los Angeles, were authorized by Beverly Hills City Council at a meeting March 10 to proceed with the working plans for the new city hall and fire station to be built in Beverly Hills. The buildings will be of reinforced concrete construction. The city hall will cost \$400,000 and the fire station \$50,000.

SAN BRUNO, San Mateo Co., Cal.—Bids will be asked shortly by the city council to remodel city hall, involving changes to the office quarters and the construction of three private garages; estimated cost \$3500. Emil A. Bohm is city clerk.

Commissioned To Prepare Plans.
HALL OF RECORDS Cost, \$500,000
MARTINEZ, Contra Costa Co., Cal.
 Class A Hall of Records.
 Owner—County of Contra Costa.
 Architect—J. J. Donovan, 1916 Broadway, Oakland.

The Contra Costa County supervisors have withdrawn their contract with W. H. Weeks, San Francisco architect, to prepare plans for this structure and have commissioned Architect Donovan of Oakland to proceed with drawings.

RESIDENCES

Completing Plans
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Cal. El Camino Real.
Two-story and basement frame and stucco residence (7 rooms, 3 baths)
Owner—Withheld.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
Bids will be taken in two weeks.

Sub Bids Being Taken
RESIDENCES Cost each, \$5000
MILLBRAE HIGHLANDS, San Mateo Co., Cal.
Four 1-story and basement frame and stucco residences (5 rooms each).
Owner and Builder—Castle Bldg. Co., 830 Market St., San Francisco.
Architect—Not Given.
Sub-bids will be taken in one week.
Tile and composition roofing, gas heating system.

Sub Bids Being Taken
RESIDENCES Cost each, \$5000
MILLBRAE HIGHLANDS, Santa Mateo Co., Cal.
Two 1-story and basement frame and stucco residences (6 rooms each).
Owner and Builder—Castle Bldg. Co., 830 Market St., San Francisco.
Architect—Not Given.
Sub-bids will be taken in one week.
Tile and composition roofing, gas heating system.

Owner Taking Bids.
RESIDENCE Cost, \$7500
MODESTO, Stanislaus Co., Cal.
1½-story frame and stucco residence.
Owner—L. F. Baker, Modesto.
Architect—G. N. Hiburn, Elks Bldg., Modesto.

Plans Being Completed.
RESIDENCE Cost, \$6000
MILLBRAE HIGHLANDS, San Mateo Co., Cal.
One-story and basement frame and stucco residence (5 rooms).
Owner and Builder—O. Harjuilin, 3rd St., San Francisco.
Architect—Not Given.
Sub-bids will be taken in a few days.

Contract Awarded.
RESIDENCE Cost, \$—
BURLINGAME, San Mateo Co., Cal.
Easton Dr.
Two-story and basement frame and stucco residence (7 rooms, 2 baths)
Owner—F. Brown.
Plans by Grimes & Schoening, Palo-lich Bldg., San Mateo.
Contractor—C. B. McClain, 1412 Edgell, Burlingame.

Sub Bids Being Taken.
RESIDENCE Cost, \$3000
SAN FRANCISCO, Sutro Park Ave.
One and one-half story frame and stucco residence (7 rooms and 2 baths).
Owner and Builder—George Elkington Jr, 1291 23d Ave, San Francisco.
Architect—Chas. Strothoff, 2274 15th St., San Francisco.
Tile roof, gas heating system, colored tile baths and kitchen.

Sub-Figures Being Taken.
RESIDENCE Cost, \$5000
SAN LEANDRO, Alameda Co., Calif.
Estudillo Estate, Bridge Road.
One and one-half-story frame and stucco residence (6 rooms).
Owner—Withheld.
Plans by Ralph Wood, 1197 Foothill Blvd., San Leandro.
Contractor—Nylander Bros., 632 Montclair, Oakland.

Preparing Working Drawings.
RESIDENCE Cost, \$4000
OAKLAND, Alameda Co., Cal. Quigley Avenue.
One-story and basement frame and

stucco residence (5 rooms).
Owner—F. B. Menksa, care architect.
Plans by Ralph Wood, 1197 Foothill Blvd., San Leandro.
Work will be done by Day's Work. Plans will be ready for sub-bids in 3 days.

Contract Awarded.
RESIDENCE Cost, \$12,000
BERKELEY, Alameda Co., Cal. 2630-2632 Hilgard Avenue.
Three-story frame and stucco residence (12 rooms; 2-family).
Owner—C. J. Clark, 5508 Chabot Rd., Oakland.
Plans by C. R. Madison, 1518 Leroy Ave., Berkeley.
Contractor—H. H. Porter, 8 Norwood Ave., Oakland.

Sub Bids Wanted.
BUNGALOWS Cost, \$—
SONOMA COUNTY, Calif.
Eight 1-story frame and stucco bungalows.
Owner—Mutual Home Builders Assn., Santa Rosa.
Plans by Owners.
Residences are being erected in Santa Rosa and adjoining territory.
Sub bids are wanted on framing, rough carpentry, plumbing, plastering, electrical work, masonry work and materials.

Plans Being Completed.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement rustic residence (7 rooms).
Owner—C. Wesley Toy, 760 S 9th St., San Jose.
Architect—Einder and Curtis, 535 W. San Carlos St., San Jose.
Bids will be taken in about 2 weeks.

Plans Complete.
RESIDENCE Cost, \$6500
BURLINGAME, San Mateo Co., Cal.
Laguna Avenue.
1½-story frame and stucco residence (6 rooms).
Owner—Withheld.
Architect—Wolfe & Higgins, Realty Bldg., San Jose.
Contractor—E. J. Hargrave, 1106 Laguna Ave., Burlingame.
Sub-bids will be taken shortly.

Plans Being Figured—Bids Close Mar. 27th.
RESIDENCE Cost, \$—
PIEDMONT, Alameda Co., Cal.
Two-story and basement brick veneer, frame and stucco residence.
Owner—Gerald B. Trayner, % architect.
Architect—Farr & Ward, 68 Post St.

Preparing Working Drawings.
RESIDENCES Cost each, \$10,000
SACRAMENTO, Sacramento Co., Cal.
Location Withheld.
Two two-story frame and stucco residence (7 rooms each).
Owner—Withheld.
Architect—Harry Devine, California State Life Bldg., Sacramento.
Bids will be taken in about 2 weeks.

Sub-Bids Being Taken.
RESIDENCE Cost, \$15,000
WOODSTOCK, San Mateo Co., Cal.
Two-story and basement frame and stucco residence (7 rooms and 3 baths).
Owner and Builder—G. W. Williams & Co., Ltd., 1404 Broadway, Burlingame.
Architect—J. K. Ballantine, 137 Hylan Place, San Francisco.
Construction will start March 23rd.

Sub-Bids Wanted.
BUNGALOWS Cost, \$—
SONOMA COUNTY, Cal.
Forty one-story frame and stucco bungalows.
Owner—Mutual Home Builders Assn., Santa Rosa.
Plans by Owner.
Residences are being erected in Santa Rosa and adjoining territory.
Sub-bids are wanted on framing, rough carpentry, plumbing, plastering, electrical work, masonry work and materials.

Contract Awarded.
ALTERATIONS Cost, \$1000
WALNUT CREEK, Contra Costa Co., Calif.
Alterations and additions to frame and stucco residence (add two rooms and baths, etc.)
Owner—J. K. Lockhead, Walnut Creek.
Architect—W. E. Milwain, Pacific Bldg., Oakland.
Contractor—G. A. Scott, 685 23rd St., Oakland.
Work involves tile work, case work, concrete foundations, cement w/c, etc.

Contract Awarded.
RESIDENCE Cost, Approx. \$1000
PALO ALTO, Santa Clara Co., Cal.
Two-story and basement frame and stucco residence (7 rooms and 2 baths)
Owner—D. E. Wood, Palo Alto.
Architect—Henry Collins, Decker Bldg., Palo Alto.
Contractor—R. C. Knight, Mt. View.
Sub-bids are in and will be awarded shortly.

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Plans Being Completed
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence.
Owner—Dr. P. A. Brancatto, 1266
Naglee Ave., San Jose.
Architect—Binder & Curtis, 35 W-
San Carlos St., San Jose.
Bids will be taken in two or three
weeks.

Contract Awarded.
RESIDENCE Cost, \$15,000
OAKLAND, Alameda Co., Cal. 1216
Sunnyside Road.
Two-story and basement frame and
stucco residence (9 rooms).
Owner—O. R. Lapham, 947 Hillcroft
Circle, Oakland.
Architect—Not Given.
Contractor—Theo. H. Lapham, 5 46
Kenmore Ave., Oakland.

Preliminary Plans Being Prepared.
RESIDENCE Cost, \$—
SAN FRANCISCO, Marina District.
Two-story and basement frame and
stucco residence (8 rooms and 3
baths).
Owner—Withheld.
Architect—Norman R. Coulter, 46
Kearny St.

Sub-Bids Being Taken.
RESIDENCE Cost, \$6000
SAN FRANCISCO, NW Twenty-first
Ave. and Lawton St.
One-story and basement frame and
stucco residence (6 rooms).
Owner and Builder—John Carlson, 2239
Bryant St., San Francisco.
Architect—Withheld.
Tile and composition roofing, gas
and hot air heating system.

Contract Awarded.
RESIDENCE Cost, \$7474.75
BLOOMFIELD, Sonoma Co., Cal.
Two-story and basement frame and
stucco residence.
Owner—Mac M. Emith, Bloomfield.
Architect—Berz, Winter & Maury,
210 Post St., San Francisco.
Contractor—C. W. Shatto, Sebastopol

Completing Plans.
RESIDENCE Cost, \$12,000
SANTA CRUZ, Santa Cruz Co., Cal.
One-story and basement frame and
stucco residence (7 rooms and 3
baths; English type; tile or slate
roof).
Owner—L. Bowman, Santa Cruz
Architect—L. D. Esty & McPhetres,
Alta Bldg., Santa Cruz.
Bids will be taken in about two
weeks.

Contract Awarded.
RESIDENCES Cost each \$4500
SAN FRANCISCO, Mariposa and
Rhede Island Streets.
Seventeen 1-story and basement frame
and stucco residences (5 rooms
each).
Owner—Chas Gompertz, Hearst Bldg.,
San Francisco.
Architect—Walter Falch, Hearst Bldg.,
San Francisco.
Contractor—A. D. Collman, 666 Mis-
sion Street.
Hardwood Flooring, Tile Baths and
kitchen, plaster finish gas furnaces,
automatic water heaters.

Contract Awarded.
RESIDENCE Cost, \$11,300
BURLINGAME, San Mateo Co., Cal.
Easton Drive.
Two-story and basement frame and
stucco residence (7 rooms).
Owner—Robert F. Williams et al, 160
Hooper St., San Francisco.
Architect—Not Given.
Contractor—G. W. Williams Co., Ltd.,
1404 Broadway, Burlingame.

Sub Bids Being Taken
RESIDENCE Cost, \$10,000
MILLBRAE HIGHLANDS, San Mateo
Co., Cal.
One-story and basement frame and
stucco residence (7 rooms and 2
baths).
Owner and Builder—D. E. Pearson,
1906 Berryman St., Berkeley.
Architect—Chas. Strothoff, 2274 15th
st.; colored tile bath and kitchen.
San Francisco.
Canvas walls and ceilings, gas heating

Plans Being Completed.
FRATERNITY HOUSE Cost, \$—
BERKELEY, Alameda County, Calif.
Leroy and Virginia St.
Two-story and basement frame and
stucco fraternity house.
Owner—Alpha Chi Sigma, Berkeley.
Architect—W. H. Ratcliff, Jr., Cham-
ber of Commerce Bldg., Berkeley.
Plans will be ready for bids in about
two weeks.

Preparing Preliminary Plans.
RESIDENCE Cost, Approx. \$50,000
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and
stucco residence.
Owner—Withheld.
Architect—Miller & Warnecke, Fi-
nancial Center Bldg., Oakland
Working drawings will be started in
about two weeks.

Bids To Be Taken Shortly
RESIDENCE Cost Approx. \$20,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence (10 rooms).
Owner—Dr. E. P. Cook St. Claire
Bldg., San Jose.
Architect—Ralph Wyckoff, San Jose
National Bank Bldg., San Jose.

Plans Being Figured
RESIDENCE Cost, \$12,000
SANTA ROSA, Sonoma Co., Cal.
Two-story and basement frame and
stucco residence (10 rooms).
Owner—Mr. Nelligan Santa Rosa.
Architect—Russell Guerne De Yappe,
1710 Franklin St., Oakland.
About ten days will be allowed for
figuring the plans.

Sub-Contracts Awarded.
RESIDENCE Cost, \$14,000
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and
stucco residence (9 rooms and 3
baths).
Owner and Builder—Allan McIntyre,
446 Highland, San Mateo.
Plans by Grimes & Schoening, Ealo-
vich Bldg., San Mateo.
Concrete Work—San Mateo Concrete
Co., San Mateo.
Rough Lumber—Wisnom Lumber Co.,
San Mateo.
Mill Work—Lannom Bros. Mfg. Co.,
5th and Magnolia Sts., Oakland.
Plumbing—Frank J. Regan, Burling-
ame.

Painting—David J. Miller, 16 St. Inez,
San Mateo.
Sub-bids are wanted on plastering,
tiling, brick work, chimneys and wir-
ing.

Sub-Bids Being Taken.
RESIDENCE Cost, \$4750
OAKLAND, Alameda Co., Cal. Du-
rante Manor, corner 105th St. and
Beverly Blvd.
1½-story and basement frame and
stucco residence (6 rooms).
Owner—C. W. Griffith, 1427 87th Ave.,
Oakland.
Plans by Ralph Wood, 1197 Foothill
Blvd., San Leandro.
Double garage, wood and coal fur-
nace, shingle roof.

Bids To Be Taken In One Week.
BUNGALOW COURT, Approx. \$45,000
SAN CARLOS, San Mateo Co., Calif.
One-story frame and stucco bungalow
court.
Owner—Withheld.
Architect—Ernest Norberg, 580 Mar-
ket St., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$4750
OAKLAND, Alameda Co., Cal. Du-
rante Manor, corner 106th St. and
Beverly Blvd.
1½-story and basement frame and
stucco residence (6 rooms).
Owner—C. W. Griffith, 1427 87th Ave.,
Oakland.
Plans by Ralph Wood, 1197 Foothill
Blvd., San Leandro.
Double garage, wood and coal fur-
nace, shingle roof.

Sub Bids Being Taken.
RESIDENCE Cost, \$30,000
WATSONVILLE, Santa Cruz Co.,—
Two-story and basement frame, stucco
and brick residences (11 rooms and
3 baths).
Owner—J. E. Porter, Watsonville.
Architect—A. W. Story, Pajaro Valley
Bank Bldg., Watsonville.
Contractor—H. H. Larsen Co., 64 So.
Park, San Francisco.

SCHOOLS

SAN FRANCISCO.—American Stud-
ios, 1650 Folsom St., at \$6,233.50 sub-
mitted lowest bid to City Purchasing
Agent, to furnish stage fittings and
draperies, rigging and counterweight
systems for addition to the Balboa
High School. Following is a complete
list of the bids received:
American Studio, \$6,233.50; 30 - 45
days.
Theatre Drapery Studio, \$6,500; 60
days.
F. E. Turner, \$6,839; 60 days.
B. F. Shearer, \$8,164.50; 60 days.
J. L. Stewart Mfg. Co., \$8,716.50; 30
days.
Bids held under advisement.

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Contracts Awarded
SCHOOL Cost, \$40,000
SANTA CLARA, Santa Clara Co., Cal.
 Brick veneer annex to high school.
 Owner—Santa Clara School District.
 Architect—W. H. Weeks, 111 Sutter
 St., San Francisco

General Work
 William M. Meyer, Cupertino
 Approx. \$19,080

Heating
 A. J. Peters, 455 E. Washing-
 ton St., San Jose, approx. \$6600

Painting
 C. W. Lynn, San Jose, approx. \$268.70.
 Propositions to be accepted have
 not been decided upon.

Plans Being Figured—Bids Close Apr.
 24, 7:30 P. M.

GYM Cost, \$100,000
MONTEREY, Monterey Co., Cal.
 One-story reinforced concrete and tile
 gymnasium and reinforced concrete
 and tile swimming pool.
 Owner—Monterey Union High School
 District.
 Architect—Swartz & Ryland, Spazier
 Bldg., Monterey.

Completing Plans.
SCHOOL Est. cost, \$180,000
SAN FRANCISCO, Claremont Blvd.
 and Taraval St.

Two-story class B reinforced concrete
 school
 Owner—City and County of San Fran-
 cisco.

Architect—Dodge Rely, Pacific Bldg.,
 San Francisco.

Plans will be completed in about
 30 days.

Bonds Voted—Work Plans Being Pre-
pared

SCHOOL Cost, \$75,000
CARMEL, Monterey Co., Cal.
 One-story frame and stucco grammar
 school.

Owner—Sunset School District.
 Architect—Swartz & Ryland, Spazier
 Bldg., Monterey.

Trustees of the district are: Fred-
 erick Bigland, Hester Hall Schoen-
 inger and Clara N. Kellogg.

ST. HELENA, Napa Co., Cal.—Due
 to the resignation of W. H. Weeks of
 San Francisco, as architect for the
 proposed new school building, trustees
 of the St. Helena Grammar School
 District will shortly select a new ar-
 chitect to prepare plans for the school.
 An election will be held April 14 to
 vote bonds of \$85,000 to finance the
 project, of which \$10,000 will go for
 the purchase of furnishings and equip-
 ment.

Additional Sub-Contracts Awarded.
SCHOOL Cost approx. \$300,000
OAKLAND, Alameda Co., Cal. Pied-
 mont Highlands (Edith Street near
 Morpeth).

Group of reinforced concrete high
 school buildings (academic build-
 ings, auditorium and gymnasium;
 accommodate 500).

Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.,
 San Francisco.

Architect—H. A. Minton, Bank of
 America Bldg., Eddy and Powell
 St., San Francisco.

Contractor—James L. McLaughlin, 251
 Kearny St., San Francisco.

Heating and Ventilating—J. A. Pol-
 lier, 401 14th Ave., San Francisco.

Electric Work—Kenyon Electric Co.,
 526 13th St., Oakland.

Plumbing—L. Krusa Co., 6247 Col-
 lege Ave., Oakland.

Plastering—Chris Berg, 580 Market St.,
 San Francisco.

As previously reported, excavation
 awarded to Ariss-Knapp Co., 961 41st
 St., Oakland; reinforcing steel and
 steel forms to Concrete Engineering
 Co., 1280 Indiana St., San Francisco.

Buildings will be constructed for the
 Sisters of The Holy Name.

Sub-Contracts Awarded.
GYMNASIUM Cont. Price, \$97,995
SAN JOSE, Santa Clara Co., Calif.
 State Teachers' College grounds.
 Reinforced concrete men's gymnasium
 Owner—State of California.
 Architect—State Department of Pub-
 lic Works, Division of Architec-
 ture, Public Works Bldg., Sacra-
 mento.

Contractor—J. J. Grodem & Co., 1023
 San Antonio Ave., Alameda.
Excavation—Carstedt & Carstedt, San
 Jose.

Concrete Materials—Borchers Bros.,
 396 North 1st St., San Jose.

Ornamental Iron—Michael & Pfeffer
 Iron Works, Harrison and Tenth
 Sts., San Francisco.

Reinforcing Steel—Concrete Engineer-
 ing Co., 1280 Indiana St., San
 Francisco.

Structural Steel—Schradler Iron Wks.,
 1247 Harrison St., San Francisco.

Lumber—Pacific Mfg. Co., Monadnock
 Bldg., San Francisco, and Sunset
 Lumber Co., 400 High St., Oak-
 land.

Mill Work—Sunset Lumber Co., 400
 High St., Oakland.

Glass and Glazing—East Bay Glass Co.
 621 6th St., Oakland.

Finish Floors—Oak Floor Co., 325 Ar-
 lington St., San Francisco.

Other awards reported Dec. 27, 1920.

FRESNO, Fresno Co., Calif.—Until
 April 23, 8 P. M., bids will be re-
 ceived by L. L. Smith, secretary,
 Board of Education, 2425 Fresno St.,
 to furnish and deliver supplies and
 equipment for the school year 1921-22.
 Specifications obtainable from secre-
 tary.

Plans Being Completed.
AUDITORIUM Cost, \$70,000
VISALIA, Tulare Co., Cal.
 High School auditorium (seating ca-
 pacity 1,500 persons).
 Owner—Visalia High School District.
 Architect—Ernest J. Kump, Rowell
 Bldg., Fresno.

Preliminary Plans Being Prepared.
SCHOOL & GYM Cost, \$40,000
ELDRIDGE, Sonoma Co., Cal. So-
 noma State Home.

School and gymnasium.
 One-story reinforced concrete.
 Owner—State of California.
 Architect—Powers & Ahnden, 605 Mar-
 ket St., San Francisco.

Eids Opened.
SCHOOL Cost, \$30,000

SANTA CLARA, Santa Clara Co., Cal.
 Reinforced concrete elementary school.
 Owner—Santa Clara School District.
 Architect—Ralph Wyckoff, 19 N Sec-
 ond St., San Jose.

Following is a complete list of bids:
 Prop. No. 1, Main building.
 Prop. No. 2, Changing walls from
 concrete to brick veneer.
 Prop. No. 3, Changing doors from oak
 to pine.
 Prop. No. 4, Changing floors from
 maple to pine.

General Work
 Paul Anderson, Tully Rd., San Jose,
 (1) \$27,386; (2) \$27,790; (3) \$26,958; (4)
 \$27,086.

Gay M. Latta, San Jose, (1) \$29,506;
 (2) \$31,521; (3) \$29,073; (4) \$29,346.

Neves & Hart, San Jose, (1) \$29,700;
 (2) \$25,690; (3) \$29,200; (4) \$29,420.

Thermotte Const. Co., (1) \$29,898;
 (2) \$28,898; (3) \$29,898; (4) \$29,598.

W. J. Ochs, San Jose, (1) \$31,144;
 (2) \$28,539; (3) \$30,964; (4) \$30,663.

The Minton Co., Mt. View, (1) \$31,-
 759; (2) \$30,721; (3) \$31,221; (4) \$31,542.

Carl N. Swensen, San Jose, (1) \$32,-
 358; (2) \$30,085; (3) \$31,828; (4) \$32,053.

W. J. Ochs & Newell, San Jose, (1) \$32,-
 688; (2) \$30,682; (3) \$32,203; (4) \$32,-
 223.

R. O. Summers, San Jose, (1) \$32,-
 977; (2) \$31,348; (3) \$32,421; (4) \$32,-
 747.

N. J. Nielsen, San Jose, (1) \$39,907;
 (2) \$29,615; (3) \$39,379.

Heating
Clow Gasteam Heating Co., San
 Francisco (gas steam heat)..... \$1,977
 Schreiber Bros., Oakland..... 2,942
 A. J. Peters, San Jose..... 2,698
 Geo. A. Schuster, Oakland..... 2,745
 O'Mara & Stewart, S. F..... 2,747
 Herman Lawson, San Francisco..... 3,000
 Wm. Serpa, San Jose..... 3,150
 H. J. Pascoe, San Jose..... 3,495

Plumbing
 August Roll, 1157 Franklin St., San
 Jose, (1) \$4,103; (2) \$4,176.

Geo. A. Schuster, Oakland (1) \$1,123.
 H. J. Pascoe, San Jose, (1) \$4,128;
 (2) \$5,215.

A. J. Peters, San Jose (1) \$4,250; (2)
 \$4,300.

W. F. Serpa, San Jose (1) \$4,380,
 (2) \$4,405.

Wm. Moss, San Jose, (1) \$4,545; (2)
 \$4,620.

Herman Moltzen, San Jose, (1) \$4,-
 656; (2) \$4,704.

W. J. Coakley, San Jose (1) \$5,360;
 (2) \$5,450.

Electric
 Gilbert Bros., 286 W Santa Clara,
 San Jose, \$3,105; (3) \$2,444.

University Electric Co., San Jose,
 (1) \$2,498; (3) \$2,562.

R. M. Butcher, San Jose, (1) \$3,587;
 (2) \$3,720; (3) \$2,356.

Norman Russell, San Jose, (1) \$3,-
 694; (2) \$3,791; (3) \$3,500.

Fraser Bros., San Jose, (1) \$3,958;
 (3) \$3,383.

Painting
 Peter Rohde, 900 Willow Glen Way,
 San Jose, (1) \$1,536; (2) \$1,221; (3)
 \$1,511.

Raphael Co., 270 Tehama St., San
 Francisco, (1) \$1,856; (2) \$1,606; (3)
 \$1,836.

Bids held under advisement.

Plans Being Figured.

ADDITION Cost, \$—
BRENTWOOD, Contra Costa Co., Cal.
 One-story brick addition to present
 grammar school.

Owner—Brentwood-Deer Valley School
 District (C. M. Shoemaker, Clerk)
 Brentwood.

Architect—James T. Narbett, 474 31st
 St., Richmond.

Plans for this structure with the
 additions proposed were originally
 prepared by Architect James Narbett,
 474 31st St., Richmond. Construction,
 however, will be under the supervision
 of the trustees of the district. Bids
 for the construction are now being
 taken. Date of opening not yet set.

Preliminary Plans Being Prepared.
GYMNASIUM Cost, \$1,000,000
BERKELEY, Alameda Co., Cal.
 Campus of University of Califor-
 nia.

Class A gymnasium.
 Owner—University of California, Ber-
 keley.

Architect—George Kelham, 315 Mont-
 gomery St., San Francisco.

Preliminary Plans Being Prepared.
SCHOOL Cost, \$30,000

BURNS VALLEY, Lake Co., Cal.
 One-story frame and stucco school.
 Owner—Burns Valley School District.
 Architect—Not Given.

Willis Lowe, 354 Hobart St., Oak-
 land, is preparing preliminary plans.
 Bond election will be held early in
 April to finance construction.

Preliminary Plans Awaiting Approval.
SCHOOL Cost, \$8000

LAKEPORT, Lake Co., Cal.
 One-story frame and stucco school (2
 classrooms).

Owner—Burns Bank School District.
 Architect—Norman R. Coulter, 46
 Kearny St., San Francisco.

Plans Being Completed.
SCHOOL Cost, \$87,000
YUBA CITY, Sutter Co., Cal.
 Two-story brick elementary school.
 Owner—Yuba School Dist., C. P. Taylor, Roy E. Cassidy and Elizabeth Z. Littleton (clerk), trustees of district.
 Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.
 Bids will be advertised for about April 1.

BRENTWOOD, Contra Costa Co., Calif.—Brentwood-Deer Valley School District vote bonds of \$15,000 to finance erection of a three-classroom addition to the present school. Bids or construction will be asked shortly.

Sub-Contracts Awarded.
GYMNASIUM Cont. Price, \$44,662
KENTFIELD, Marin Co., Cal.
 Gymnasium (wood frame, roof trusses over gymnasium proper carried on steel columns) planting lawns and shrubbery, etc., at college grounds.
 Owner—Marin Junior College District.
 Architect—A. A. Cantin, 544 Market St., San Francisco.

Contractor—Young & Horstmeier, 461 Market St., San Francisco.
Structural Steel—Judson Pacific Co., 609 Mission St., San Francisco.
Reinforcing Steel—W. C. Hauck Co., 280 San Bruno Ave., S. F.
Lumber—Hess Lumber Co., San Rafael.

Rock and Sand—Congros Gravel & Fuel Co., San Rafael.
Excavation—P. H. McDougall, San Rafael.

Auto Driving—J. H. Baxter, 333 Montgomery St., San Francisco.
Plumbing—J. Beasley, San Anselmo.
 As previously reported, electrical work awarded to North Bay Electric Co., San Rafael, at \$2134. Heating and slating bids will not be called for before June, 1931.

Contracts Awarded.
DORMITORY Cost, \$180,520
VEST LOS ANGELES, Cal. Hilgard Avenue.

Three-story and basement Class A reinforced concrete dormitory (160x216 feet).
 Owner—Regents of The University of California.
 Architect—Douglas McLellan, Architects Bldg., Los Angeles and Geo. W. Kelham, 315 Montgomery St., San Francisco.

Contractor—Herbert M. Baruch Corp., Lincoln Bldg., Los Angeles.
Plumbing—Howe Bros., Los Angeles, at \$16,978.

Heating and Ventilating—Lohman Bros., Los Angeles, at \$20,355.
Electrical Work—Newbery Elec. Corp., Los Angeles, at \$12,188.

Steel Pan Contract Awarded.
ADDITION Cost, \$—
AN FRANCISCO, Fulton Street nr. Sanyan Street.

Three-story reinforced concrete addition to present building.
 Owner—University of San Francisco.
 Architect—Edward Eames, 253 Sacramento Street.

Contractor—Barrett & Hlip, 918 Harrison Street.
Steel Pans—Steefform Contracting Co., Monadnock Bldg.
 Sub-bids are wanted on all portions of the work.

As previously reported:
Concrete—Readymix Concrete Co., 675 Berry Street.

Vote Bonds to Finance on April 14
CHOO Cost, \$250,000
EBASTOPOL, Sonoma Co., Cal.
 Wo-story class C brick high school.
 Owner—Analy Union High School District.

Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton
Landscape Architect—Howard Gilkey, 337 17th St., Oakland.
 It was previously proposed to hold the election on April 7.
 report Feb. 18, 1931.

Plans Being Figured
AUDITORIUM Cost, \$25,000
SACRAMENTO, Sacramento Co., Cal.
 One-story and basement brick auditorium.
 Owner—St. Joseph's Academy.
 Architect—Harry Devine California State Life Bldg., Sacramento.

MILLBRAE, San Mateo Co., Cal.—J. W. Polderman, Millbrae Highlands, at approximately \$1,000, awarded contract by Millbrae School District to erect fencing at school grounds bounded by Magnolia, Millbrae, Lewis and Chacourne Aves.

Sub-Contracts Awarded.
MEMORIAL Cont. price, \$116,995
BERKELEY, Alameda Co., Cal. Campus of University of California.
 Two-story class A concrete Esleman Memorial Bldg. (student publishing building).

Owner—Regents of the University of California, Berkeley.
 Architect—G. W. Kelham, 315 Montgomery St., San Francisco.

Contractor—J. J. Grodem & Co., 1028 San Antonio Ave., Alameda.
Reinforcing Steel—Concrete Eng. Co., 1280 Indiana St., San Francisco.
Excavation—Aris-Knapp Co., 961 41st St., Oakland.

Tile—Malott & Petersen, 3221 20th St., San Francisco.
Glass and Glazing—East Bay Glass Co., 621 6th St., Oakland.

Mill Work—Pacific Mfg. Co., Monadnock Bldg., San Francisco.
Lumber—Sunset Lumber Co., 400 High St., Oakland.

Plastering—Chris Berg, 580 Market St., San Francisco.
Modeling—T. Tognelli, 475 Francisco St., San Francisco.

Marble—Ray Cook, foot of Powell St., Oakland.
Finish Hardware—Maxwell Hardware Co., 1326 Washington St., Oakland.

Cast Cement—T. Tognelli, 475 Francisco St., San Francisco.
Painting—Fatterson Bros., 494 36th St., Oakland.
Ornamental Iron—California Artistic Metal & Wire Co., 349 7th Street, San Francisco.

Roofing—Western Roofing Co., 178 S. Turk St., San Francisco.
 As previously reported, heating, plumbing and ventilating and electrical work awarded to The Turner Co., 329 Tehama Street, San Francisco at \$22,035.

BANKS, STORES & OFFICES

Plans Complete.
OFFICES Cost, \$—
LOS ANGELES, Cal. 2428 McPherson Street.

Two-story class A reinforced concrete offices (24 rooms; 60x120-ft.).
 Owner—Southern California Gas Co., 1700 Santa Fe Ave., Los Angeles.
 Engineer—J. W. Cleland, 1700 Santa Fe Ave., Los Angeles.

RED BLUFF, Tehama Co., Cal.—F. H. Horn, Red Bluff, awarded contract to repair fire damage to D. D. Dodson Building, involving carpentry work, plastering exterior and general store fixture work.

MERCED, Merced Co., Cal.—Stores of Merced Bakerite Bakery and Merced Bootery suffered \$15,000 fire loss March 15.

Suh Contract Awarded.
ADDITION Cost, \$10,000
SAN FRANCISCO, E Montgomery St. N Broadway.
 One-story addition to reinforced concrete building.

Owner—Firemans Insurance Co. of Newark, 60 Sansome St.
 Engineer—Ellison & Russell, Pacific Building.

Contractor—MacDonald & Kahn, Financial Center Bldg.
Roofing—Alta Roofing Co., 976 Indiana Street.

Plumbing—Chas. Brown, 666 Mission Street
Reinforced Steel—W. S. Wetenhall Co., 17th & Wisconsin Sts.
Concrete—Readymix Concrete Co., 575 Berry Street.

Elevators—Otis Elevator Co., 1 Beach Street.
Glass—Tyre Bros., 666 Townsend St.

Plans Being Figured.
OFFICES Cost, \$—
CHICO, Butte Co., Cal. 315-219 Wall Street.

One-story frame and stucco physicans' office building (52x66-ft.).
 Owner—Dr. N. T. Enloe, Chico.
 Architect—Not Given.

Plans provided for six office suites with reception room 20x30-ft. to be used in common. An X-ray room and rest rooms are included. Will be Spanish type with tile roof; California stucco exterior.

Sub Contracts Awarded
REPAIRS Cost, \$35,000
OAKLAND, Alameda Co., Cal., 1720 Broadway.

Repair fire damage to three-story and basement class C frame and brick loft building.

Owner—"Money Back" Smith, premises.
 Architect—Not Given.
 Contractor—F. A. Muller, 805 Syndicate Bldg., Oakland.

Plastering—Fred Driscoll.
Roofing—Western Roofing Co., 24th and Poplar Sts., Oakland.
Electric Wiring—Scott Buttner Co., 19 Grand Ave., Oakland.

Plumbing—Max Finzel, 2025 Hopkins St., Oakland.
 As prev. rep.

Lumber—E. K. Wood Lbr. Co., Frederick and King Sts., Oakland.

Contract To Be Awarded.
STORE Cont. Price \$6,700
BURLINGAME, San Mateo Co., Cal. California Drive.

One-story reinforced concrete store.
 Owner—F. Peterson, Burlingame.
 Architect—E. L. Norberg, 530 Market St., San Francisco.

Contractor—Moody J. Henry, 132 Hancock, Burlingame.
 Next lowest bid was submitted by G. W. Williams Co., Burlingame, at \$7,350.

Prospective Bidders.
BANK Cost, \$75,000
SAN MATEO, San Mateo Co., Cal.—B St. and Third Ave. (110 feet frontage).

One-story concrete bank.
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of America Bldg., Eddy and Powell Sts., San Francisco.

Following contractors have secured plans:
 Geo. W. Williams, 2807 Adeline St., Burlingame.
 A. V. Johnson, Harper Ave. Beresford, San Mateo.
 Geo. H. Arthur, 16 W. Santa Inez, San Mateo.

H. C. Vensano & Co., 58 Sutter St., San Francisco.
 Louis N. Pollard, 232 Franklin St.

Redwood City
H. H. Larsen Co., 64 South Park, San Francisco.
Carl Bassett, 826 Walnut, San Mateo.
L. Dioguardi, 30 West Popular Ave. San Mateo.
Oscar L. Cavanaugh, 432 Occidental, San Mateo.
Harry Kline, 118 Twelfth Street, San Mateo.
E. A. Born Bldg. Co., Park Place Capuchino Manor, San Bruno.
Frank Ferrea, 712 5th St., San Mateo
Young & Horstmeier, Sheldon Bldg., San Francisco.
Chas. W. Heyer, Mills Bldg., San Francisco.
Jessie D. Hannah, 251 Kearny St. Vogt and Davidson, 185 Stevenson St., San Francisco.
MacDonald & Kahn, Financial Center Bldg., San Francisco.
San Francisco
Levey & Spivock, Shell Oil Bldg., San Francisco.
F. Amoroso & Sons, Wallace and Keith Aves., San Francisco.
Delucchi & Sons, 3007 San Bruno Ave., San Francisco.
Jacks & Irvine, Call Bldg., San Francisco.
Bids are to be opened March 27th, 1931.

Preparing Working Drawings
STORE Cost \$150,000
BURLINGAME, San Mateo Co., Cal. Laguna Ave. and Broadway.
One-story reinforced concrete store (3 stores).
Owner—Martin Stelling and E. L. Gould, 155 Montgomery St., E. F. Architect—Eitz, Winter & Maury, 210 Post St., San Francisco.
Plans will be ready for bids in about 30 days.

Plans Being Prepared.
ALTERATIONS Cosht. \$—
SAN JOSE, Santa Clara Co., Cal. E. S-First St., bet. San Fernando and Antonio Sts.
Alterations and additions to two-story building.
Owner—Zukors, Inc., Market St. near Fifth St., San Francisco.
Architect—Nathan Steinberg (Zukor's Stores, Inc.), 3226 Winter St., Los Angeles.
It is expected to start construction about May 1st.

Wrecking Contract Awarded.
BANK Cost \$60,000
LOS GATOS, Santa Clara Co., Cal. Main St. and Santa Cruz Avenue 52x100 feet).
One-story reinforced concrete bank with tile roof (ornamental stone and acoustical plaster).
Owner—Bank of America.
Architect—H. A. Minton, Bank of America Bldg., Eddy and Powell Sts., San Francisco.
Contractor—Jacks and Irvine, 74 New Montgomery St., San Francisco.
Wrecking—S. Jose Wrecking & Building Supply Co., San Jose.
As previously reported, structural steel awarded to Judson-Pacific Co., 609 Mission St., San Francisco.
There will be two stores, 20x72 feet, in connection with the building. Sub-bids are being taken on other portions of the work.

Sketches Prepared.
MARKET Cost \$20,000
SANTA ROSA, Sonoma Co., Cal. One-story reinforced concrete open-air market.
Owner—F. Rosenberg, 500 4th Street, Santa Rosa.
Architect—S. Helman, 605 Market St., San Francisco.

Sub-Contracts Awarded.
STORE Cost \$100,000
MODESTO, Stanislaus Co., Cal. 922-924 Tenth Street.
Two-story and basement class C brick store (60x140-ft.).
Owner—S. H. Kress Co., Western Pacific Bldg., Los Angeles.
Plans by Eng. Dept. of Owner.
Contractor—K. E. Parker, 135 South Park, San Francisco.
Excavation—Gannon & McCarthy, Stockton.
Dumb Waiters—Carl Jorgensen, 604 Mission St., San Francisco.
Electrical Work—Eddy Electric Co., 309 E. Weber St., Stockton.
Glass—Habenicht & Howlett, 529 Clay St., San Francisco.
Hardwood Floors—McLean Hardwood Floor Co., Sutter and Hazleton, Stockton.
Marble—American Marble Co., 25 Columbus Square, San Francisco.
Metal Ceilings—Berger Mfg. Co., 1120 Mission St., San Francisco.
Metal Windows—Soule Steel Co., Rialto Bldg., San Francisco.
Mill Work—Elec. Planing Mill, Monroe and Hazleton, Stockton.
Ornamental Iron—Federal Ornamental Iron Works, 16th and San Erano, San Francisco.
Painting—A. A. Zelinsky, 4420 California St., San Francisco.
Plumbing—J. F. Dickinson, Modesto.
Lathing and plastering bids are now being taken.
As previously reported, structural steel awarded to McClintic-Marshall Co., 2650 Bryant St., San Francisco.
Cement and wood floors, plate glass, metal store fronts, etc.

Sub-Contracts Awarded.
STUDIO Cost \$6,000
SAN FRANCISCO, 67 Sutter Street.
Construct broadcasting studio.
Owner—National Broadcasting Co.
Architect—Wm. C. Ambrose, 605 Market Street.
Contractor—Clinton-Stephenson Const. Co., Monadnock Building (without competition).
Plastering—James Smith, 271 Minna Street.
Brick Work—William Rainey & Son, 323 Clementina St.
Mantels—Theo. Binner, 417 14th St.
Acoustical Work—Wayland Co., 563 Second Street.
Mill Work—Empire Planing Mill, 750 Bryant Street.
Lumber—Loop Lumber Co., Central Basin.
Lathing—J. A. Evans, 4331 19th St.

Segregated Figures Being Taken.
STORE Cost approx. \$10,000
MARTINEZ, Contra Costa Co., Cal. One-story steel frame and brick store (60x140-ft.).
Owner—Withheld.
Architect—L. H. Ford, 1435 Harrison St., Oakland.

Contract Awarded.
BANK, ETC Cost \$80,000
PHOENIX, Ariz. SE Central Ave. and Monroe Street.
Eleven-story and basement class A steel frame, terra cotta and concrete bank and offices (138x150 ft.).
Owner—Valley Bank & Trust Co.
Architect—Morgan, Walls & Clements, Van Nuys Bldg., Los Angeles.
Contractor—L. E. Dixon Co., 609 S. Grand Ave., Los Angeles.

THEATRES

Completing Plans.
THEATRE Cost \$90,000
WHITTIER, Los Angeles Co., Cal. Greenleaf St. near Philadelphia St.
Reinforced concrete Class A theatre (140x80 ft.) to seat 1000.
Owner—A. Wardman.
Architect—David S. Bushnell, Warner Bros. Downtown Theatre, Los Angeles.

Contract Awarded.
AMPHITHEATRE Cost \$150,000
HOLLYWOOD, Los Angeles Co., Cal. Highland and Cahuena Aves.
Reinforced concrete amphitheatre.
Owner—Pilgrimage Play Assn.
Architect—Wm. Lee Woollett, Architects' Bldg., Los Angeles.
Construction has been started.

Contract Awarded.
ALTERATIONS Cost \$50,000
WATSONVILLE, Santa Cruz Co., Cal. Remodel Theatre.
Owner—Fox-California Theatre, (Douglas Graham, Mgr), Watsonville.

Private Plans.
Contractor—Alfred J. Hopper, 1763 Pleasant Valley Ave., Piedmont.
Work will involve complete remodeling and redecorating in addition to a Neon marquee, Spanish type organ lot, carpets, drapes and new seating.

Reinforcing Steel Contract Awarded.
THEATRE Cost \$100,000
SAN MATEO, San Mateo Co., Cal. Two-story Class C concrete and steel theatre and store (to seat 1000; contain four stores).
Owner—W. S. Leadley, 207 2nd St., San Mateo.
Architect—S. Chas. Lee, 2404 W. 7th St., Los Angeles.
Contractor—Leadley & Wiseman, 207 Second St., San Mateo.
Reinforcing Steel—Soule Steel Co., Rialto Bldg., San Francisco.
Other awards will be made shortly.

Plans Being Prepared.
THEATRE Cost \$150,000
GLENDALE, Los Angeles Co., Cal. Glendale Blvd. near Davis St.
Theatre (to seat 900) (260x156 feet)
Owner—Davis-Glendale Co. (Walter E. Davis, President).
Architect—Alfred F. Priest, Fay Bldg., Los Angeles.

WHARVES AND DOCKS

Plans Being Figured — Bids Close
March 26, 2 P. M.
SHED Cost \$125,000
SAN FRANCISCO, Pier No. 15.
Shed and bulkhead including (150x500 ft.; steel frame construction with concrete walls).
Owner—State Board of Harbor Commissioners.
Engineer—Frank White, Ferry Bldg., San Francisco.
Sub-structure is near completion.
Total cost of project, \$700,000.

LOS ANGELES, Calif.—Until 10 A. M. March 25, bids will be received by general manager, Los Angeles harbor department at Room 112, City Hall, for creosoted piles and lumber for Fish Harbor wharves and creosoted piles and switch ties for Berths 144-146. Specification No. 876. This specification includes approx. 4000 lin. ft. of 8-in. creosoted fir piles, approx. 22,700 lin. ft. of 16-in. creosoted fir piles, approx. 18,600 b. ft. of 16-in. treated fir timber and approx. 25,600 b. ft. of 8-in. treated ties with a 55-45 per cent creosoted petroleum mixture. Bidding data obtainable from harbor engineer at San Pedro. C. F. Nicholson, acting general manager.

Plans To Be Prepared.
PIER EXTENSION Cost \$1—
SAN FRANCISCO. Waterfront (Mission Rock).
600-ft. extension to Pier No. 50.
Owner—State Harbor Commission, Ferry Bldg.
Engineer—F. G. White, Ferry Bldg.

MISCELLANEOUS SUPPLIES AND MATERIALS

SALINAS, Monterey Co., Calif.—W. A. Dontanville, Salinas, at \$743.03 awarded contract by city council to construct tennis court in Allisal Park. R. G. Oakley, only other bidder at \$698.20 failed to produce certified check with bid as required.

PORTLAND, Oregon—Bids will be asked shortly by U. S. Engineer Office, Portland, to construct four steel derrick scows for operation in connection with the pipeline dredges Wakankum and Multnomah. Each of the scows is to be 50 feet in length, 22 feet beam and 3 feet depth of hold. Two are to be equipped with gasoline winches, while the others will be fitted with steam winches, transferred from wooden derrick scows at present in commission.

STOCKTON, San Joaquin Co., Cal. I. E. Toothache, 1131 S Hunter St., Stockton, at \$1,498 awarded contract by city council to construct comfort station in the American Legion Park.

MONTEREY, Monterey Co., Cal.—City council contemplates bond issue for \$3500 to finance construction of tennis courts on a site yet to be selected.

SACRAMENTO, Cal.—See "Parks & Playgrounds," this issue. Bids opened by City Council to construct tennis court.

SAN FRANCISCO—Bids will be advertised about March 19th by State Board of Harbor Commissioners for raising bulkheads on streets on the Embarcadero between Piers 14 and 24. Frank White, chief engineer, Ferry Bldg. Bids will probably be opened April 9.

SALINAS, Monterey Co., Cal.—W. A. Dontanville, Salinas, at \$743.03 awarded contract by city council to construct tennis court in city park at Front and Allisal Sts.

Following is a complete list of bids:

R. G. Oakley.....	698
W. A. Dontanville.....	743
Granite Construction Co.....	783
W. E. Green.....	824
S. C. Carlsen.....	859

HEALDSBURG, Sonoma Co., Cal.—Basalt Rock Co., Napa, authorized by the county supervisors to establish a gravel plant on the Russian river near Healdsburg. Company will construct an aerial tramway over Balhache avenue, connecting the gravel bar with the Northwestern Pacific R. R., right-of-way. Approximately \$120,000 will be spent in construction and equipment.

Sub-Contracts Awarded.
MORTUARY Cont. Price, \$12,217
MOUNTAIN VIEW, Santa Clara Co., Cal. NE Yosemite and Castle Sts. Two-story and basement frame and stucco mortuary (56x90 feet).

Owner—George Boardley.
Plans by E. Reichel, 393 University Ave., Palo Alto.
Contractor—The Minton Co., 243 Hamilton Ave., Palo Alto.

Roller Screens—Arthur Metal Products Co., 111 Eutter St., San Francisco.

Glass and Glazing—Coast Glass Co., 611 Emerson St., Palo Alto.

Excavating—San Jose Excavating Co., 123 S-Third St., San Jose.

Electric Work—F. A. Pritchett, Mt. View.

Steel Sash—Soule Steel Co., 330 16th St., San Francisco.

Cast Cement—The Urn Shop, 1040 The Alameda, San Jose.

MISCELLANEOUS SUPPLIES AND MATERIALS

QUINCY, Plumas Co., Calif.—Until April 6, 10 A. M., bids will be received by Wm. F. Werner, county clerk, to furnish 10,000 heart cedar posts, size 6 inches by 6 inches by 7 feet long; to be delivered on highway in the vicinity of Beckwith.

FRESNO, Fresno Co., Cal.—Until April 9, 5 p. m., bids will be received by L. L. Smith, secretary, Board of Education, to furnish and deliver 19 typewriters, allowance to be made for 19 typewriters no longer required. Certified check or bidder's bond, 10% required with bid. Further information obtainable from secretary, 2123 Fresno St., Fresno.

BUSINESS OPPORTUNITIES

Names and addresses of persons of first concern in the following opportunities will be furnished on request to Business Opportunity Department, Daily Pacific Builder, 547 Mission St., San Francisco or Phone Garfield 7344.

20923—Explosives, San Francisco. Association inquires for list of firms interested in importation of explosives for mining purposes.

20926—Bentwood Furniture, San Francisco. Manufacturers of bentwood furniture at Pecky, Czechoslovakia, are looking for a local market.

Jacob Klec, president, American Fluoresite Co., 27 East Water Street, Cincinnati, O., is interested in forming a connection with an individual or firm in this city to handle Duromit—a water-proofing, acid proofing and densifying admixture for concrete. Party should have knowledge of concrete and how to lay floors, and also be able to give estimates on jobs.

L. Schuler, 204 Roberts Bauner Bldg., El Paso, Texas, wishes to secure a few good lines for distribution in Arizona, West Texas and New Mexico.

B. J. McKay, McKay-Bensing Co., Lewiston Hotel, Denver, Colo., desires to get in touch with manufacturers that are desirous of obtaining the services of experienced salesmen to represent them exclusively in the intermountain states.

E. S. McGarvey, 516 Arrott Bldg., Pittsfield, Pa., is interested in securing a man with a moderate amount of capital and ability to take over the State rights for the distribution of Nu-Life Enamel.

Empire Metal Cap Co., 254 36th St., Bush Terminal Bldg., Brooklyn, New York, wants a representative in this district for line of metal caps for glass containers.

Kline Vacuum Cleaner Co. (attention E. M. Kline), 621 Johnson Ave., Cleveland, Ohio, rebuilders of vacuum cleaners, desires to secure representatives in this district.

ELECTRIC WELDING CHEAPER THAN RIVETS

Following several years of experience in "noiseless" steel construction by electric welding the Austin Company of Cleveland, Ohio, engineers and builders, announce that for the first time in building history their cost of this type of construction is now below that of the older riveted type.

Increasing demand for noiseless building has stimulated research as well as the volume of such building with the result that costs have been brought sharply lower, the company's announcement says. This reduction, it is declared, will establish a further reduction in building costs, already at the lowest level in a decade.

STOCKTON BUILDERS PLAN HOMES EXHIBIT

A Better Homes Show will be held in the Civic Memorial Auditorium at Stockton April 17 to 21. It is announced by Morris Miller and Carl Armstrong of the Stockton Realty Board.

The show, which will be held during the week preceding Better Homes' Week, will be non-profit in nature and its purpose will be to promote home construction and improvement in Stockton.

There will be space in the auditorium for 120 exhibits. Educational displays will be an added feature and entertainment programs will be added to lectures on home building and home economics.

Endorsement was given the show and co-operation was voted by the Realtors, the Architects' Association and Stockton Builders' Exchange.

The committee in charge of arrangements consists of L. S. Peletz, president of the Builders' Exchange, chairman; John M. Pengelly, vice-president, and W. E. O'Keefe, past president of the Builders' Exchange; J. U. Cloudsley, president of the Architects' Association; W. H. Hobin and N. M. Parsons of the Realty Board.

ENGINEERING AWARDS SLACKEN IN FEBRUARY

Awards of engineering construction contracts in February were at the rate of 45 million dollars per week, compared with 47 in January and 49 millions in February, 1930, according to Engineering News-Record. For the first two months of the year, the weekly rate has been as follows: 1931, 46 millions; 1930, 48 millions; and 1929, 85 millions.

Comparison with the January weekly rate shows a gain in building—24 per cent in industrial and 5 per cent in buildings other than industrial. Sectionally, there were substantial gains in the South and throughout the entire West, while New England and the Middle Atlantic states sustained decreases.

As compared with the same month last year, February showed a gain of 7 per cent in public works. Sectionally the same situation existed in the chief classifications, advances in percentages were as follows: federal government, 82; streets and roads, 27; public buildings, 20; water-works, 10. Declines were as follows: Bridges, 16; commercial buildings, 40; sewers, 30; industrial buildings, 13; excavating, 8.

Strict regulations to guard gasoline and oil tank trucks from fire are contained in an ordinance proposed to the Board of Supervisors by Frank P. Kelly, San Francisco fire marshal. Operations would be required to secure permits from the marshal. This is the only city without such an ordinance, according to Kelly.

Last month Chicago voted bonds of \$54,000,000, of which \$2,500,000 is to finance the widening of North State Street to permit construction of a subway; \$30,000,000 for sewers and sewage works; \$12,100,000 for boulevards, a viaduct and shore protection and park improvements, and \$3,000,000 for park extension and development.

Directors of the Santa Cruz Portland Cement Company on last Tuesday declared the regular quarterly dividend of \$1 per share, payable April 1 to stockholders of record March 21.

Engineering News Section

BRIDGES

SANTA BARBARA, Cal.—Until 10 A. M., April 6, bids will be received by the Santa Barbara county supervisors for the construction of a reinforced concrete bridge over the San Antonio Creek, in the Third Road District; estimated cost, \$5200. Plans obtainable from Owner. H. O'Neill, county engineer.

STOCKTON, San Joaquin Co., Cal.—Until March 30, 11 A. M., bids will be received by Eugene D. Graham, county clerk, to construct culvert at Woodbridge Irrigation District's canal and Harney Lane in Road District No. 2. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from Julius Manthey, county surveyor.

SAN FRANCISCO.—Healy-Tibbitts Const. Co., 54 Pine St., at \$52,000 awarded contract by Golden Gate Bridge and Highway District, Alexander Bldg., for additional borings in connection with the \$35,000,000 Golden Gate Bridge on the San Francisco side to determine the location of piers.

BAKERSFIELD, Kern Co., Calif.—Until March 30, 11 A. M., bids will be received by F. E. Smith, county clerk, to construct timber bridge on the Bakersfield-Glennville Highway over Poso Creek, involving:
 (a) 15 cu. yds. excavation;
 (b) 30,755 ft. timber, board measure, including all incidentals.
 Certified check 10% payable to the Chairman of the Board of Supervisors required with bid. Plans obtainable from County Surveyor J. R. Thornton.

SAN LUIS OBISPO COUNTY, Cal.—Wm. Lane, San Luis Obispo, at \$1,247 submitted low bid to District Engineer, State Highway Commission, San Luis Obispo, to repair bridge across the Estrella River about 12 miles east of Paso Robles, consisting of one 154-ft. through steel truss span.

ORANGE COUNTY, Cal.—State Highway Commission has filed application with the War Department seeking approval of plans for proposed trestle highway bridge across the northerly arm of Newport Bay, about 700 feet southerly of the existing state highway bridge; the proposed bridge to have a removable steel span affording 40 feet clear width of channel and clear height of 18 feet at mean lower low water and 13 feet at mean high water; the over all width of the bridge to be 50 feet.

VENTURA, Ventura Co., Cal.—Until 10 A. M., April 7, bids will be received by the Ventura County Supervisors to construct four timber bridges with necessary earth fill approaches and bank protection work on the Grimes Canyon Road, involving:
 (1) 26 75 M. ft. E. M. structural redwood;
 (2) 26 75 M. ft. E. M. structural Oregon pine;
 (3) 1.7 M. ft. E. M. surfaced Oregon pine;
 (4) 0.5 M. ft. E. M. surfaced redwood;
 (5) 3000 lbs. reinf. steel;
 (6) 15,000 cu. yds. earthwork embankment;
 (7) 55 ft. 18-in. culvert pipe;

(8) 1700 lin. ft bank protection;
 (9) 28.5 cu. yds. paving concrete.
 C. W. Pettit, county surveyor L. E. Hallowell, county clerk

EL CERRITO, Contra Costa Co., Cal.—Until March 30, 3 P. M., bids will be received by city trustees to construct concrete pipe culvert in Liberty St., bet. Schmidt and Fink Lanes. Estimated cost \$468. Plans obtainable from H. D. Chapman, city engineer.

SAN MATEO, San Mateo Co., Cal.—Roy Lind, 54 Stanton St., San Francisco, at \$570 awarded contract by city council to construct concrete pipe culvert including excavation and back fill in Twenty-eighth avenue, approximately 1600 ft. west of El Camino Real. Following is a complete list of bids received:
 Roy Lind\$570
 J. T. Lawlor 634
 H. E. Connor 673
 Sam Soto Jr. 704

OAKLAND, Calif.—County Surveyor Geo. A. Posey preparing plans for a bridge over San Leandro Creek in Park Street, formerly Estudillo Ave., in San Leandro. Estimated cost \$30,000.

REDWOOD CITY, San Mateo Co., Cal.—See "Streets and Highways," in this issue. City contemplates extension of Main Street over Redwood Creek to connect with Bayshore Highway, including construction of bridge.

CARLAND, Cal.—Until April 7, 10-30 A. M., bids will be received by Geo. E. Gross, county clerk, to construct a reinforced concrete multiple box culvert on the Alvarado-Centerville Rd.; estimated cost \$8,800. Plans on file in office of clerk. Geo. A. Posey, county surveyor.

NAPA, Napa Co., Cal.—J. P. Lawler, 372 7th Ave., San Francisco, at \$15,243, submitted the low bid to the directors of Joint Highway District No. 7, to construct a steel and concrete bridge on the Healdsburg-Calistoga Highway, 10 miles east of Healdsburg. Project involves:
 (1) 463 cu. yds. class A concrete;
 (2) 13 cu. yds. class E concrete;
 (3) 84,700 lbs. reinforcing steel;
 (4) 300 cu. yds. structure excav.;
 (5) 7000 cu. yds. roadway excav.;
 (6) remove old bridge.

Following is a complete list of the bids received, all being taken under advisement until March 23:
 J. P. Lawler, San Francisco.....\$15,243
 White & White, Santa Rosa..... 15,334
 A. T. Howe, Santa Rosa..... 16,824
 W. C. Colley, Berkeley..... 17,383
 W. L. Proctor, Santa Rosa..... 17,177
 C. A. Bruce & Son, Pleasanton 18,269
 Petaluma Constr. Co..... 16,505
 W. H. Hauser, Oakland..... 19,511
 R. Press Smith, Santa Rosa..... 15,851
 Harry Thorsen, St. Helena..... 18,245
 J. W. Kristich, Knightsen..... 18,245
 Hudson & Branagh, Oakland..... 19,884
 M. A. Jenkins, Sacramento..... 16,210
 F. J. Main, Fairfax..... 19,858
 T. W.'Brien, San Francisco..... 18,033
 Thermotte Constr. Inc..... 15,394
 Frank Bryant, San Francisco..... 15,899
 Peter McHugh, San Francisco..... 18,495

SAN BERNARDINO COUNTY, Cal.—Following bids received March 18 by State Highway Commission to construct bridge over Lytle Creek about 2 miles west of San Bernardino, consisting of five 35-ft. steel string spans with concrete deck on steel pile bents:
 Rotinson Roberts Co., L. A.....\$33,313
 Byerts & Dunne, L. A..... 33,605
 Cberg Bros., L. A..... 35,509
 W. H. McCune, Monrovia..... 41,463
 Bids held under advisement.

DREDGING, HARBOR WORKS & EXCAVATIONS

MONTEREY, Monterey Co., Cal.—City council contemplates bond issue for \$32,000 for breakwater shore connections and necessary rights-of-way.

MARYSVILLE, Yuba Co., Cal.—R. P. Easley, Antioch, at \$1175 cu. yd., submitted low bid under Circular Proposal No. 31-229, Specifications No. 3085, to U. S. Engineer Office, Sacramento, for raising and enlarging of an existing levee along the Sacramento Northern Railway, near the Feather River, approximately 1 mile southerly and downstream from the town of Marysville, involving 11,000 cu. yds. Complete list of bids, all taken under advisement, follows:
 R. P. Easley, Antioch.....\$1175
 Heinstreet & Bell, Marysville..... 12
 Miles J. Treaster, Sacramento..... 14

STOCKTON, San Joaquin Co., Cal.—Until March 27, 3 P. M., under Circular Proposal No. 31-265, Specifications No. 3083, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, for excavating approximately 216,000 cu. yds. of material and constructing spoil retaining levees on Venice and Mandeville Islands, in the San Joaquin river delta, about 16 miles northwest of Stockton. Specifications obtainable from above office.

SACRAMENTO, Cal.—Until March 27, 3 p. m., under Circular Proposal No. 31-266, Specifications 3025, bids will be received by U. S. Engineer Office, California Fruit Bldg., for raising the existing levee along the easterly side of Yolo By-Pass in Reclamation District No. 785, involving 180,000 cubic yards. Specifications obtainable from above office

STOCKTON, San Joaquin Co., Cal.—Following awards of contract made by U. S. Engineer Office, Sacramento, in connection with dredging of approximately 4,226,000 cu. yds. of material in the Stockton 25-ft. channel prism, from the mouth of Mormon Channel in the City of Stockton to the mouth of Burns Cut-Off, in the San Joaquin river:
 Hydraulic Dredging Co., Central Bank Bldg., Oakland, at 16c cu. yd. for Part 1, involving dredging of the turning basin and of part of the channel, with removal of approximately 2,232,000 cu. yds. of material.
 San Francisco Bridge Co., Nevada Bank Bldg., San Francisco, at 16c cu. yd. for Part 2, involving dredging from the western end of Part No. 1 to a point approximately three and a half miles from Stockton. In this approximately 1,768,000 yards of material will be moved.
 Complete list of unit bids received

on this work published in issue of February 17.

MONTEREY, Monterey Co., Cal.—Bids will be asked in the immediate future by the U. S. Army Engineers to construct the \$500,000 breakwater in Monterey Harbor. A fund of \$200,000 has been appropriated by Congress for the first year's work. This money is now available and will be used to finance that portion of the work for which bids are to be asked.

IRRIGATION PROJECTS

TURLOCK, Stanislaus Co., Calif.—Until April 6, 2:30 P. M., bids will be received by Anna Sorensen, secretary, Turlock Irrigation District, for improvements in District No. 65, involving:

Schedule No. 1

12,300 sq. ft. 2-in. concrete canal lining.

Schedule No. 2

6 concrete structures, involving 8.0 cu. yds. concrete. Certified check or cashier's check 10% payable to district required with bid. Specifications obtainable from secretary.

TURLOCK, Stanislaus Co., Calif.—Until April 6, 3 P. M., bids will be received by Anna Sorensen, secretary, Turlock Irrigation District, for improvement in District No. 72, involving:

Schedule No. 1

29,400 sq. ft. 2-in. concrete canal lining.

Schedule No. 2

9 concrete structures, involving 10.55 cu. yds. concrete. This work will be paid for in cash by property owners. Certified or cashier's check 10% payable to district required with bid. Plans on file in office of secretary.

TURLOCK, Stanislaus Co., Cal.—Until April 6, 3:30 p. m., bids will be received by Anna Sorensen, secretary, Turlock Irrigation District, for improvement in District No. 77, involving 705 lin. ft. 30-in. dia. concrete pipe. Certified check or cashier's check, 10% payable to district required with bid. Plans on file in office of secretary.

TURLOCK, Stanislaus Co., Calif.—Until April 6, 2 P. M., bids will be received by Anna Sorensen, secretary, Turlock Irrigation District, for improvements in District No. 70, involving:

Schedule No. 1

14,490 sq. ft. 2-inch concrete canal lining.

Schedule No. 2

1 concrete structure, involving 1.4-u. yds. concrete.

Schedule No. 3

5 concrete structures, involving 5.16 u. yds. concrete. Cash payment will be made for this work by property owners. Certified check or cashier's check 10% payable to district required with bid. Plans a file in office of secretary.

MACHINERY AND EQUIPMENT

SAN FRANCISCO.—Fred Boeken, superintendent of the Municipal Railway System, has recommended to the board of Public Works the purchase of two new 25-passenger buses for service on Monterey Blvd. One bus to replace a vehicle now in use and the other to afford better service.

SAN FRANCISCO.—H. C. Thompson, 155 Dolores St., at \$329.40 awarded contract by State Harbor Commis-

sion for repairing Derrick A. Following is a complete list of bids: H. C. Thompson.....\$ 229 Bruer & Slemmer..... 638 Crowley Launch Co..... 845 General Eng. Drydock Co..... 1,083 24

MODESTO, Stanislaus Co., Cal.—City Engineer Frank Ross will seek bids to finance purchase of a high power tree spray machine; estimated cost from \$1000 to \$1500.

IMPERIAL, Imperial Co., Cal.—Until 7:30 P. M., April 8, bids will be received by the Imperial City Council for one 1½-ton or 2-ton truck, 4 or 6 cylinder, 130 to 160 inch wheelbase, new, with usual factory guarantee. H. A. Conger, city clerk.

HEALDSBURG, Sonoma Co., Cal.—Basalt Rock Co., Napa, authorized by the county supervisors to establish a grade in the Russian river near Healdsburg. Company will construct an aerial tramway over Bailhache avenue, connecting the gravel har with the Northwestern Pacific R. R., right-of-way. Approximately \$120,000 will be spent in construction and equipment.

SACRAMENTO, Cal.—Until March 23, 10 A. M., under Requisition No. 8574, bids will be received by State Bureau of Purchases, Sacramento, to furnish and deliver Williams, Colusa County, one 1½-yard straight Diesel engine driven heavy duty power shovel with a working weight of approximately 30,000 lbs. Specifications and additional bidding data are on file in the office of Daily Pacific Builder and may be inspected by those interested.

SANTA CLARA, Santa Clara Co., Cal.—Until April 6, 8 P. M., bids will be received by A. J. Cronin, city clerk to furnish and deliver a motor driven street sweeper.

RAILROADS

SAN FRANCISCO.—Application has been filed with the Board of Supervisors by the Market Street Railway Co., 58 Sutter St., to extend the Turk Street line into the Richmond district for a distance of about 3 miles at a cost of \$400,000. The line would be extended from Turk and Divisadero Sts. to Balboa St., thence to a point midway between 20th and 31st Aves.

BOULDER CITY, Nev.—Construction of about 25 miles of standard gauge railway as part of the contractor's plant and equipment at the site of the dam will be started at once by Six Companies, Inc., Financial Center Bldg., San Francisco, according to an announcement March 11 by Felix Kahn, treasurer.

FIRE EQUIPMENT

SAN FRANCISCO.—Hercules Equipment & Rubber Co., 11 Mission St., at \$112 per foot submitted lowest bid to city purchasing agent to furnish and deliver 12,000 feet of rubber water hose for the Park Commissioners. Following is a complete list of the bids: Hercules Equip. & Rubber Co., \$112 Pacific Goodrich Rubber Co., 125 Pioneer Rubber Mill..... 113 Dunham, Kerrihan & Hayden..... 1355 Marshall, Newell Supply Co..... 116 U. S. Rubber Co..... 123 Goodyear Rubber Co..... 115 Quaker City Rubber Co..... 175 American Rubber Mfg. Co..... 18 A. J. Gleasner..... 2173 Bids held under advisement.

LOS GATOS, Santa Clara Co., Cal.—Town trustees have authorized the

purchase of 250 ft. of hose for fire department from the Pioneer Rubber Mills, Pittsburg, Calif., at 91½¢ ft.

COALINGA, Fresno Co., Cal.—Fire Chief Aaron Baker authorized by city council to purchase 100-ft. of 1½-in. fire hose and two auxiliary nozzles.

RESERVOIRS AND DAMS

KENO, Oregon.—California-Oregon Power Co., Portland, will commence construction shortly on a regulating dam on the Klamath River at Keno. The dam will be located about 800 ft. below the highway bridge at Keno and will cost \$100,000; will be about 8-ft. high and 1,200-ft. long, including the earth embankments on each side. Will be needle type, consisting of timber cribs with continuous fill and concrete earth fill.

PLACERVILLE, El Dorado Co., Cal.—Construction halted on Webster Creek Dam project for El Dorado County Irrigation District. See article on page one of this issue.

HAWTHORNE, Nev.—In addition to those previously reported, following are prospective bidders to construct concrete dam in connection with Naval Ammunition Plant at Hawthorne, under Specification No. 6165, bids to be opened by the Bureau of Yards & Docks, Navy Department, Washington, D. C., March 25: Gist and Bell, Arcadia, Calif. Ryberg Bros., 206 Electric Railway Bldg., Salt Lake City, Utah. Estes and Rogers Const. Co., 111 W. Washington St., Chicago, Ill. Raymond Concrete Pipe Co., Washington, D. C.

PANAMA CANAL ZONE.—The general purchasing officer, the Panama Canal, Washington, will issue invitations for bids about July 1, 1931, for the construction of Madden Dam and auxiliary works, which are located on the Chagres River, in the Canal Zone. A preliminary announcement containing a brief description of the principal features of the work, a tentative schedule of items and five drawings typical of the work contemplated are available for distribution to prospective bidders. The announcement is issued at this time in order to provide ample time for the inspection of the site and investigation of local conditions. The project includes a straight gravity dam, a hydro-electric power plant and a number of earth, gravel and rockfill embankments. The gravity dam will be about 250 feet high, 1,200 feet long and will contain about 531,000 cubic yards of concrete. The spillway is located in the gravity section of the dam and is regulated by four structural steel drum gates, each 100 feet long by 18 feet high. Six sluice openings 5 feet 8 inches wide by 10 feet high are located at river level in the spillway section under the drum gates. The hydro-electric power plant consists of three units. The structure and superstructure will be constructed by the contractor, but the generating equipment will be installed by the government forces. Two 84-in. needle valve outlets will be located in the power house. The fourteen embankments are all comparatively low saddle dams or dykes and contain an aggregate volume of 948,000 cu. yds. of earth, gravel and rockfill. Copies of the announcement may be obtained from the general purchasing officer, the Panama Canal, Washington, D. C.

PIPE LINES, WELLS, ETC.

KETTLEMAN HILLS, Fresno Co., Calif.—Western Pipe & Steel Co. of California, 444 Market St., San Francisco, at approx. \$1,500,000 awarded contract by Southern Fuel Co. to furnish steel pipe in connection with na-

tural gas pipe line from Kettleman Hills to Long Beach, a distance of approximately 210 miles. Pipe will be electric welded 26-in. diameter.

ALTURAS, Modoc Co., Cal.—Until March 25, 6 P. M., bids will be received by R. E. Henderson, clerk, Davis Creek Public Cemetery District, to drill and case a 6-inch water well. District has \$800 available for this work. Further information obtainable from clerk of district.

FRESNO, Fresno Co., Cal.—M. C. Cowan, Sanger, at \$866.57 awarded contract by Fresno County Water Works District No. 1, for drilling and casing two wells. Perry F. Brown, engineer for district, 512 Griffith-McKenzie Bldg., Fresno.

CAKLAND, Cal.—Until March 25, 8 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 Sixteenth St., to furnish and deliver 22,000 lin. ft. of 3/4-inch thickness 30-inch diameter electric welded sheet steep pipe for distribution system. Specifications obtainable from Room 33 at 512 16th Street.

LOS ANGELES, Cal.—Bids for the construction of a 26 mile section of 26-in. pipe line from Glendale to Long Beach are being taken by the Southern Fuel Co. Work on this section is planned to start about April 1. Plans and specifications are being completed by E. M. Laulhere, Superintendent of Construction, room 1108, 740 South Broadway. Bids for the plans may be secured within the next few days. This contract will be for trenching, laying, welding and backfilling, the pipe being furnished by the company. Other sections of the line, which is approximately 210 miles terminating at the Kettleman Fields, will be awarded so that work can start May 1, July 1, and Aug. 1, respectively. An order for about 76 miles of steel pipe has been placed with the Western Pipe & Steel Co. and another order with the A. O. Smith Co., Milwaukee. Welding of the Smith pipe will be done by electric welding, services for which are furnished by the manufacturer.

OAKLAND, Cal.—Steel Tank & Pipe Co., 1100 4th St., Berkeley, at \$2.80 lin. ft. (\$16,800) submitted low bid to East Bay Municipal Utility District to furnish and deliver 6,000 lin. ft. 3/4-inch thickness 20-inch diameter electric welded sheet steel pipe for distribution system. Steel, Inc., at \$3.15 lin. ft. (\$18,900) only other bidder. Bids taken under advisement until Mar. 16.

KETTLEMAN HILLS, Fresno Co., Cal.—Wm. Reinhart, vice-president of Shell Co., is in charge of a new organization of about fifteen oil companies operating in the Kettleman Hills district, and known as the Kettleman North Dome Association, plans construction of between six and eight miles of pipe lines and three or four 55,000-bbl. capacity steel storage tanks to provide an oil gathering system for the Kettleman Field. Offices of the new company are located in Room 719, Richfield Oil Bldg., Los Angeles.

KETTLEMAN HILLS, Kings Co., Cal.—Southern California Construction Co., 111 Mesenger St., awarded contract by Southern Fuel Co., Garland Bldg., to construct 45 mile natural gas pipe line from the Superior Refinery to the lines of the Western States Gas Co. in Kettleman Hills. The work will involve trenching, laying, and acetylene welding of the line which will comprise 12 3/4-in., 20-in., and 22-in. steel pipe. Work started March 9 and will be completed in about thirty days. The cost is approximately \$30,000.

SEWERS AND SEWAGE DISPOSAL PLANTS

SOLEDA, Monterey Co., Cal.—C. Kennedy, engineer, Call Bldg., San Francisco, completing plans for sewer system and treatment plant, work to be financed under 1911 Improvement Act and 1915 Bond Act. Hearing Mar. 17. Project involves:

- (1) 7570 ft. 10-in. vit. sewer;
- (2) 47 ft. 10-in. cast iron pipe under railway and highway;
- (3) 4 6-in. tees on 10-in. pipe;
- (4) 4 6-in. tees on 6-in. pipe;
- (5) 61 4-in. tees on 10-in. pipe;
- (6) 231 4-in. tees on 6-in. pipe;
- (7) 39 manholes;
- (8) 18 lampholes.

- The treatment plant involves:
- (1) 600 cu. yds. excavation;
 - (2) 2750 cu. ft. concrete;
 - (3) 13,700 lbs. reinf. steel;
 - (4) 40 cu. yds. sand;
 - (5) 10 cu. yds. gravel for sludge bed;
 - (6) 150 ft. 10-in. cast iron pipe effluent line;
 - (7) 520 ft. 10-in. vit. pipe effluent line;
 - (8) 4 8-in. tees on 10-in. vit. pipe;
 - (9) 20 ft. 12-in. corr. pipe culverts;
 - (10) 205 ft. 6-in. vit. pipe sludge bed drain;
 - (11) 94 ft. 4-in. tile sludge bed drain;
 - (12) 2895 cu. ft. 6-in. woven wire fence;
 - (13) one 12-ft. gate;
 - (14) one 25-ft. well;
 - (15) control house, tar screens, clarifier with motor, baffles, stop plank, by-pass screen and cast iron pipe to sludge pumps and valves, digester equipment including gas dome, gas meter, gas piping, screenings burner, fresh water pipe, cast iron pipe to and from sludge pump and to sludge drying bed, valves, cast iron overflow pipe, water pump and motor, tank, pipe and valves, electrical equipment.

SAN RAFAEL, Marin Co., Cal.—Engineer J. C. Oglesby, Freitas Bldg., San Rafael, commissioned by county supervisors to prepare plans for sewer system in the Homestead district. A sanitary district will be organized to finance construction.

BENICIA, Solano Co., Cal.—City trustees order plans for sewer in proposed sewer district in East Fourth street. Details will be published shortly.

HEALDSBURG, Sonoma Co., Cal.—City trustees authorize preparation of plans for connecting sewer in North St. bet. 1st and University Sts., linking two lines already in use.

BOULDER CITY, Nevada.—Burton Lowther, consulting engineer, Denver, Colo., is completing plans for a city sewerage system for Boulder City, the new government townsite at the Hoover Dam. The proposed system, which will cost \$150,000, will involve collection mains with service connections

and a disposal plant about 0.75 mile distance from the city.

MODESTO, Stanislaus Co., Cal.—A proposal initiative ordinance requiring the city council to appropriate \$25,000 annually for construction of main line sewers has been filed in the office of H. E. Gragg, city clerk, by property owners.

SAN JOSE, Santa Clara Co., Cal.—Prentice & Hunt, San Jose, at \$2929.81 awarded contract by city council (5297) to sewer portions of Willow St., Prevost St. and Delmas Ave., involving vit. pipe san sewers, brick manholes, vit. wye branches, house laterals and flushing inlets. 1911 Act.

SAN FRANCISCO—H. C. Reid and Co., 389 Clementina St., at \$13,462 and \$87.50 each for additional standards, submitted low bid to the Board of Public Works Mar. 18 to install ornamental street lighting system in Bay Shore Blvd.

- (a) furnish and install ornamental street lighting system.
- (b) furnish and install ornamental street lighting standards.

Following is complete list of bids:

H. C. Reid Co.....(a) \$13,462 (b) \$ 87.50	Alta Elec. Co.....(a) 13,500 (b) 97.00
Eutte Elec. and Mfg. Co.....(a) 13,700 (b) 84.00	R. Flatland.....(a) 14,120 (b) 74.00
A. C. Rice.....(a) 14,860 (b) 67.00	Severin Elec. Co. (a) 15,499 (b) 91.00
NePage-McKenny Co.....(a) 15,587 (b) 90.00	City Imp. Co.....(a) 17,500 (b) 90.00
L. J. Cohn.....(a) 17,700 (b) 150.00	Butte Elec. Equip. Co.....(a) 18,137 (b) 108.00
Turner Co.....(a) 18,700 (b) 108.00	C. E. Eaton.....(a) 18,750 (b) 95.00
Enterprise Electric Co.....(a) 20,641 (b) 133.00	

WATER WORKS

REDWOOD CITY, San Mateo Co., Cal.—Scott Machinery Co., 948 Folsom St., San Francisco, at \$1288 submitted lowest bid to city council to furnish and install two centrifugal booster pumps and motors. Following is a complete list of bids received:

Scott Machinery Co.....\$1288	Nash, Englehard & Co.....1300
Simonds Machinery Co.....1311	Woodin & Little.....1325
Fairbanks Morse.....1331	Water Works Supply Co.....1349
R. S. Danforth.....1392	Western Engineering Co.....1400
Bradford Mfg. Co.....1400	De LaVal Steam Turbine Co.....1443
Byron Jackson Pump Co.....1451	Worthington Co.....1573
Wesco Pump Co.....2207	Pelton Water Wheel Co.....2222

Bids held under advisement.

BEVERLY HILLS, Los Angeles Co., Cal.—Until 8 P. M., April 7, bids will be received by city council to furnish

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipment;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St. Phone GARfield 4374

San Francisco

and install one deep well turbine pump including appurtenances. Salisbury, Bradshaw & Taylor, Petroleum Securities Bldg., Los Angeles, consulting engineers. Plans on file in office of city clerk.

REDWOOD CITY, San Mateo Co., Cal.—Following is a complete list of bids received by city council to furnish two deep well turbine pumps to be installed in open bored wells:
 Nash, Englehart & Co., Sharon Bldg., San Francisco.....\$2100
 Campbell & Budlong.....2100
 Bradford Mfg. Co.....2419
 Kimball Krogh Co.....2484
 Elmonds Machinery Co.....2570
 Fearless Pump Co.....2575
 Pelton Water Wheel Co.....2607
 Scott Machinery Co.....2750
 Norweg Jackson Pump Co.....2904
 United Iron Works.....3150
 R. S. Danforth.....3282
 Worthington Co.....4103
 Bids held under advisement.

NAPA, Napa Co., Cal.—United States Cast Iron Pipe & Foundry Co., Monadnock Bldg., San Francisco, at \$1885.00 awarded contract by city council to furnish c. l. pipe to replace an existing line in Grand St., 270 ft. First and Laurel Sts. Other bids: American C. I. Pipe Co., \$1909; Pacific States C. I. Pipe Co., \$1945.90.

COALINGA, Fresno Co., Cal.—Superintendent Hayes of the Municipal Water Department authorized by the city council to purchase 3,000 ft. of water pipe for replacements in service to three blocks south of the railroad track east on Fifth St.

LAFAYETTE, Contra Costa Co., Cal.—Proceedings will be started tonight by the county supervisors for an election to decide on the formation of a water district which proposes to fund bonds to finance construction of a distributing system to connect up with the Mokelumne water system of the East Bay Municipal Utility Dist.

MANTECA, San Joaquin Co., Cal.—Until April 6, 8 P. M., bids will be received by Alzoe Gianelli, city clerk, to furnish and deliver f. o. b. Manteca:

- (1) 2820 ft. Class B sand cast, Class 150 Mono cast or Class 150 de Lavaud, 6-inch bell and spigot end cast iron pipe. Precaulked joint pipe and fittings will be considered.
- (2) Five 6-inch Class B cast iron all bell crosses;
- (3) Six 6-inch Bell end Class B cast iron tees;
- (4) Four 6-inch to 4-inch Class B, cast iron tapered reducers;
- (5) Fifteen 6-inch Class B, cast iron elbows.

Certified check or bid bond 10% payable to city required with bid.

SEATTLE, Wash.—Bids will be asked shortly by the Board of Public Works to construct reservoir and foundations for two steel standpipes in the West Seattle district for the municipal water department. The work is estimated to cost \$700,000. The tanks, costing about \$75,000 will be 30 feet high with a diameter of 92 feet each and a capacity of 1,000,000 gallons each. Bids on the tank work, however, are not expected to be called before summer.

MILLBRAE, San Mateo Co., Cal.—Geo. DeGolyer, Federal Telegraph Bldg., at \$7898.25 submitted the low bid and will be awarded the contract within one week by the Millbrae Public Utility District to construct water distributing system. Project involves:
 3450 ft. 6-in. cast iron pipe;
 1150 ft. 4-in. cast iron pipe;

8275 ft. 2-in. galvanized wrought iron pipe;
 4 6-in. gate valves;
 15 4-in. do;
 25 2-in. do;
 1 4-in. cast. meter manhole;
 45 valve boxes;
 Installing 670 hydrants furnished by the district.

Following is a complete list of bids received:
 Geo. DeGolyer.....\$ 7,898
 P. L. Burr.....8,414
 J. S. Hannah.....8,538
 J. J. Ongaro.....8,604
 H. E. Connor.....8,646
 E. W. Redmond.....8,820
 L. C. Smith.....8,890
 F. G. Treacy.....9,321
 Martin Murphy.....9,322
 J. T. Lawler.....9,498
 J. T. Clinch.....9,737
 James Currie.....10,042
 Frederickson & Watson.....10,250
 C. B. Bowden.....10,943
 P. & H. Constr. Co.....10,971
 Thos. Douglas.....15,262

SAN BRUNO, San Mateo Co., Cal.—City Engineer R. A. Klassen preparing plans for main mains and hydrants in the Third Addition, involving 3,600 ft. 4-in. pipe and 5,700 ft. 2-in. pipe and hydrants. Est. cost, \$5,000.

CHOWCHILLA, Madera Co., Cal.—Winthroft Pump Co., Fresno, at \$1,041 awarded contract by city trustees to furnish and install deep well turbine pump in connection with water system; capacity of 500-gpm.

SAN FRANCISCO.—Following bids received by Leonard S. Leavy, city purchasing agent, to furnish and deliver concrete meter boxes for the Municipal Water Department:

- Prop. 1. Concrete box; (1-a) concrete lid.
 - Prop. 2. Concrete frame; (2-a) concrete lid.
 - (A) Building Repair Department, Board of Public Works; delivery 14 days.
 - (B) Art Concrete Works; delivery 3 days.
 - (C) Forni Manufacturing Co.; delivery 10 days.
- | | | | |
|------------|----------|----------|----------|
| (1) | (A) \$30 | (B) \$39 | (C) \$30 |
| (1a) | 20 | 40 | 30 |
| (2) | 50 | 155 | 140 |
| (2a) | 20 | 40 | 35 |

Under Proposition No. 1 boxes are for 1/2- and 1-inch meters.
 Under Proposition No. 2 boxes are for 1 1/2- and 2-in. meters.

PLAYGROUNDS & PARKS

MONTEREY, Monterey Co., Cal.—City council contemplates bond issue for \$3500 to finance construction of tennis courts on a site yet to be selected.

SACRAMENTO, Cal.—A. Telchert & Son, 1846 37th St., Sacramento, at \$1,095 submitted low bid to City Council to construct tennis court at Southside Park. Following is a complete list of the bids:
 A. Telchert & Son, Sacto.....\$1,095
 Clark & Henry, San Francisco.....1,149
 McGillivray Const. Co., Sacto.....1,246
 Lindgren & Swinerton, Sacto.....1,696
 Bids held under advisement.

SALINAS, Monterey Co., Calif.—W. A. Dontanville, Salinas, at \$743.05 awarded contract by city council to construct tennis court in Alisal Park. R. G. Oakley, only other bidder at \$638.20 failed to enclose certified check with bid as required.

STREETS AND HIGHWAYS

STOCKTON, San Joaquin Co., Cal.—Until April 6, 11 A. M., bids will be received by Eugene D. Graham, county clerk, to improve the Rhoden Road in Road District No. 1, 3.11 miles in length. Certified check 10% payable to Chairman of the Board of Supervisors required. Plans obtainable from Julius Manthey, county surveyor.

BAKERSFIELD, Kern Co., Calif.—County Surveyor J. R. Thornton is making surveys for highway to the mining town of Ransburg traversing from the mouth of Red Rock Canyon running north along the western shore bed of the Dry Salt Lake, cutting off the old highway by the way of Mojave, involving considerable grading.

SANTA BARBARA, Cal.—J. G. Donovan & Son, 4081 Goodwin Ave., Los Angeles, were awarded contract by county supervisors at \$11,800 for grading and other works on Sections 2A and 2B, San Julian Road Project, in San Julian Rancho, 4th Road District, involving: 100,000 cu. yds. excavation; 321 cu. yds. reinf. concrete; 832 ft. 8-in., 526 ft. 24-in., 104 ft. 38-in., 154 ft. 36-in., 46 ft. 42-in. and 386 ft. 48-in. corr. iron culvert. Unit bid listing on this project published in issue of March 16.

REDWOOD CITY, San Mateo Co., Cal.—City Engineer C. L. Dimmitt has completed specifications to extend Main St. across Redwood Creek to connect with the Bayshore Highway. Plans provide for a concrete bridge of two 20-ft. spans, giving a length of 60 ft. and a width of 70 ft. Cost is estimated at \$26,500, exclusive of a \$2500 fill, bringing the total cost to \$29,000, of which \$16,500 would be paid by property directly assessed; \$7000 from the surplus of the \$55,000 April bridge bond issue and \$5500 borrowed from the water department.

MOUNTAIN VIEW, Santa Clara Co., Cal.—Plans for a direct road from Mountain View to the Sunnyvale dirigible base are being worked out by the Mountain View Chamber of Commerce.

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 Class Pacific Coast Construction

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MODOC COUNTY, Cal.—Larsen Bros., Galt, Calif., awarded contract at \$89,075 by U. S. Bureau of Public Roads, San Francisco, for grading Section "A" of Route 11, Lava Beds National Forest Highway in Modoc National Forest, 10,932 miles in length, involving: 78.0 acres clearing; 95,200 cu. yds. unclass. excav.; 366 cu. yds. excav. structures; 17,200 sta. yds. overhaul; 10,932 miles finish earth graded road; 93 cu. yds. class B concrete; 914 lbs reinforcing steel; 2044 lin. ft. 18-in. C. M. pipe; 170 lin. ft. 24-in. do; 72 lin. ft. 30-in. do; 76 lin. ft. 36-in. do; 33 right-of-way monuments.

Complete list of unit bids received on this project published in issue of February 27.

SALINAS, Monterey Co., Cal.—City council declares intention (94) to improve portion of Abbott St., involving: (1) 55,500 sq. ft. grading; (2) 42,750 sq. ft. 6-in. hydraulic concrete paving; (3) 5150 sq. ft. sidewalks; (4) 1235 lin. ft. hydraulic cement concrete curbs.

1911 Act. Bond Act 1915. Hearing April 6. M. R. Keef, city clerk. Howard Cozzens, city engineer.

SAN BERNARDINO COUNTY, Cal.—McCray Co., 4482 E. Wirth St., Los Angeles, at \$247,706 awarded contract by State Highway Commission to grade and surface with oil treated crushed gravel or stone, 13.6 miles west from Cronise Valley and 6 miles west of Eaker.

SAN JOSE, Santa Clara Co., Cal.—Until March 23, 8 P. M., bids will be received by John J. Lynch, city clerk, (5306) to improve Empire Alley, bet. First and San Pedro Sts., involving grading, 6-in. cement concrete pave., cement concrete sump basin covered by two cast iron 17-in. top gratings, 8-in. vit. pipe drain, cement concrete walks, curbs and gutters, 6-in. cement concrete driveways. Act 1911. Certified check 10% payable to city required with bid. Plans file in office of clerk. Wm. Popp, city engineer.

MONTEREY COUNTY, Calif.—Owl Truck Co., Compton, submitted low bid to the U. S. Forest Service, Ferry Bldg., San Francisco, at \$22,497.66 for upgrading and installing curbs in approximately 6.6 miles of road in Santa Barbara National Forest in Monterey County, involving:

- (1) 61,188 cu. yds. excav., unclassified, without overhaul;
- (2) 906 lin. ft. 12-in. corrug. metal culverts, hauled and in place;
- (3) 488 lin. ft. 15-in. do;
- (4) 76 lin. ft. 24-in. do;

Following is a complete list of bids: (A) Owl Truck Co., Compton \$22,497.66 (B) Lilly, Willard & Binotti, Stockton 30,840.24 (C) Chigris & Sutsos, S. F. 38,165.48

	(A)	(B)	(C)
(1)	\$.355	\$.48	\$.61
(2)	.52	1.00	.50
(3)	.50	1.00	.60
(4)	.75	1.00	1.25

All bids held under advisement.

SAN JOSE, Santa Clara Co., Cal.—Until April 6, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve Edmunson Ave. in Supervisor District No. 1. Project involves 2 miles of oil macadam pavement. Plans obtainable from Robert Chandler, county surveyor.

SAN JOSE, Santa Clara Co., Cal.—Until April 6, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve Mt. Pleasanton Rd. in Supervisor District No. 2. Project involves three-fifth mile of oil macadam pavement. Plans obtainable from Robert Chandler, county surveyor.

MENDOCINO COUNTY, Cal.—Following bids received Mar. 18 by State Highway Commission to improve 33.5 miles of highway between Pepperwood and Little Dann Creek, about 5.5 miles to be graded and about 13.5 miles to be surfaced with bituminous treated earth, gravel or stone surfacing, road mixed:

E. C. Coates, Sacramento	\$49,470
Robinson Roberts Co.	524,478
Healy-Tibbitts Const. Co. S. F.	527,500
Hemstreet & Bell, Marysville	531,051
W. H. Block Co., Sacramento	543,207
Morrison Knudsen & Eoies, Id.	556,525
Frederickson & Watson, Oakland	558,511
MacDonald & Kahn, S. F.	577,986
W. C. Mead, Oakland	581,562
J. F. Knapp, Oakland	590,571
Granfield, Farr & Carlin, San Francisco	625,247
P. L. Crooks & Co., Inc., Portland, Oregon	634,563
T. E. Conley, San Francisco	636,309
General Const. Co., Seattle	636,393
Kerr & Kilboe, Portland	704,613

Bids held under advisement.

SAN JOSE, Santa Clara Co., Cal.—Until April 6, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve McKee road in Supervisor District No. 3. Project involves 14 miles of asphalt concrete pavement. Plans obtainable from County Surveyor Robert Chandler.

SAN JOSE, Santa Clara Co., Cal.—Until April 6, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve Blossom Hill Road in Supervisor District No. 5. Project involves 1 1/2 miles of graveling. Plans obtainable from County Surveyor Robt. Chandler.

BIDS WANTED

CALAVERAS COUNTY, Cal.—Until April 7, 3:30 P. M., bids will be received by C. J. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading 3.055 miles of Section B, Big Trees-Dorrington, Ebbetts Pass National Forest Highway in the Stanislaus National Forest. Project involves:

- 21.1 acres clearing;
- 71,500 cu. yds. unclass. excavation;
- 995 cu. yds. unclass. excavation for structures;
- 85,700 cu. yds. overhaul;
- 3,085 miles finish earth graded road;
- 45 cu. yds. class E concrete;
- 1,750 lbs. reinforcing steel;
- 1,560 lin. ft. corrugated metal pipe in place;
- 78 lin. ft. remove, clean and relay C. M. pipe;
- 16,000 lin. ft. protection ditch;
- 63 right of way monuments.

Plans obtainable from engineer on deposit of \$10, returnable, checks for same to be made payable to Federal Reserve Bank of San Francisco.

LAKE COUNTY, Cal.—Until March 30, 2 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, State Office Bldg., Sacramento, to treat with light fuel oil as a dust palliative, 10.9 miles between Upper Lake and Lucerne. Specifications obtainable from above.

MENDOCINO COUNTY, Cal.—Until March 30, 2 P. M., bids will be received by John H. Skeggs, district engineer, State Highway Commission, State Bldg., Sacramento, to treat with light fuel oil as a dust palliative, 33 miles between McDonald and Flynn Creek. Specifications obtainable from above office.

SANTA CRUZ COUNTY, Cal.—Until March 30, 2 P. M., bids will be received by John H. Skeggs, district engineer, State Highway Commission, State Bldg., San Francisco, to treat

with light fuel oil as a dust palliative, 14 miles between California Redwood Park and Watermark Switch. Back Specifications obtainable from above office.

STOCKTON, San Joaquin Co., Cal.—Fierera and Reed, Tracy, at \$11,000 awarded contract by county supervisors to improve the Meyer Road 1.91 miles in length, involving: 800 cu. yds. grading; 4850 tons base course; 460 tons crushed rock; 200 tons rock chips; 165 tons pea gravel; 108 bbls fluid asphalt; 45 tons asphalt cut; 2 in. stall pipes. Complete list of bids follows:

Fierera & Reed	\$11,000
Lilly, Willard & Binotti Stockton	11,071
C. W. Wood, Manteca	11,632

LAKE COUNTY, Cal.—Basalt Rock Co., Napa, at \$5,940 submitted low bid to John Skeggs, District Engineer State Highway Commission San Francisco, to treat with light fuel oil as a dust palliative 25 miles between Middleton and Ukiah-Tahoe Highway. Complete list of bids follows:

Basalt Rock Co., Napa	\$5,044
Chas. Kuppinger, Lakeport	5,225
Jack Casson, Hayward	5,466
C. F. Frederickson & Sons, Lower Lake	5,541
Peres and Gatto, Richmond	5,595
E. A. Peres, Richmond	6,888

FREKA, Siskiyou Co., Cal.—City Council has authorized preparation of plans for an extensive street paving program. Specifications will provide for alternative types of pavement.

CLOVERDALE, Sonoma Co., Cal.—Until April 7, 8 P. M., bids will be received by Maude E. Kelo, city clerk for grading and oil surfacing various streets. City bid \$4600 available for such work. Certified check 10% payable to city required with bid. Specifications on file in office of the city clerk.

SANTA BARBARA, Cal.—Until 1:30 P. M., March 26, bids will be received by the city council to improve Anacap St., bet. Ortega St. and 150 ft. eas. of Yanonali St., and portion of Oliv St., involving grading, two-courses walk, concrete driveways; 1911 Act E. B. Brown, city engineer.

SACRAMENTO, Cal.—Carl R. Fled ler, 2631 30th St., Sacramento, awarded contract by city council (2206) to improve alley between Y St. and Burnett Way, from 24th St. to Point 27 ft. westerly, involving c. i. drains with vitrified sewer connections, constructed vitrified sewer, 1-inch water main connections, grading, hydraulic concrete pavement.

HAYWARD, Alameda Co., Cal.—City Engineer Jesse B. Holly has completed plans to widen Castro St., bet A and C Sts., and A St., from Main to Castro; estimated cost \$10,000. Plans will be submitted at the March 18 meeting of the city trustees.

QUINCY, Plumas Co., Calif.—Until April 6, 10 A. M., bids will be received by Wm. F. Werner, county clerk, to furnish 10,000 heart cedar posts, size 6 inches by 6 inches by 7 feet long; to be delivered on highway in the vicinity of Beckwith.

SALINAS, Monterey Co., Cal.—City council declares intention (94) to improve portion of Abbott Street, involving grading, hydraulic cement concrete curbs, walks, 6-in. hydraulic cement concrete pavement. 1911 Act. Bond Act 1915. Hearing April 6. M. R. Keef, city clerk. Howard Cozzens, city engineer.

aturday, March 21, 1931

SAN JOSE, Santa Clara Co., Cal.—An Jose Paving Co., San Carlos and Mount Sts., San Jose, awarded contract by county supervisors to improve Cadwallader avenue in Supervisor District No. 2, involving 50,275 ft. of oil macadam pavement. Complete list of bids follows:
 An Jose Paving Co. \$2324
 Granite Construction Co. 3967
 J. Ralsch 3975
 Erlera & Reed 3985
 Surveyor's estimate 3591

SAN JOSE, Santa Clara Co., Cal.—Until April 6, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve the following roads: Drummond Ave, supervisor district No. 1; Mt. Pleasant road, supervisor district No. 2; McKee road, supervisor district No. 3; Blossom Hill road, supervisor district No. 5. Specifications obtainable from Robt. Chandler, county surveyor. Quantities of materials involved in these projects will be published in an early issue.

SAN JOSE, Santa Clara Co., Cal.—J. Ralsch, Burrell Bldg., San Jose, \$14,770 awarded contract by county supervisors to improve the San Jose rd Almaden road in Supervisor District No. 4, involving 218,750 sq. ft. of macadam pavement. Complete list bids follow:
 J. Ralsch \$14,770
 An Jose Paving Co. 14,969
 Erlera & Reed 16,498
 Granite Constr. Co. 18,317
 J. Ralsch-McReynolds-Tiffany 18,995
 Surveyor's estimate 19,190

SAN JOSE, Santa Clara Co., Cal.—An Jose Paving Co., San Carlos and Mount Sts., San Jose, at \$29,349 awarded contract by county supervisors to improve Congress Springs rd in Supervisor District No. 5, on Saratoga to the Summit where the Skyline Blvd. Project involves 516,000 sq. ft. of oil macadam pavement. Complete list of bids follows:
 An Jose Paving Co. \$29,349
 Co. French Jr. 34,599
 Granite Construction Co. 34,768
 J. Ralsch 39,490
 An Jose Excavating Co. 43,850
 Surveyor's estimate 47,400

SAUSALITO, Marin Co., Calif.—C. Aggiora, Sausalito, at \$785.84 submitted lowest bid to W. Z. Tiffany, city clerk, for "bitumulus armor-coat" existing pavement in Valley Street on Second St. to West St. and the turn from Valley St. northerly into Bird St., also West St. from Valley St. to the Bridge leading onto Main St., and the return from West Street to Crescent Ave., and also Fourth St. northerly from Valley St. for a distance of 165 ft.
 Following is a complete list of bids:
 Maggiora \$785
 Res & Gatto 814
 F. Mumy 898
 Highway Builders, Ltd. 903
 Bids held under advisement until March 31st.

SALINAS, Monterey Co., Cal.—City council declares intention (93) to improve portions of Lincoln Avenue, involving grading, hydraulic cement concrete curbs and walks, 5-in. hydraulic cement concrete pavement. Will Act. Bond Act 1915. Hearing will be M. R. Keef, city clerk. Howard Cozens, city engineer.

PALO ALTO, Santa Clara Co., Cal. City council contemplates paving, curbs, gutters, etc., in 18 unimproved streets, exclusive of the 14 streets to be improved under a contract recently awarded to A. J. Ralsch. The contemplated work will involve an expenditure of \$100,000. J. F. Byxbee, city engineer.

SONOMA COUNTY, Calif.—Until April 8, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland cement concrete, 1 1/2 miles at Lytton Overhead Crossing.

SAN MATEO COUNTY, Cal.—Until April 8, 2 P. M., bids will be received by State Highway Commission to pave with Portland cement concrete, 2.0 miles between Burlingame and San Mateo.

SAN MATEO COUNTY, Cal.—Until April 8, 2 P. M., bids will be received by State Highway Commission to surface with crushed rock and concrete to be stockpiled on 6.6 miles between Rancho San Mateo and Half Moon Bay Road.

MONO COUNTY, Cal.—Until April 8, 2 P. M., bids will be received by State Highway Commission to grade 14.2 miles between 2 miles west of Bridgeport and Sonora Junction.

LOS ANGELES COUNTY, Cal.—Until April 8, 2 P. M., bids will be received by State Highway Commission to grade 5.0 miles between 4 miles north of La Canada and Colby Canyon.

OAKLAND, Cal.—City council declares intention to improve portions of 88th Avenue between Hillside St. and Olive St., involving grading, curbs and gutters, paving, sewer with appurtenances. 1911 Act. Hearing April 2. Frank C. Merritt, city clerk. W. N. Frickstad, city engineer.

DOUGLAS COUNTY, Nevada.—Until March 25, 3 P. M., bids will be received by S. C. Durkee, chief engineer, State Highway Commission, Carson City, Nevada, for grading, construction of structures and placing surfacing material between 5 miles east of Holbrook to 2 miles north of Carter's and 4 miles south of Gardnerville to Gardnerville, a distance of 18.6 miles.

Certified check 5% required with bid. Plans obtainable from engineer on deposit of \$15, of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco.

MINERAL COUNTY, Nev.—Until March 25, 2 P. M., bids will be received by S. C. Durkee, chief engineer, State Highway Commission, Carson City, Nevada, for grading, construction of structures and placing surfacing material between Dutch Creek and Cehurz, a distance of 23.21 miles.

Certified check 5% required with bid. Plans obtainable from engineer on deposit of \$15, of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco.

PALO ALTO, Santa Clara Co., Cal.—City council is considering estimates of cost to widen and pave six blocks on the state highway in Mayfield, between College Ave. and Page Mill Rd. The State Highway Commission proposed to pave a strip 40 ft. wide through the center of El Camino Real in Mayfield and to pay 75% of the cost of widening the right of way to 100 ft., on condition that the city undertake to pave the balance of the road, rebuild the sidewalk and curbs, make all utilities and sewers and bear 25% of the cost of widening. The recommendation is made that the city contribute about \$10,800 and the remainder, \$36,340, including electrolers, be handled by the franchise. The proposed division is for the frontage to pay the cost of paving a strip 18 ft. wide, leaving sidewalks and curbs, and the city bear the 25 percent of widening

the right of way, together with the cost of moving sewers and utilities. The total frontage cost per foot is estimated at \$10.74, or \$8.27 per front foot without electrolers. J. F. Byxbee is city engineer.

NAPA, Napa Co., Cal.—City council declares intention (537) to construct cement concrete curbs in both sides of Jackson St. bet. Yojome Street and Lawrence St. 1911 Act. Hearing Mar. 30. H. H. Thompson, city clerk.

SAN LUIS OBISPO COUNTY, Cal.—Hanrahan Co., Standard Oil Bldg., San Francisco, at \$209,700, awarded contract by State Highway Commission to grade and pave with asphalt concrete 9.8-miles between 1.5-miles south of Santa Margarita and Atascadero.

TUOLUMNE COUNTY, Cal.—Until April 7, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to grade Section B, Long Barn-Stoddard Springs, Sonora Pass National Forest Highway in Stanislaus National Forest, 2,740 miles in length, involving:

- (1) 25 acres clearing;
- (2) 54,700 cu. yds. unclass. excav.;
- (3) 1,040 cu. yds. unclass. excav. for structures;
- (4) 48,000 sta. yds. overhaul;
- (5) 3,740 miles finishing earth-graded roads;
- (6) 6,050 cu. yd. m. hauling selected backfill material;
- (7) 1 cu. yd. class A concrete;
- (8) 77 cu. yds. class B concrete;
- (9) 2,100 lbs. reinforcing steel;
- (10) 2,496 lin. ft. corr. metal pipe, in place;
- (11) 56 light of way monuments;
- (12) 12,250 lin. ft. protection ditch;
- (13) 52 lin. ft. remove and stockpile

Plans obtainable from engineer on deposit of \$10, checks to be made payable to the Federal Reserve Bank of San Francisco.

OAKDALE, Stanislaus Co., Cal.—City council proposes to pave F St. with aid of State Highway Commission, pavement to be 5-inch concrete on sides with 6-inch center. The cost is estimated at \$30,000 of which the state would pay \$10,000.

POSITION WANTED

STENOGRAPHER Bookkeeper, desires position with Architect or Contractor. Experienced in Building Construction, General Contracting and Architectural Work. Phone Fillmore 7211—Miss Madden

LOCAL LABOR ON SCHOOL BUILDING

"All other things being equal, local labor is to be employed provided that the cost of building is not increased thereby." This clause will be inserted in the contract for bids for the \$75,000 addition to the Sunset school in Carmel if the issue is passed by voters of the Carmel School District today.

The school trustees have voted to ask for bids on the segregated contract basis, thus assuring the board to deal directly with all contractors on the project.

Listing \$156,119 in liabilities and assets valued at \$115,944, Umberto Cavallo, Berkeley contractor, has filed his schedule in bankruptcy with the Federal Court in San Francisco. Cavallo filed his original petition and was adjudged a bankrupt on March 3. His assets consist of real estate holding and the liabilities consist principally of mortgages.

Contracts Awarded Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
333	Gray	Coburn	1000
334	Friedman	Coburn	2000
335	Papale	Erickson	4000
336	Botkin	Meyer	1000
337	Haskins	Owner	7000
338	Meyer	Owner	20000
339	Meyer	Owner	5000
340	Carlson	Owner	4000
341	Swanson	Cwner	3750
342	Meyer	Owner	5000
343	21st Ave	Johnson	3000
344	Trustees	Barrett	£5000
345	Meyer	Owner	5000
346	Caron	Owner	4000
347	Nelson	Owner	3500
348	Dunning	McCarthy	4000
349	Penziner	Cwner	1000
350	Grupertz	Collman	10500
351	Gallagher	Douglas	4500
352	Johnson	Owner	2500
353	Hallgren	Owner	4000
354	Strand	Owner	90000
355	Vertner	Owner	3500
356	Chamberlin	Cwner	1000
357	McAfee	Owner	4500
358	Gilpin	Hobbs	4000
359	Terson	Ruegg	6000
360	Meyer	Owner	5000
361	Janofsky	Owner	3500
362	Hobbs	Owner	4000
363	Meyer	Owner	12000
364	Johnson	Owner	3500

REPAIRS

(333) 3538 21st STREET; repair fire damage.
 Owner—S. B. Gray, 3538 21st St.
 Architect—Not Given.
 Contractor—I. W. Coburn, 2048 Market Street. \$1000

REPAIRS

(344) 406 HAIGHT ST.; repair fire damage.
 Owner—M. Friedman, 2048 Market St.
 Architect—Not Given.
 Contractor—I. W. Coburn, 2048 Market Street. \$2000

DWELLING

(325) N PARK ST. 200 W Mission; one - story and basement frame dwelling.
 Owner—Mr. and Mrs. L. Papale, 409 Elise Street.
 Architect—Not Given.
 Contractor—H. Erickson, 972 Chenery. \$4000

ALTERATIONS

(336) 743 45th AVE.; alterations to dwelling, add one room.
 Owner—Mr. Botkin, 743 45th Ave.
 Plans by Builders.
 Contractor—Meyer Bros., 727 Portola Drive. \$1000

DWELLINGS

(337) W 37th AVE. 245 N Balboa St.; two 1-story and basement frame dwellings.
 Owner and Builder—A. S. Haskins, 340 St. Roses Ave.
 Plans by Owner. each \$3500

DWELLINGS

(338) E ROCKDALE 170 S Reposa; five 1-story and basement frame dwellings.
 Owner and Builder—Meyer Bros., 727 Portola Drive.
 Plans by Owner. each \$4000

DWELLING

(339) NE ROCKDALE and Omar; 1-story frame dwelling.
 Owner and Builder—Meyer Bros., 727 Portola Drive.
 Plans by Owner. \$5000

DWELLING

(340) NW COR. LAWTON and 21st Ave.; 1-story and basement frame dwelling.
 Owner—J. Carlson, 2239 Bryant St.
 Plans by D. E. Jaekle, 744 Call Bldg. \$4000

DWELLING

(341) E 22nd AVE. 143 N Noriega; one - story and basement frame dwelling.
 Owner and Builder—N. Swanson, 2162 20th Avenue.
 Architect—Not Given. \$3750

DWELLING

(342) NW TERESITA and EVELYN; one - story and basement frame dwelling.
 Owner and Builder—Meyer Bros., 727 Portola Drive.
 Plans by Owner. \$5000

ALTERATIONS

(343) NE COR. GEARY ST. and 21st Ave.; alterations to move church building 100 ft. back on 21st Ave.
 Owner—Twenty - first Avenue Baptist Church.
 Architect—Not Given.
 Contractor—J. Johnson, 666 Mission Street. \$3000

ADDITION

(344) FULTON ST. opposite Cole St.; four - story class B addition to present college building.
 Owner—Board of Trustees of the University of San Francisco, 2130 Fulton Street.
 Architect—E. Eames, California St.
 Contractor—Barrett & Hilp, 918 Harrison St. \$25,000

DWELLING

(345) N EVELYN 42 W Teresita; one - story and basement frame dwelling.
 Owner and Builder—Meyer Bros., 727 Portola Drive.
 Plans by Owner. \$5000

DWELLING

(346) S NEWCOMB 200 NV Newhall; one - story and basement frame dwelling.
 Owner—J. V. Caron, 1559 McKinnon Avenue.
 Plans by Owner. \$4000

DWELLING

(347) S MORAGA 57 W 17th Avenue; one - story and basement frame dwelling.
 Owner and Builder—C. L. Nelson, 2 Fairmount St.
 Plans by Owner. \$350

DWELLING

(348) W 28th AVE. 125 S Judah St; one - story and basement frame dwelling.
 Owner—F. P. Dunning.
 Architect—Not Given.
 Contractor—J. E. McCarthy, 134 Funston Ave. \$40

ALTERATIONS

(349) 837 BUSH ST.; alterations apartments.
 Owner—A. Penziner, 750 Taylor St.
 Architect—Not Given. \$10

DWELLINGS

(350) S MARIPOSA 25 W Rhode I land; three 1-story and basement frame dwellings.
 Owner—C. W. Grupertz, Balboa Bldg
 Architect—W. C. Falch, Hearst Bldg
 Contractor—A. D. Collman, 666 Mission St. each \$35

DWELLING

(351) W 17th AVE. 50 S Santlag; one - story and basement frame dwelling.
 Owner—G. Gallagher, 526 21st Ave.
 Architect—Not Given.
 Contractor—S. Douglas, 2491 29th Av. \$45

DWELLING

(352) S RIVERA 40 E 21st Avenue; one - story and basement frame dwelling.
 Owner—A. C. Johnson, 1835 8th Av
 Architect—Not Given. \$25

DWELLING

(353) E 23rd AVE. 125 N Morag; one - story and basement frame dwelling.
 Owner and Builder—A. Hallgren, 15 24th Ave.
 Plans by Owner. \$40

APARTMENTS

(354) N PACIFIC AVE. 62 E Goug; six - story class C (2); apartmen
 Owner—T. B. Strand, 862 13th Ave.
 Architect—Irvine & Ebbets, Call Bk \$90.0

DWELLING

(355) W 34th AVE. 100 S Ulloa; on story and basement frame dwelling.
 Owner—G. R. Vertner, 5044 Mission Street.
 Architect—Not Given. \$25

ALTERATIONS

(356) 45 GEARY ST.; alterations office.
 Owner—C. Chamberlin, Mills Bldg.
 Architect—Not Given. \$10

DWELLING

(357) E MIRAMAR 51 N Eastwood; one - story and basement frame dwelling.
 Owner and Builder—F. L. McAfee, 7 Hancover St.
 Plans by Owner. \$45

DWELLING

(358) E 22nd AVE. 175 S Morag; one - story and basement frame dwelling.

CAPITAL CITY TILE

COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

Owner—R. Gilpin, 265 San Leandro Way.
 Architect—Not Given.
 Contractor—R. P. Hobbs, 818 Shrader Street. \$4000

DWELLING
 (353) E NEWHALL 125 N Bay View; one-story and basement frame dwelling.

Owner—Mr. Terson, 66 Bay View Ave. Plans by The Ruegg Co.
 Contractor—The Ruegg Co., 369 Pine Street. \$5000

DWELLING
 (362) SW ROCKDALE and Reposa; one-story and basement frame dwelling.

Owner and Builders—Meyer Bros., 727 Portola Drive.
 Plans by Cwner. \$5000

DWELLING
 (381) SE MOSCOW 275 NE Brazil; one-story and basement frame dwelling.

Owner—A. W. Janofsky, 3294 Mission Street.
 Architect—Not Given. \$3500

DWELLING
 (382) E 22nd AVE. 290 S Moraga; one-story and basement frame dwelling.

Owner and Builder—R. P. Hobbs, 818 Shrader Street.
 Architect—Not Given. \$4000

DWELLINGS
 (383) S TERESITA 152 E Isola; three 1-story and basement frame dwellings.

Owner and Builders—Meyer Bros., 727 Portola Drive.
 Plans by Owner. each \$4000

DWELLING
 (384) W 34th AVE. 125 S Ulloa; one-story and basement frame dwelling.

Owner—N. E. Johnson, 666 Mission St.
 Architect—Not Given. \$3500

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
54	California	Cahill	232320
55	Associated	Reavey	6540
68	Regents	Turner	25283
67	SSame	Langlais	20936

ACADEMY BLDG.

(54) GOLDEN GATE PARK; all work on East Wing of California Academy of Science.
 Owner—California Academy of Sciences, Golden Gate Park.
 Architect—Lewis P. Hobart, Crocker Bldg.
 Contractor—Cahill Bros., Inc., 206 Sansome St.

Filed Mar. 13, '31. Dated Mar. 11, '31
 15th of each month.....75%
 Usual 25 days.....25%

TOTAL COST, \$223,230
 Bond, For owner, \$23,230; for M. M., \$111,615. Sureties, Metropolitan Casualty Ins. Co. Forfeit, \$25. Limit, 180 days after commencement. Plans and Spec. filed.

SUPPLY STATION

(55) SW LINCOLN WAY and 15th Ave.; all work for gasoline and oil supply station.
 Owner—Associated Oil Co., 74 New Montgomery St.
 Architect—Not Given.
 Contractor—Reavey & Spilcock, Ltd., Shell Oil Bldg.
 Filed Mar. 16, '31. Dated Mar. 13, '31.
 Ten days after completion.....75%
 Usual 25 days.....25%

TOTAL COST, \$6400
 Bond, \$6500. Sureties, United States Guarantee Co. Limit, 25 days. Plans and Spec. filed.

STEAM EQUIPMENT, ETC.

(56) SAN FRANCISCO CAMPUS of the University of California; installation of steam and air distribution equipment.
 Owner—Regents of the University of California.

Consulting Engineer—B. F. Baber.
 Contractor—The Turner Co., 229 Tehama St.
 Filed Mar 17, '31. Dated Mar 16, '31.
 1st of each month.....75%
 Usual 35 days.....25%

TOTAL COST, \$25,253
 Bond, \$12,000. Sureties, U. S. Guarantee Co. Forfeit, \$25. Limit, 180 days. Plans and Spec. filed.

(57) ELECTRIC Equipment on the above.

Contractor—Charles A. Langlais, 472 Tehama St.
 Filed and Dated March 17, 1931.
 1st of each month.....75%
 Usual 25 days.....25%

TOTAL COST, \$20,936.44
 Bond, \$11,000. Sureties, Fidelity and Deposit Co. of Maryland. Forfeit, \$25. Limit, 180 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
March 10, 1931—650 SECOND STREET. C F Weber Co to J W Cobby and Son.....	March 7, 1931
March 13, 1931—3225 GOUGH ST. Chas E Landsberg to J A Pereira.....	March 10, 1931
March 13, 1931—E 18th AVE 100 S Taraval S 25 x E 120. Carl A Mihalovits to George O Bendon.....	March 11, 1931
March 13, 1931—LOT 12 and NW 25 ft lot 14 blk 3275 Mt Davidson Manor. Peter R and Elsie H Proc. to Henry Lyon.....	March 10, 1931
March 12, 1931—SIXTEENTH and Bryant Sts. San Francisco Baseball Club to Lindgren & Swinerton, Inc.....	March 13, 1931
March 12, 1931—LOT 14 BLK 25, map of Crocker Amazon Tract. H W and M I Peterson to whom it may concern.....	March 9, 1931
March 10, 1931—LOT 42 BLK 2957A Map Sub No 3, Miraloma Park; lots 6 and 7 blk 2971 map Sub No 3 Miraloma Park. Meyer Bros. to whom it may concern.....	March 6, 1931
March 11, 1931—W 18th AVE bet Irving St. and Lincoln Way, 1245-47 18th AVE. A E Manning and Wm J McElroy to W H Everding.....	January 26, 1931
March 10, 1931—PTN LOT 248 Map Spring Valley Hd. Al and May Langley to whom it may concern.....	March 6, 1931
March 10, 1931—N SILLIMAN 90 W Somerset 30x75. G and F Carrara to whom it may concern.....	March 10, 1931
March 17, 1931—W MONCADA Way 85 N Paloma Lot 12 Blk 3 Ingle-side Terrace. Thos J Sullivan to whom it may concern.....	March 17, 1931
March 17, 1931—S GOLDEN GATE AVE 165 E Fillmore 27-6 x 137-6. Langendorf United Bakeries, Inc to Barrett & Hilp.....	March 12, 1931
March 17, 1931—LOTS 2, 3 and 4 Blk 6965E, Ptn lots 10 and 11 blk 6965A, Lot 19 ptn lot 13 Blk 6965A, all in Sub No 1 Geneva Terrace. H and H Stoneson to whom it may concern.....	March 14, 1931
March 17, 1931—LOTS 8, 9, 10, 11, 12 and 13 blk 5005D map Blks 2004B, 2005B, 2005C and 2005D. BH 2972, 3028 and 3054, Westwood HighlanJs. H and H Stoneson to whom it may concern.....	Mar 14, 1931
March 17, 1931—E 22nd AVE 260 N Judah N 25 x E 120. H. Christenson to whom it may concern.....	March 17, 1931
March 16, 1931—SW SILLIMAN and Hamilton W 60 x S 42. C Ravag-	

holl to whom it may concern.....	March 16, 1931
March 16, 1931—SAC HALF of To-land St and west half of Selby St from center line Innes Ave to Jerrold Ave, south half Innes Avenue from E Toland to W Selby, north half Jerrold Ave from E Toland to W Selby; The Inslas Co, Ltd to Stein Shovel & Trucking Contractors.....	March 7, 1931
March 16, 1931—SW TOCLOMA AVE and Blanken Ave S 160 x W 100. Wm H Grahn to whom it may concern.....	March 14, 1931
March 16, 1931—E TENTH ST 125 N Polson St E 190 x 60. G W Price Pump & Engine Co to Chaa J U Koenig & Son.....	March 14, 1931
March 16, 1931—LOT 134 Map Spring Valley Hd. A R Peterson to whom it may concern.....	March 15, 1931
March 14, 1931—E CAYUGA AVE 25 S Larmartine. H Erickson to whom it may concern.....	March 12, 1931

LIENS FILED

San Francisco County

Recorded	Accepted
March 16, 1931—W GATES 24-5 1/2 N Ogdan Ave N 25 x W 70. Inald Floor Co vs H F Phipps and A R Sanchez.....	\$47.13
March 16, 1931—W GATES 49-5 1/2 N Ogdan Ave N 25-6 1/2 W 70 S 25-0 1/2 E 23-4 E 46-8. Inald Floor Co vs H F Phipps and A R Sanchez.....	\$47.12
March 16, 1931—W LYON 25 N Clay N 100-4 1/2 W 137-6 S 35-4 1/2 E 27-6 S 65 E 110. John J Delucchi, \$475.-25; G Jacobsen, \$1091; Christenson Lumber Co, \$3759. vs H O Lindeman and Geo Lievre.....	\$1125
March 16, 1931—W LYON 25 N Clay N 100-4 1/2 W 137-6 S 35-4 1/2 E 27-6 S 65 E 110. D Zelinsky & Sons, Inc vs H C Lindeman, George and E Lievre.....	\$1125
March 16, 1931—W LYON 25 N Clay N 100-4 1/2 W 137-6 S 35-4 1/2 E 27-6 S 65 E 110. Western Hardware and Floor Co, \$805; G B Jackson & Son, \$200. vs H O Lindeman and George Lievre.....	
March 17, 1931—W LYON 25 N Clay N 100-4 1/2 W 137-6 S 35-4 1/2 E 27-6 S 65 E 110. W F Fuller, \$350; Pacific Mfg Co, \$3049.85; vs George and E Lievre and H O Lindeman.....	
March 17, 1931—W LYON 25 N Clay N 100-4 1/2 W 137-6 S 35-4 1/2 E 27-6 S 65 E 110. Scott Co, Inc vs E and Geo Lievre, H O and W R Lindeman.....	
March 17, 1931—E OCTAVIA 100 N Lombard N 27-6 E 101-6 1/2 W 101-6 1/2. A A Derrickson vs Estate of John Widerstrom.....	\$74

RELEASE OF LIENS

San Francisco County

Recorded	Amount
March 12, 1931—E WESTER ST 84-6 S Vallejo S 23 x E 91-8. J S Gerwin & Co to Jerome J and Edith Weinstein, I C Scharrf.....	\$68.18
March 13, 1931—S McALLISTER 137-6 E Buchanan E 27-6 x S 204. Christenson Lumber Co vs H Dieling and F Wiseman.....	\$33.55
March 12, 1931—W LYON 25 and 68-3 1/2 N Clay N 23-5 1/2 x W 110, W Lyon 101-11 N Clay N 32-5 1/2 x W 137-6 S 35-4 1/2 E 27-6 S 65 E 110. E Sugarman vs H O Lindeman and G and E Lievre.....	\$8885
March 12, 1931—E NEVADA 95 N Courtland Ave N 30 x E 100. L. Forge vs A L Gray.....	\$244
March 12, 1931—S McALLISTER 137-6 E Buchanan E 27-6 x S 120. Loop Lumber Co vs Helene Dieling and Wiseman & Co.....	\$116.78

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
276	Bosche	Balrd	1400
278	Chase	Walker	8000
277	Heros	Westlund	1000
278	Nelson	McCabe	2700
280	Netherby	Owner	8000
279	Wells	Wells	3100
281	Hughes	Owner	4000
283	Griffith	Owner	9000
284	Roseberg	Owner	3100
285	Wallin	Owner	2550
286	Warn	Owner	3750
287	Pomponia	Owner	3800
288	Emmel	Justice	4500
293	Clark	Porter	10000
290	Conlogue	Owner	6200
291	Thrams	Owner	13000
292	Blue	Haskell	17485
293	Wheeler	Owner	4750
294	Empire	Rose	8750
295	Fulgham	Fisher	4700
296	Gnn	Owner	2500
297	Lapham	Lapham	15000
298	Williams	Cone	4000
299	Morris	Owner	5000
300	Conklin	Owner	1000
301	Warren	Owner	4000

ALTERATIONS

(276) 238 LA SALLE AVE., **PIEDMONT**; alterations.
 Owner—John Bosche, 238 La Salle Ave., Piedmont.
 Architect—Not Given.
 Contractor—Leroy M. Balrd, 633 Alma St., Oakland. \$1400

RESIDENCE

(276) 89 WOODLAND WAY, **PIEDMONT**; two-story 6-room frame residence and garage.
 Owner—G. Q. Chase, 37 Lincoln Ave., Piedmont.
 Architect—Not Given.
 Contractor—J. M. Walker, 1709 Grove St., Berkeley. \$8000

ALTERATIONS

(277) 2019 SHATTUCK AVE., **BERKELEY**; alterations.
 Owner—W. D. and E. A. Heros.
 Contractor—F. J. Westlund, 354 Hobart St., Oakland. \$1000

DWELLING

(278) 8 CARMEL ST., 91 W Rhoda Ave., **OAKLAND**; one-story five-room dwelling.
 Owner—Martin Nelson, 3897 Rhoda Ave., Oakland.
 Architect—Not Given.
 Contractor—R. D. McCabe, 3457 Foothill Blvd., Oakland. \$7700

DWELLING

(279) S PROCTOR AVE., 40-80 West Julia St., **OAKLAND**; two-story 6-room dwelling.
 Owner and Builder—W. A. Netherby, 3853 Lyman Road, Oakland.
 Architect—Not Given. \$4000

DWELLING

(280) W CENTINI ST. 390 NE 14th St., **OAKLAND**; one-story 5-room dwelling.
 Owner—Letitia A. Wells, 6129 Laird Ave., Oakland.
 Architect—Not Given.
 Contractor—E. Wells, 6129 Laird Ave., Oakland. \$3100

(281) NO. 436 BOYNTON AVE., **BERKELEY**. Two-story 6-room 1-family frame residence and garage.
 Owner—Hughes & Beach, 902 Washington St., Oakland
 Architect—Not Given. \$4000

DWELLINGS

(283) 10500-10526 BEVERLY Avenue, **OAKLAND**; two 1-story 6-room dwellings.
 Owner and Builder—C. W. Griffith, 1427 87th Ave., Oakland.
 Architect—Not Given. each \$4500

DWELLING

(284) W PIERSON ST., 243 N Morcom Ave., **OAKLAND**; one-story 6-room dwelling.
 Owner and Builder—August Roseberg, 1712 48th Ave., Oakland.
 Architect—Not Given. \$3100

DWELLING

(285) E 73rd AVE. 100 S Outlook Ave., **OAKLAND**; one-story five-room dwelling.
 Owner and Builder—Folke Wallin, 2429 13th Avenue.
 Architect—Not Given. \$2950

DWELLING

(286) S FLORENCE ST., 150 E Hermosa Ave., **OAKLAND**; one-story 6-room dwelling.
 Owner and Builder—Warn Bros., 419 E Merle Court, San Leandro.
 Architect—Not Given. \$3750

DWELLING & ALTERATIONS

(287) E MONTGOMERY ST. 300 S Mather St., **OAKLAND**; one-story 5-room dwelling and alterations to dwelling.
 Owner and Builder—Lorenzo Pomponia, 4370 Montgomery Street, Oakland—Not Given. \$3900

DWELLING

(288) NO. 2605 LAJOLLA AVE., **ALAMEDA**. One-story six-room frame and stucco dwelling.
 Owner—J. Emmel, 2516 Noble St., Alameda.
 Designer—N. F. Justice, 973 Pearl St., Alameda.
 Contractor—N. F. Justice, 973 Pearl St., Alameda. \$4500

RESIDENCE

(289) 2630-32 HILGARD AVENUE, **BERKELEY**; three-story 12-room 2-family frame and stucco residence and garage.
 Owner—G. J. Clark, 5808 Chabot Rd., Oakland.
 Plans by C. R. Madison, 1518 Leroy Ave., Berkeley.
 Contractor—H. H. Porter, 8 Norwood Ave., Oakland. \$10,000

DWELLINGS

(290) 5011-15 FAIRFAX AVE., **OAKLAND**; two 1-story 6-room dwellings and garages.
 Owner and Builder—F. W. Conlogue, 2607 64th Ave., Oakland.
 Architect—Not Given. \$6200

DWELLING

(291) E GLENBROOK DRIVE, 430 N Broadway Terrace, **OAKLAND**; 2-story 8-room dwelling.
 Owner and Builder—C. H. Thrams, 28 Home Place, Oakland.
 Architect—Ray F. Keefer, 3281 Lakeshore Ave., Oakland. \$13,000

FACTORY

(292) S 81st AVE. 386 W Ruddsdale Ave., **OAKLAND**; one-story factory and office building.
 Owner—Blue Bird Potato Chip Co., 68th and Beck Aves., Oakland.
 Architect—Chas. W. McCall, 14th and Franklin Sts., Oakland.
 Contractor—A. A. Haskell, 255 Ridge-way Ave., Oakland. \$27,485

DWELLING

(293) 1345 TRESTLE GLEN ROAD, **OAKLAND**; two-story six-room dwelling.
 Owner and Builder—Jas. M. Wheeler, 3750 Park Blvd., Oakland.
 Architect—Not Given. \$4750

DWELLING

(294) N CARLSTON AVE. 235 East Walla Vista, **OAKLAND**; 2-story 6-room dwelling.
 Owner—Empire Bldg. Co., 2442 Acton St., Berkeley.
 Architect—F. H. Slocombe, 62 York Drive, Oakland.
 Contractor—M. A. Rose, 2442 Acton St., Berkeley. \$8750

DWELLING

(295) W HIGH ST. 100 N Masterson, **OAKLAND**; 1-story 6-room dwelling.
 Owner—Albert Fulgham, 3667 High St. Architect—Not Given.
 Contractor—James G. Fisher, 3670 Lily St., Oakland. \$4700

ALTERATIONS

(296) 264 SEVENTH Street, **OAKLAND**; alterations.
 Owner and Builder—Gum Wing Woo, 264 7th St., Oakland.
 Architect—Not Given. \$2500

DWELLING

(297) 1216 SUNNYHILLS RD., **OAKLAND**; two-story 9-room dwelling.
 Owner—O. R. Lapham, 947 Hillcroft Circle, Oakland.
 Architect—Not Given.
 Contractor—Theo. H. Lapham, 546 Kenmore Ave., Oakland. \$15,000

ALTERATIONS

(298) 1714 BROADWAY, **OAKLAND**; alterations.
 Owner—Andrew Williams, Bowling Drive and Country Club Rd., Oakland.
 Architect—Edw. T. Foulkes, 357 12th St., Oakland.
 Contractor—Wilbur Cone, 1744 Broadway, Oakland. \$4000

DWELLING

(299) NE COR. MANDANA and Carl-son Aves., **OAKLAND**; one-story 6-room dwelling.
 Owner and Builder—W. B. Morris, 278 Lester Ave., Oakland.
 Architect—Not Given. \$5000

ALTERATIONS

(300) 3353 WILSON AVENUE, **OAKLAND**; alterations and addition.
 Owner and Builder—L. R. Conklin, 3353 Wilson Ave., Oakland.
 Architect—Not Given. \$1000

DWELLING

(301) N MONTEREY BLVD. 175 W Atlas Ave., **OAKLAND**; one-story 6-room dwelling.
 Owner and Builder—W. H. Warren, 3502 Foothill Blvd., Oakland.
 Architect—Not Given. \$4000

BUILDING CONTRACTS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
50	Blue Bird	Haskell	30135
51	Hainlin	Altermat	5500
52	Smith	Dawson	3594

BUILDING

(50) 8 81st AVE. 386-25 ft West of Ruddsdale St., Oakland; general construction on 1-story industrial building.
 Owner—Blue Bird Potato Chips, Inc., 68th Ave. and Beck St., Oakland.
 Architect—Chas. McCall, 1404 Franklin St., Oakland.
 Contractor—A. A. Haskell, 255 Ridge-way Ave., Oakland.
 Filed Mar 16, '31. Dated Mar 9, '31. 1st and 15th of each month.....75%
 Usual 35 days.....25%
TOTAL COST, \$30,135
 Bond, 15,968. Sureties, Standard Accident Ins. Co. Forfeit, \$5 per day. Limit, 90 days. Note: Permit applied for. Plans and Spec. filed.

STUDIO

(51) PTN LOT 43, Map of the property of Oakland Homestead Assn., Oakland; general construction on studio building.
 Owner—Walter E. Waters and Gene Hainlin, 372 11th St., Oakland.
 Architect—Not Given.
 Contractor—J. F. Altermat, 975 Euclid, Berkeley.

Filed and Dated March 16, 1931.
When floors are poured the and
forms are up.....25%
When roof sheathing is on.....25%
When building is completed.....25%
Usual 35 days.....25%
TOTAL COST, \$5500
Forfeit, \$5 per day. Limit, 100 days.

ALTERATIONS
(62) 2812 RUSSELL ST., Berkeley;
alterations and additions to residence.
Owner—Katherine Drew Smith.
Architect—Wm. W. Wurster, 260 California St., San Francisco.
Contractor—J. Dawson, 1597 Lincoln Berkeley.
Filed and Dated March 13, 1931.
When frame is completed.....25%
First coat of plaster.....25%
Nails accepted.....25%
Usual 35 days.....25%
TOTAL COST, \$3,524
Limit, 45 days. Plans and Spec. filed.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded Accepted
March 14, 1931—PTN BLK 16, William
ward Acres, Eden Twp. William
and Gladys Pruner to whom it
may concern.....March 9, 1931
March 14, 1931—LOT 1 BLOCK 11,
North Craigmont, Berkeley. American
Bldg & Finance Corp to H
Hooper.....March 10, 1931
March 14, 1931—SOUTHERN Pacific
Shipyards on Oakland Estuary,
Oakland. Southern Pacific Com-
pany to Haviside Company, Inc.....
March 12, 1931
March 14, 1931—NW 14th Ave. and
E 14th St, Oakland. J R L Jones
to whom it may concern.....25%
March 14, 1931—LOT 371 BLK 9, U
Perside Tract, Alameda. Arthur
M Stoker to Walter H Anderson.....
March 10, 1931
March 13, 1931—824 SAN DIEGO Rd
Berkeley. Frank H Felt to Self.....
March 7, 1931
March 13, 1931—LOTS 4 and 5 BLK
6, Map No 6 of Regents Park,
Albany. J E Quenzel to Self.....
March 11, 1931
March 13, 1931—LOT 55, Mt Vernon
Park Tract, Oakland. J G Roy to
O W Johnson.....March 5, 1931
March 13, 1931—3858 Fruitvale Ave.,
Oakland. J L Guy to C D Lyons.....
March 10, 1931
March 11, 1931—W DOYLE Street
285-15 ft S of Stanford Avenue,
Emeryville. Axel Johnson and
Mabel J Bogart to whom it may
concern.....March 1, 1931
March 12, 1931—PTN LOTS 27 and
28 Blk 3, Havenscourt, Oakland.
F W Conlogue to whom it may
concern.....March 15, 1931
March 12, 1931—4375 PROCTOR Ave
Oakland. W A Netherby to whom
it may concern.....March 10, 1931
March 12, 1931—45th & BROAD-
WAY, Oakland. Pacific Gillespie
System, Inc to Hutchinson Co.....
March 5, 1931
March 12, 1931—LOT 16, Requa
Highlands, Piedmont. R W Breun-
er to T D Courtright.....
November 11, 1931
March 12, 1931—4000 E EIGHTH St,
Oakland. Dewey and Almy Chem-
ical Co to Herbert K Henderson.....
February 23, 1931
March 11, 1931—CHANNING WAY
bet Milva St and Shattuck Ave,
Berkeley. Langendorf United Bak-
eries, Inc, to Barrett & Hig-
gins.....March 3, 1931
March 11, 1931—LOT 24, A Lane in
Spain, Oakland. John S Flagg to
whom it may concern.....Mar 9, 1931
March 11, 1931—401 FLEMING Ave
Oakland. Marvin S Sommer to
whom it may concern.....Mar 8, 1931
Mar 16, 1931—PPTY of Mrs Agatha
Zwissig on State Highway bet
Hayward and Niles. Dept of Pub-

lic Works, Division of Highways,
State of California to John E Os-
trander.....March 13, 1931

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
March 12, 1931—PTN LOT 21 BLK A, Grand Ave Heights, Oakland, Albert and Iver Blomgren vs T R and Marie L Dienger.....	\$115.64
March 12, 1931—1001 WARFIELD Ave, Oakland. Carl T Doell Co vs H W Merritt, E E and Rose Tooley	\$73.07
March 14, 1931—1001 WARFIELD ST Oakland. Cliff Gates vs H W Mer- ritt, E C and Rose Foley.....	\$74.56
March 13, 1931—PTN LOT 1 BLK A Grand Avenue Heights, Oakland. West Coast Window Shade Ser- vice, \$23; Ariss-Knapp Co, Inc, \$70, vs Theo R and Marie L Dien- ger.....	\$101.97
March 12, 1931—LOT F-132, Fair- way Estates, Oak Knoll, Oakland. Albert and Iver Blomgren vs T R and Marie L Dienger.....	\$101.97

RELEASE OF LIENS

Alameda County

Recorded	Amount
March 16, 1931—LOT 10 and N ptn lot 9, Amended map of Sunset Terrace, Albany. R H Cassell to Henry Nelson, Paul Snyder.....	\$505
March 16, 1931—LOT 11 and N ptn lot 10, Amended map of Sunset Terrace, Albany. R H Cassell to Henry Nelson, Paul Snyder.....	\$303
March 12, 1931—E LENOX AVE 350-55 ft S of Montecito Avenue, Oakland. Joseph and Marie Chi- antaretto to Albert and Emily Kroll.....	\$211

BUILDING CONTRACTS

SAN MATEO COUNTY

RESIDENCE
LOT 9 BLK 25, Easton. All work for
Six room and breakfast room resi-
dence.
Owner—Robert F. Williams et al, 160
Hooper St., San Francisco.
Architect—Not Given.
Contractor—G. W. Williams Co., Ltd.,
1404 Broadway, Burlingame.
Filed Mar. 11, '31. Dated Feb. 11, '31.
Acknowledged.....\$ 200
Frame up.....1550
Plastered.....1750
Completed.....1750
Usual 35 days.....Balance
TOTAL COST, \$11,300
Bond, none. Limit, 90 working days.
Forfeit, plans and specifications, none.

ALTERATIONS

PORTELLO ROAD, Woodside. All
work for alterations and additions
to frame and stucco gardner's
cottage.
Owner—Mary H. Somers, Premises.
Architect—Charles K. Summer, 57
Post St., San Francisco.

Contractor—Edward J. Schmallig, 863
Melville Ave., Palo Alto.
Filed Mar. 9, '31. Dated Mar. —, '31.
Frame up.....\$1550
Plastered.....1550
Completed.....1650
Usual 35 days.....1550
TOTAL COST, \$2900
Bond, limit, forfeit, none. Plans and
specifications filed.

STORES

PART LOT 1 BLK 14, Burlingame
Land Co. All work for two-story
concrete store building.
Owner—Dorothy M. Crawford, 408
Stockton St., San Francisco.
Architect—Not Given.
Contractor—G. W. Williams Co., Ltd.,
1404 Broadway, Burlingame.
Filed Mar. 11, '31. Dated Feb. 24, '31.
Basement wall poured.....25%
Enclosed.....%
Completed.....%
Usual 35 days.....25%
TOTAL COST, \$10,750
Bond, none. Limit, 90 working days.
Forfeit, \$5. Plans and specifications
none.

BUILDING CONTRACTS

SAN MATEO COUNTY

DWELLING

PART LOT 11-B, Rowe Estate, San
Mateo. All work for two-story and
basement frame and stucco dwell-
ing and separate garage.
Owner—Lucille H. Hunt.
Architect—Fring & Lesswing, 605
Market St., San Francisco, 2101
Contractor—William Short, 6125
Waverly St., Palo Alto.
Filed Mar. 14, '31. Dated Mar. 9, '31
Roof boarded.....\$3027.00
Brwn coated.....3027.00
Completed.....3027.00
Usual 35 days.....3027.55
TOTAL COST, \$12,105.55
Bond, none. Limit, 120 working days.
Forfeit, none. Plans and specifications
filed.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
March 9, 1931—LOT 23 and Part Lot
24 Blk 27, San Bruno. William
Loikam Jr to whom it may con-
cern.....March 7, 1931
March 9, 1931—LOTS 29, 30 AND
31 Blk 5, Central Park. James S
Foster et al to whom it may con-
cern.....March 7, 1931
March 10, 1931—MENLO PARK. Asso-
ciated Oil Co to Dyer Constr
Co.....March 5, 1931
March 10, 1931—STATE HIGHWAY,
Colma. Southern Pacific Co to
Steel Erectors Co, Ltd. March 6, 1931
March 11, 1931—STATE HIGHWAY
San Mateo to Redwood City. State
of California to Fredrickson &
Watson Constr. Co.....March 9, 1931
March 10, 1931—LOT 3 BLK 2,
Wellesley Park. Carolyn Cleme-
nts to Ashley S Powers.....
March 11, 1931

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
490 GEARY STREET

Phone FRanklin 9400

San Francisco

March 11, 1931—LOT 7 BLK 11, Lomita Park. Charles F. Lund to whom it may concern. March 5, 1931

March 11, 1931—LOT 9, Bay Shore Highway. Paul Werner to L A Belcher. March 11, 1931

March 12, 1931—LOTS 25 AND 26 BLK 12, Central Park, San Mateo. Edna Carrie Monroe et al to Leonard & Monroe

March 13, 1931—PART LOTS 31 & 32 BLK 7, Blossom Heath Manor, San Mateo. Castle Building Co to Henry Horn. March 10, 1931

March 13, 1931—LOTS 6 AND 7 BLK 48, Belmont. Arthur J Pattison et al to whom it may concern. March 9, 1931

March 13, 1931—LOT 19 BLK 8, Highlands of Emerald Lake Geo C Ogden to whom it may concern. March 12, 1931

March 13, 1931—LOT 9 BLK 14, Newbridge Park. Jannette May to J J Cook et al. March 13, 1931

March 13, 1931—LOTS 1 AND 2, BLK 2, Brookhaven. Louise Jaycox et al to John G Smith. March 13, 1931

March 13, 1931—TOWN HALL, San Carlos. Town of San Carlos to Moody J Henry. March 3, 1931

March 13, 1931—PHELPS HOME Sub. W F Chipman et al to Harry E Conner. March 11, 1931

March 14, 1931—LOT 25 BLK 4, Burlingame Grove. Geo W Williams Co to whom it may concern. March 2, 1931

March 14, 1931—LOT 19 BLK 128, South San Francisco. Marco Capitelli to Casimero Costa. March 13, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
March 12, 1931—LOT 36, Senic Heights, San Mateo. Frank Portman alias vs Carl Eder et al.	\$170.21
March 12, 1931—LOT 16 BLK 4, Vista Grande. M Rosen vs Peter McGrath et al.	\$950
March 12, 1931—LOTS 11 AND 12, Lomita Park. South City Lumber & Supply Co vs Irving C Barshaw	\$1442.55
March 13, 1931—LOT 36, Senic Heights. Saunders & W'ces, 387 66 Superior Tile & Products Co. \$104.30 vs Carl Eder et al.	
March 9, 1931—LOT 59, Studio Tract. Enn Mateo, Nelson & Shirkey Flaming Mill vs Joseph C Borda.	\$300
March 9, 1931—LOT 36, Senic Heights. D. & S. Lumber Co vs Carl Eder et al.	\$369 57
March 11, 1931—LOT 36, Senic Heights. San Carlos Feed & Fuel Co vs Carl Eder et al.	\$393.93

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded	Amount
March 14, 1931—LOCATION NOT Given. Adolph Bowman et al; R G Linville; San Mateo Feed & Fuel Co; W C Greene; Richard H Ild; Al Vigert; F M McNulty Lumber Co to L R Milne et al.	
March 10, 1931—LOCATION NOT Given. Gus Blomquist to James G Thompson et al.	
March 10, 1931—LOT 22 BLK 10, Crocker Tract, San Mateo. Leo Toge to A Milano.	
March 10, 1931—LOCATION NOT Given. A L Stockton Lumber Co to Gordon Thompson et al.	\$721.38
March 10, 1931—LOT 1 BLK 15; Lot 1 BLK 14, Hillcrest. California Construction Co to Accident Realty Co.	\$500

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$3000; No. 239 Seale Ave., Palo Alto; owner, C L Blacker, 243 Seale Ave., Palo Alto; contractor, P R Smith, 160 Cowper St., Palo Alto

LAUNDRY, Class C, \$7000; No. 260 Homer Ave., Palo Alto; owner, A F Dalton; contractor, W F. Goodenough, 310 University Ave., Palo Alto.

BUILDING PERMITS

REDWOOD CITY

APARTMENTS, 3-story and basement, frame (15 apts.), \$28,000; No. 29 Clinton St., Redwood City; owner, W. J. Bridgeland; contractor, Daley Bros., 1104 Vancouver St., Burlingame.

DWELLING, frame, 5-rooms, bath & garage, \$900; No. 1171 Fay St., Redwood City; owner, E. S. Rossette.

DWELLING, frame, 2-story 9-rooms bath and garage, \$13,500; No. 842 Edgewood Road, Redwood City; owner, L. A. Behrens.

DWELLING, frame, 6 rooms, bath and garage, \$7500; No. 37 Furness Dearth St., Redwood City; owner, E Strandquist, 229 Iris St., Redwood City.

DWELLING, frame, 6 rooms, bath and garage, \$4000; No. 253 Grand St., Redwood City; owner, David Holder, 30 Hillcrest St., Redwood City.

BUILDING PERMITS

SAN JOSE

ADDITION to class C office building, \$7600; 250 N Fifth; owner, Security Warehouse, premises; contractor, R. O. Summers, 17 N 1st St.

ALTERATIONS, interior, to Mission Theatre, \$7000; 8 1st near San Antonio; owner, Fox West Coast, 988 Market St., San Francisco; contractor, A. J. Hopper, Oakland.

REBUILT two-story steel and brick business building, \$15,000; 288 S Market St.; owner, F. Audruncet-ten, premises; architect, Chas. McKenzie, Twoby Bldg.; contractor, Wm. M. Caldwell, 1241 Hedding.

SERVICE station, gasoline, steel and glass, \$1900; The Alameda and Hanchett; owner, Blue and La France, 1194 Lincoln, Santa Clara.

RESIDENCE, 5-room frame, \$3000; Columbia near Bird; owner, Jos. Zotta, 655 Auzeiras; contractor, A. R. Calvelly, 855 Nevada.

RESIDENCE, 6-rm. frame, \$3750; McDaniel near Park; owner & builder, Wm. O'Neil, 1500 McDaniel.

AUDITORIUM, wood frame and stucco, \$9900; Naglee near Park; owner, Rosicrucian Order, 1242 Naglee; contractor, Paul Anderson, 1210 Lincoln.

RESIDENCE, 2-story 6-room frame, \$8750; Asbury near The Alameda; owner, G. Falaschi, 201 Commercial Bldg.; contractor, Geo. Kocher, 201 Commercial Bldg.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded	Accepted
March 11, 1931—LOT 6, Claremont Subd., San Jose. Kenneth Challen to whom it may concern.	March 11, 1931
March 11, 1931—LOT 10 BLK 35, Ethridge and Fuller Subd., San Jose. Bernhard Striegel to whom it may concern.	March 11, 1931

March 12, 1931—LOT 26, J. A. Norton Subd., San Jose. E J Smith et al to whom it may concern. March 10, 1931

March 12, 1931—LOT 4 BLK 4, Kenald Tract, San Jose. Ira Brotzman to whom it may concern. March 12, 1931

March 12, 1931—LOT 3 BLK B, Kenald Tract, San Jose. Ira Brotzman to whom it may concern. March 12, 1931

March 16, 1931—NW 100 FT. LOT 15 BLK 38, Seale Addition, Palo Alto. House & Osomson, Inc to whom it may concern. Mar. 10, 1931

March 16, 1931—LOT 3 BLK 2 N R 1 E, Gilroy; also part Lot 2 BLK 2 N R 1 E, Gilroy. Bank of America National Trust & Savings to whom it may concern. March 11, 1931

March 16, 1931—LOT 11 BLK 26, Lendrum Tract, San Jose. Jennie S Sullivan to whom it may concern. March 7, 1931

March 16, 1931—LOT 8, East Highlands Subd., San Jose. Arthur Clare to whom it may concern. March 16, 1931

March 7, 1931—LOT 18, Maurer Subd San Jose. Carl E Maurer to whom it may concern. March 5, 1931

March 7, 1931—LOTS 16 AND 17 BLK 204, South Court Addition, Palo Alto. Louis Baker Short to whom it may concern March 3, 1931

March 7, 1931—LOT 54, Barron Park, San Jose. C B Van Epps to whom it may concern. March 145, 1931

March 9, 1931—LOT 26 BLK 142, Embarcadero Oaks. Ruth Grove Schmalzing to whom it may concern. March 20 and S 1/2 Lot 19 L E. Appleton Addition, San Jose. Harry Postlethwaite et al to whom it may concern. March 9, 1931

March 10, 1931—SW S. F. ROAD and line bet. Lots 27 and 28 BLK 50 NW 2584 ft., SW 11478 SE 25 NE 108.55 ft. to beag Ptn Lot 27 BLK 50, College Terrace. M C and Mayilda A Lauridsen to whom it may concern. March 4, 1931

LIENS FILED

SANTA CLARA COUNTY

Recorded	Amount
March 11, 1931—LOT 30 BLK 93, Manlius Subd., Palo Alto. B C Hooker, \$154.80; Steve Anderson & Son, \$18.10; Merner Lumber Co, \$325.35; Frank A Grunert, \$170; Sunset Lumber Co, \$61.90; Tilden Lumber & Mill Co, \$811.66 vs J T and Minnie Evelyn Pate.	
March 11, 1931—LOT 2 BLK 2, Restwood Park No. 2, San Jose. Jack P Silva vs Andrew J Ogg.	\$23
March 13, 1931—LOTS 60, 83, 84, 85 and 86, Hamwood Subd., San Jose. Growers Lumber Co vs J S Mockbee et al.	\$488.8
March 13, 1931—LOT 4 BLK 6, Hawkhurst Addn., Palo Alto. The Lumber & Mill Co vs Thomas Garcia.	\$421.
March 13, 1931—LOT 22 BLK 2, Restwood Park No. 2, San Jose. Home Union vs A J Ogg.	\$36.
March 13, 1931—NE SANTA CLARA ST. and Notre Dame St., San Jose. Federal Ornamental Iron & Bronze Co vs San Jose Community Hotel Co (DeAnza Hotel).	\$1718
March 14, 1931—LOT 22 BLK 2, Restwood Park No. 2, San Jose. King-Russell Electric Co vs J. J. King.	\$51.
March 16, 1931—LOT 2 BLK 141, Embarcadero Oaks, Palo Alto. Jas H Daly vs Edna K and Elmer M Lenzen.	\$3

arch 7, 1931—LOT 22 BLK 2, Restwood Park No. 2, San Jose. Glenwood Lumber Co vs Andrew J Reg\$51.37
 ch 9, 1931—SE VILLA AV 209.43 (, S W Stockton Ave., San Jose. Williams & Russo vs Pete Cimolini\$24.35

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
 ch 11, 1931—593 AC, Part Laguna ca Rancho. Manuel Adrian to Avery Newton.....

BUILDING CONTRACTS

SONOMA COUNTY

ERVICE BLDGS.
 R 38 AND PART BLK 30, McDonal d Addition to Santa Rosa. All work for service buildings. (ner—Pacific Gas & Electric Co., 245 Market St., San Francisco. (litect—Not Given.
 (ntractor—J. B. Peterson.
 d Mar. 11, '31. Dated Mar. 4, '31. nd of each calendar month 75% usual 35 days..... 25%
 TOTAL COST, \$26,040
 nd, \$26,040. Surety, Massachusetts Bldg. & Surity Co., Limit, 90,000. Bond, 10,000. Plans and specifications filed.

ISIDENCE
 I DOMFIELD. All work for two-story frame residence. (ner—Mae M. Smith, Bloomfield. (ntractor—Berta Winter & Maury, 210 Post St., San Francisco. (ntractor—C. W. Shatto, Sebastopol. d March 9, '31. Dated March 6, '31 rance completed\$1401.75 (later on (in and out)..... 1401.00 (terior completed 1401.00 (all work completed 1401.00 (usual 3 5 days 1870.00
 TOTAL COST, \$7474.75
 d, none. Limit, August 1, 1931. (feit, none. Plans and specifications d e.

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 ch 13, 1931—NO. 520 MAPLE , Santa Rosa. D J Wilson to F Behn..... March 13, 1931
 ch 13, 1931—LOT 3 BLK 6, ractor Terrace, Santa Rosa. arl N Konlats to Mutual Home lders Assn..... March 12, 1931
 ch 7, 1931—LOT 5 BLK 4, Proc-r Terrace, Santa Rosa. Frank Miner to Mutual Home Builders Assn..... Oct. 3, 1930
 ch 9, 1931—LOT 2 BLK 6, Proc-r Terrace, Santa Rosa. A C and ce K Crosby to Mutual Home lders Assn..... March 9, 1931
 ch 10, 1931 — LOT 11 BLK 2, ractor Terrace, Santa Rosa. A Peterson to Mutual Home lders Assn..... March 9, 1931
 ch 14, 1931—LOT 12 BLK 2, Proc-r Terrace, Santa Rosa. Harry and Helen M Meline to Mutual ome Bldrs Assn..... March 14, 1931

LIENS FILED

SONOMA COUNTY

Recorded Amount
 ch 13, 1931—16 ACRES, between nta Rosa and Petaluma Road. erling Lumber Co vs L Nelson; rine Nelson and S Swanson..... \$277.42 and interest

BUILDING CONTRACTS

CONTRA COSTA COUNTY

CHURCH
 LOTS 3, 4, 5 AND 6 BLK 59, City of Pittsburg. All work for Saint Peter Martyr Church. (wner—Roman Catholic Archbishop of San Francisco, Corp. Sole, 1100 Franklin St., San Francisco. Architect — Arnold Constable, 580 Market St., San Francisco. Contractor—Larsen & Larsen, Russ Bldg., San Francisco. Filed Mar. 13, '31. Dated Mar. 11, '31. On 1st of each month..... 75% Usual 35 days 25%
 TOTAL COST, \$55,550
 Bond, \$55,500. Surety, Aetna Casualty & Surety Co.; Limit, forfeit, none Plans and specifications filed.

DWELLING
 LOT 3 BLK 239, Central Addition to Pittsburg. All work for six-room dwelling and garage. (wner—Arthur and Bertha Bernstein, Pittsburg. Architect—Not Given. Contractor—Fred G. Henderson, 2323 Esmond Ave., Richmond. Filed Mar. 11, '31. Dated Mar. 9, 31. Floor joists laid 1/4 (When plastered 1/4 (Completion filed 1/4 (Usual 35 days 1/4
 TOTAL COST, \$6160
 Bond, limit, forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 March 5, 1931—LOT 3 BLK 219A, (Central Addn to Pittsburg. Antonio B Davi to V A Davi..... March 2, 1931
 March 9, 1931—S GARVIN AVE About 96 ft. W Ventura Ave, being Lot 3 Blk 26, East Richmond Blvd Improvement Bond Co, Ltd to Improvement Bond Co, Ltd..... March 7, 1931
 March 9, 1931—LOT 3 BLK 219-A, Central Addn to Pittsburg. Antonio B Davi also known as A B Davi to V A Davi..... March 4, 1931
 March 9, 1931—W COURT ST., Martinez. Alhambra Union High School District to Ink Ribbon Mfg Co..... Feb. 25, 1931
 March 11, 1931—DESCRIBED PARcel in Martinez. E W Merrithew to Wallace Snelgrove. Mar. 5, 1931
 March 11, 1931—LOT 31 BLK 202, (Central Sub No. 2, Pittsburg. Joseph E and Maria J Antrobus to Martini & Bennett. Mar. 9, 1931
 March 16, 1931—LOTS 12 AND 13 BLK 196, Walls Addition to Richmond. Joe Gava, 4200 Wall Ave., Richmond to John Faramia..... March 16, 1931
 March 16, 1931—WALNUT CREEK Trojan Engineering Corporation, on behalf of California Water Service Co to E H Mellencamp. (pump station building). Mar. 9, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 March 2, 1931—LOTS 23 & 25 BLK A, New Richmond Addn. Standard Plumbing & Heating Co vs John Ambrosio\$509.40
 March 4, 1931—LOT 18 BLK 12, Alvarado Tract. Markus Hardware Co vs S Butler\$48.85
 March 5, 1931—LOTS 23 AND 25 Blk A, New Richmond Addn. J F Snyder and J E Haxton vs John and Ennie Ambrosio; Frank Lawrence and C Valline.....\$975

March 9, 1931—LOT 27 BLK 4, Martinez Park. T J Kennedy vs Eugene Dwyer and West American Finance Co.....\$40
 March 14, 1931—LOT 13 BLK 12, Alvarado Tract. Peerless Stucco Co vs S Butler.....\$74.82
 March 14, 1931—LOTS 23 and 25 Blk A, New Richmond Addition. Robert Doran (as Richmond Supply Co) vs C Valline and Frank Lawrence, John and Ennie Ambrosio\$395.84
 March 16, 1931—SECTIONIZED Property. J J Reid Co vs Byron Hot Springs Co.....\$133

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
 March 16, 1931—LOT 5 BLK 68, Map of Underwood Subdivn of Blk 68 City of Monterey. Cristoforo Palmo to Albert Gatti..... March 10, 1931

RELEASE OF LIENS

MONTEREY COUNTY

Recorded Amount
 March 5, 1931—LOT 14 BLK 5, Map of Lake Terrace, Lot 4 of Rancho Noche Buena. N A Pezolaro to P M Lehman and Herbert G Muyes\$4.50

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
 March 9, 1931—LOT 17 BLK 6, Lomita Park. J M Helderbrand to whom it may concern March 5, 1931

LIENS FILED

SAN JOAQUIN COUNTY

Recorded Amount
 March 3, 1931—PTN SECTION 34 T 4 N R 6 3, Woodbridge. B S Davis vs Samuel Sebastiani, Salvatore Castorina, C M Dragore\$1135.45

BUILDING PERMITS

SACRAMENTO

DWELLING and garage, \$5000; 2669 Land Park Drive; owner C. Ruty 4800 T St.
 RESIDENCE and garage, \$6000; 3932 M St.; owner F. Gessner, 2305 23rd St.; contractor, O. M. Froling, 1625 40th St.
 DWELLINGS, 3, and garages, frame and stucco, \$4250 each; 1149-50-60 Perkins Way; owner and builder, Land Drive Terrace, 1100 Robertson.
 HOUSE and garage, \$4500; P Street bet. 40th and 41st; owner, F. Segestrstrom, 1911 45th St.; contractor, O. M. Froling, 1625 40th St.
 RESIDENCE and garage, \$5000; No. 521 46th St., Sacramento; owner, A. F. Green, 913 30th St., Sacramento.
 RESIDENCE and garage, \$4000; No. 1801 Fourth Ave., Sacramento; owner, S. W. and E. Mackeney.
 REPAIR fire loss, \$1000; No. 306 J St., Sacramento; owner, Hubstaller Estate, Premises; contractor, A. J. Fisher, 800 25th St., Sacramento.
 HOUSE and garage, \$6500; No. 1528 41st St., Sacramento; owner, Griffith & Hunter, 2825 S St., Sacramento.
 GENERAL repairs of fire loss, \$2500; No. 1127 W St., Sacramento; owner, Mr. Lamarau, Premises; contractor, A. J. Fisher, 800 35th St., Sacramento.

DWELLING and garage, \$6000; No. 1901 Fifth Ave., Sacramento; owner, E. Estrada, 2936 19th St., Sacramento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
 March 13, 1931—LOT 4 Blk 30, Woodlake Addn No 1, Sacramento. Eric Austin to whom it may concern.....March 12, 1931
 March 11, 1931—N 75 FT. LOT 14, Reese Villa, Sacramento. William Tompkins Smith to whom it may concern.....March 9, 1931
 March 12, 1931—LOT 10001 Fruit Ridge Park. Angie China to whom it may concern.....March 9, 1931

BUILDING PERMITS

FRESNO

DWELLING, \$1800; No. 502 Yale Ave., Fresno; owner, Marie Meyer.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 March 14, 1931—LOTS 21, 22 AND 23 Blk 2, Osburn Terrace, Fresno. Taylor-Wheeler Inc to whom it may concern.....March 14, 1931
 March 14, 1931—LOT 1, E 14,817 ft. Lot 2 Blk 2, St. Francis Wood. J C Jones to J D Shorb.....Mar. 12, 1931
 March 14, 1931—LOTE 32 AND 33 Blk 27, Sierra Vista Addition, Fresno. Denver S Ellis to whom it may concern.....March 13, 1931
 March 14, 1931—LOTS 15 AND 16, Fairland Addition, Fresno. Taylor Wheeler Inc to whom it may concern.....March 13, 1931
 March 14, 1931—LOTS 17 AND 18 Blk 1, Yale Addn, Fresno. Alvin Popp to whom it may concern.....March 11, 1931
 March 13, 1931—LOTS 14 AND 15 Blk 10, College Addn. Carl Gustafson to whom it may concern.....March 12, 1931
 March 10, 1931—LOTS 29 AND 40 Blk 70, Sierra Vista Addition No. 4, Fresno. A J Powell and A M Weathers to whom it may concern.....March 7, 1931
 March 10, 1931—LOTS 21, 22 AND 23 Blk 7, Orchard Hill Addition, Fresno. General Petroleum Corp of Calif to J T Cowan.....Mar. 3, 1931

Advancing the country's construction needs is becoming from month to month a more important problem with so far no satisfactory solution anywhere in sight. President William Schlake, of the Common Brick Manufacturers' Association, in his annual address before the national convention of the organization in Philadelphia last month, offered what appeared to be a plausible and possible answer, although the various divisions of the construction industry would have to be brought to a far keener appreciation of their responsibilities than is now being evinced before it could be successful.

Schlacke declared that the big question facing the industry is whether it shall have continuous employment or unemployment; prosperity or hard times. Lower wages and lower material costs, he insisted, was not the answer. The ultimate solution will be found in high wages, better prices and a greater and steady buying power, with a portion of profits and earnings devoted to construction financing. And even present wages and prices will not remain at their present levels if business does not improve.

The lenders of money, the banks, building and loan associations, etc., had tightened up on loans. Not sufficient first mortgage money was available to permit construction to proceed normally. The gap between the funds available and the first mortgage must be bridged, and there is no longer a market for second mortgages. So it became constructions own task to find a way out of the dilemma.

The country is not over-built, Schlacke declared. Every year the population increases sufficiently to require construction sufficient to replace a city the size of Los Angeles, residences, churches, public buildings, everything. And today labor, materials, land, all is cheaper than a year ago, yet construction languishes. No funds.

Construction must finance itself, he declared. To the last man, from laborer to material manufacturing company president, every man dependent upon the construction industry should contribute a portion of his earnings or income to a financing fund to enable construction to throw away its crutches and walk.

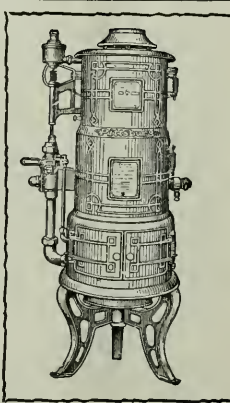
Just by way of illustration he suggested that the workman who earned \$2500 a year should obligate himself to take \$250 worth of stock in a Construction Investment Trust, payable at the rate of \$5 a week. That would be far easier than finding another job once his present one succumbs to the depression.

Reports of new orders for fabricated structural steel for the week ending February 21, 1931, were received from 105 establishments, whose capacity represented 45.8 per cent of the total capacity of all plants in the United States. The bookings reported by these establishments amounted to 12,455 tons, representing 29.4 per cent of the total capacity of the reporting establishments. Reports of shipments of fabricated structural steel for the same week were received from 101 establishments, whose capacity represented 44.2 per cent of the total capacity

of all plants in the United States. The shipments reported by these establishments amounted to 17,763 tons representing 43.6 per cent of the total capacity of the reporting establishments.

A Committee on Commissions and Fees, which will make a study of really commission schedules of 6 real estate boards is announced. President Harry S. Kissell, of the National Association of Real Estate Boards. The Committee is headed by Albert H. Wetten of Chicago, and is determining to what extent variations now exist in commission schedules throughout the country, will work out the best methods of building a schedule of charges, and will consider practical aspects of a national standard schedule for real estate machinery for building commissions. Schedules may be developed by the Committee, that will be helpful to Association member boards, even if specific rates are not included, according to Mr. Kissell. The Committee may consider the value to the real profession of adopting "at least more standardized" basis of compensation for realtors, according to Mr. Kissell, who cited the benefits to the architectural profession in the development of their standardized rates. The Sub-Committee on this subject also has been appointed with Mr. Wetten as Chairman to study the preliminary analysis of commission schedules already prepared by the Association. This Committee will report the full Committee at a special meeting to be held in Chicago at some later date.

M. C. Poulsen of Los Angeles, engineer for the Clay Products Institute of California, addressed the San Francisco County Builders Exchange on Friday evening on the advantages a building code to a community, pointing out the necessity of supervising building to assure safety and general welfare to the residents of a community. He also urged the importance of uniformity in building laws.



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VALLEJO BUILDERS WILL CAMPAIGN FOR BUSINESS RESUMPTION

General contractors, sub-contractors and material dealers of Vallejo at a meeting last Friday evening mapped an educational campaign to acquaint prospective builders with the unity of building during the coming months.

Low building material prices and unlimited competition in the bidding of contractors assuring low cost construction bids, will be one of the aims to be stressed upon.

Prospective builders will be urged to patronize Vallejo dealers and contractors rather than to spend their money with out-of-town contractors.

First steps towards the organization of a Builders' Exchange were taken with the election of Frank Amb as president; George Barenchi, vice-president; R. V. Morris, secretary-treasurer, and Fred Barnewitz, sergeant-at-arms. A committee on by-laws is composed of George Barenchi and D. J. Jordan, with Ed Johnson and Sam Weeks named as a committee on building code.

PUBLIC BUILDING LABOR ORDINANCE BEING CONSIDERED

James F. Hoey, district attorney of Contra Costa County, is considering an ordinance presented to the county supervisors by Supervisor James N. Ong, providing that Contra Costa county labor shall be given preference on public building projects. The tentative draft of the ordinance was issued by the supervisors and submitted to Hoey for study and ratifying to eliminate possible legal objections.

The ordinance as submitted contains the following provisions:

"That in every contract for the performance of labor, eight hours shall constitute a day's work;

"That the contractor and all sub-contractors under him shall pay their employees on said work a salary or wage at least equal to the prevailing salary or wage for the same quality of service rendered to private persons, firms or corporations under similar employment in Contra Costa county;

"That any person performing labor in the execution of said contract shall be a citizen of said United States or has declared his intentions of becoming such;

"That preference in the performance of labor under such contract or other arrangement shall be given persons who actually reside in Contra Costa county and shall have so resided for the period of one year next preceding the date of the engagement to perform labor here under."

STANDARDIZED HOMES FORECAST FOR FUTURE

The next quarter of a century will find Americans dwelling in houses of standardized design—houses that will be much cheaper to build—Frank A. Vanderlip, New York banker, declares.

"Reduction of the cost of homes will be a sharp step toward bringing America the permanent prosperity it deserves," Vanderlip says.

A weak system of distribution, coupled with the after effects of the war, caused the present depression, and the country must work out a new and more effective distribution if it is to avoid a repetition of the business slump, he says.

"Distribution is the most costly of all our processes," Vanderlip says. "Whereas the country has accomplished a great advance in production, cost of distribution continues to mount higher and higher."

REDWOOD CITY TO FAVOR LOCAL LABOR

An ordinance which has for its purpose the protection of local labor on public improvements has been presented to the council of Redwood City by the Carpenters' Union of that community. The ordinance, recently adopted by the city of Palo Alto, provides for the payment of the prevailing wage scale for mechanics and laborers and gives preference to local labor.

The ordinance further provides that the contractor performing any public work must file an affidavit with the city authorities, giving the number of skilled and other class of labor employed, the residence of those employed and no settlement shall be made with the contractor until such affidavit has been filed, ten per cent of amount due the contractor being withheld by the city until such affidavit is filed.

A penalty of \$10 a day is provided in the ordinance for each laborer employed in violation of any provision of the ordinance.

BALTIMORE ENGINEERS OPPOSE REGISTRATION

Members of the various engineering societies of Baltimore, at a recent meeting, decided to oppose passage by the Maryland general assembly, now in session, of legislation requiring registration or licensing of engineers and land surveyors. It has been stated that such a bill will be introduced. The meeting was attended by representatives of the Baltimore sections of the American Institute of Electrical Engineers, Civil Engineers, Mechanical Engineers, Baltimore Chapter, Illuminating Engineering Society; and the Maryland sections of the American Chemical Society and the American Institute of Chemical Engineers.

SONOMA COUNTY BUILDERS AIM TO KEEP WORK AT HOME

The Santa Rosa Builders' Exchange has called a mass meeting of citizens and business men to consider ways and means of promoting the building business in Sonoma County.

It is also proposed to work out legislation or other means by which local contractors and local material dealers will secure the major portion of Sonoma county business.

Heretofore, according to members of the exchange, outside firms have been securing a great portion of the local building contracts. This has been due primarily to the fact that the local men have not been properly organized. The Builders' Exchange of Santa Rosa was recently organized with a view to correcting these conditions.

The meeting will be held in the Press-Democrat Social Hall.

FOUR SEEK CITY MANAGER POSITION

Three candidates have officially filed application with the Alameda city council seeking appointment to the position of city manager, which office will be vacated by Clifton E. Hiekk on April 21. One candidate, whose name is not disclosed, conferred with the mayor but withheld filing his application pending investigation of the duties of the position.

The first application received was that of Col. S. E. Smiley, U. S. A., retired, who resides in Chicago. Col. Smiley, a former army engineer with a record of service in the Philippines, Cuba, China and France, gave references the names of Col. David P. Barrows, professor of political science and former president of the University of California; Prof. Samuel C. May, director of the Bureau of public administration of the same institution; Maj.-Gen. Hunter Liggett, U. S. A., and City Manager C. M. Dorton of Monterey, president of the City Managers Association of California.

Ralph Bennet, consulting engineer of the City of Los Angeles, was the second candidate to file an application with Mayor Schaefer. Bennet set forth among his qualifications that he was chief engineer in charge of the building of the town of Torrance, Cal., former chief engineer for the Great Western Power Co. and former chief electrical engineer of Southern California Edison Company.

The third application came from P. F. Hopkins, city manager of Mason City, Iowa.

The annual convention of the American Institute of Architects will be held at San Antonio, Texas, April 14, 15 and 16. Headquarters will be maintained at the Menger Hotel.

QUASI-PUBLIC WORKS GREATEST FIELD FOR CONSTRUCTION ACTIVITY UNTIL CONSUMER BUYER POWER RETURNS

The greatest hope for sustained building activity for the next five to ten years is to be found in those types of construction that serve a community need but are conducted by private business enterprise with the cooperation of public authority, according to Dwight L. Hoopinger, Executive of New York, Executive of the American Construction Council and Vice-President of the Consumer Credit Institute of America, Inc. Until bulk buying power returns to the masses, this type of construction, or what may be termed quasi-public works, offers the greatest potential source of capital funds for ownership and investment purposes with which to prosecute building operations. These conclusions were reached from the results of a joint national survey just completed by these two organizations on the relation of consumer buying power to possible construction outlets.

Simultaneously, it was announced that the American Construction Council through M. Hoopinger has addressed a communication to 1000 prominent men in the construction industry and other lines of business inviting them to join in a national movement for the revival of private enterprise in stimulating a return to prosperity.

"Only by the leaders of industry taking the bit in their mouth instead of relying upon governmental panaceas can economic recovery be secured," Mr. Hoopinger declared. "What we need to do is to face the situation according to the facts and with full recognition of sound business methods.

"Ever since the economic debacle of 1929, great emphasis has been placed upon the need for public authorities—local, state and federal—to bring out public works of one kind or another as a pulmotor for resuscitating the water-logged lungs of our fallen hero—prosperity. Closely allied to these undertakings has been an appeal to such stimulus as public utilities of various classes can give through their own construction operations.

"All of these projects, of course, serve a splendid purpose for today, in order to get the giant of construction back on his feet. But in all of this we must compositely but none the less definitely remember that Jones pays the freight," and think of tomorrow. If it is some public works project to be financed, Jones simply digs into his pockets to extract more taxes, in which event he can give voice to his own desires and in the end get just millions perhaps. In this he is usually patient and in times of crisis even eager to do his additional bid if it will help the common good.

"Likewise if it is a public utility, Jones still has to pay the bill. But in this case he can give his own accord raise his voice by reducing his use of the service or commodity involved.

"In either case, if Jones doesn't have the money to pay, he can't pay, and even though he has some financial reserves and is willing to do all he can, there is a limit to the burden which he can be asked to carry.

"All of this means that without consumer buying power, or money in the pocket-books of the masses, industry as well as government cannot expect to continue to sustain its rev-

"This raises the question as to which is the prosperity hen and which is the prosperity egg in public works? They may pick up before the masses can regain their buying power, but can the state continue to tax its people more and more before they regain their earning power? And can the people regain their earning power without the state continuing to tax them in order to stimulate industry so as to give them work?"

"Other types of construction, such as those involved in the building or housing of homes by wage earners present in the main much the same situation from the financial angle. The wage earners of the country as a body cannot be expected to enter the great field of home ownership on a large scale until the payrolls of industry first pick up.

"Although there is a great potential need for the right kind of homes of moderate price for the great mass of American wage earners—a need that was never more than hardly scratched all during the big building boom of the past decade—these representatives of bulk buying power for home ownership do not at the present time have the money to make the necessary cash down payments on homes nor to be able to plan to continue the payments month by month and year by year to prevent their losing these homes, even if they should be able to pay the initiation fee into the great American Home Owners' Club.

"Careful surveys show that tragedy has already stalked upon thousands and thousands of home-owners thru-out this country during the past two years through the loss of their savings because of their inability to keep up the necessary payments on their homes. Something over and above an abundance of mortgage money is necessary for the stimulation and protection of home ownership, and that something is sustained buying power of the masses.

"Modernizing of homes and other existing structures is a worthy and possible source of building operations at the present time, but here again the scope of this type of work is limited to only those families or organizations that have a sufficient capital reserve to undertake them and in many cases these expenditures will of necessity have to be less extensive than they otherwise would be.

"It is possible of course to discount future needs and resources in public works, as well as in private construction where the company's or individual's liquid reserves are sufficient to enable doing so. This is helpful provided it is done for constructive purposes.

"It is very essential, however, that we recognize this rejuvenating process for just what it is, and also bear in mind that it tends to restrict the future demand for construction except insofar as our expanding needs will justify in turn an expanding program of construction of these various types. In this connection it is perhaps the part of wisdom to recall that the 'God of Expansion' at whose feet we recently worshipped in awe exploded in our very midst. Any reliance on this situation must be avoided.

"Legitimate economic needs must not be forgotten, and the timeliness of these needs must also be considered. The tempo of construction is just as important as the theme, and this is

just as true for the construction of public and private works as for any other economic or social or political movement. Over-lazing may bring untimely exhaustion and collapse!

"In addition to meeting a real need, construction activities should be conducted according to the proper standards of men, money and materials.

"Here is where the enters the function of quasi-public works as found for example in the relief of our housing menace in congested urban areas thru the rebuilding of obsolete tenement and slum districts. This type of building operations not only fills a great need but can be properly sustained over a period of years through the employment of private capital and investment in well conceived and well executed projects.

"All this is necessary is a proper plan and a willingness on the part of the building investing public with the cooperation of public authorities, to proceed step by step with these projects in the various localities of the country.

"The American Construction Council, representing all elements affecting the construction industry nationally including the public, has been conducting a general survey of existing conditions, and definite standards of tenement and slum clearance have been developed in cooperation with other authorities. Commendable examples of specific projects already under way or completed in some localities have been analyzed and these findings are being made available to the public as a part of the Council's service as a national clearing house of information and research on the subject.

"Among the essential steps is the recommendation that these obsolete tenement and slum districts should be rebuilt primarily by private business enterprise with financing on a non-speculative basis, and that there must be the necessary local financing agencies and ownership corporations to carry out the specific projects.

"It is also recommended that every community should lay down a definite program embracing all these and related factors including careful regional planning and zoning provisions, looking toward the proper rebuilding of its slum and semi-slum districts.

"Such a program in cooperation with the proper authorities through proper enabling and protective legislation should furnish from fifty billions to one hundred billions of dollars of new construction and employment to many thousands of workers over a ten year period and thereby contribute in a large way to the maintenance of the nation's prosperity."

SOVIET HARDWOOD FOR COAST PORTS

Exportation of Siberian hardwood to Pacific Coast ports is planned by the Soviet government as soon as exploitation of the forests in the Vladivostok district can be arranged. This is the word received in San Francisco from representatives of the Amtorg Trading Company.

Last year, Japanese shippers took 110 loads of hardwood from Vladivostok, re-exporting it to the United States. It is planned to send the lumber in the future direct to California ports.

SENATE BILL 376 SHOULD GET SUPPORT

Two characteristic problems of the present day building industry are:

The irresponsible or visionary speculative builder, owner or contractor. The many unscrupulous money lenders who contrive to divert large portions of building loans from legitimate construction purposes without showing said diversions on record.

"Confidence is thus destroyed in the industry," says a report submitted at the semi-annual convention of the California State Builders' Exchange at Fresno last Saturday, "especially in so far as pertains to junior financing arrangements and these complications are such as to be in our opinion very often beyond the ability of the usual credit departments to investigate.

"The losses effect every class in society involved therein, the reckless borrower who promises thus to repay for what he did not actually receive, stockholders of reckless lenders who expect payment for what they did not loan and material dealers who do not have the inside information and are thus defrauded by false appearances of building credit arrangements permitted under the present state of the recording laws of California."

The committee, in submitting the report, urged that the industry get behind the legislation proposed in Senate Bill No. 376, as amended, providing for compulsory disclosure of the public record of actual building loan arrangements.

WAGE CUTS HURT BUSINESS RECOVERY

A warning against widespread wage cuts as an aid to business recovery is sounded by "Business Observer," house organ of the Foreman-State National Bank, Chicago.

"The movement to reduce wages in the interest of business recovery appears to be unsound," the bulletin states. "By permitting wages to hold, while prices decline, purchasing power will be enhanced and such commodity prices as have already fallen beyond the general trend of prices will tend to be brought back in line, but only if wage costs entering into them are not reduced.

"On the contrary, if wage reductions were to become a widespread policy at the present time, it would undoubtedly intensify the commodity price recession, curtailing buying power still further and prolong the depression."

FATALITIES ON LARGE BUILDINGS

Much progress has been made in recent years in reducing the number of accidents on large building operations, and still further progress in lowering the number of fatalities on construction jobs may be expected, says Fred T. Ley, president of Fred T. Ley & Co.

"A man killed for every story used to be the commonplace in skyscraper construction fifteen or more years ago," said Mr. Ley. "Now safety work has reached the point where, in the erection of the Chrysler Building, there was but one fatal accident in seventy-seven stories of construction. During a three months' contest there were no fatalities, and not even a minor accident compelling a man to quit work for an hour."

"Safety on a construction job is accomplished chiefly by two means, careful planning and careful education of workmen."

Arterial Highways For S. F. Bay Bridge Project Are Outlined

Adding a clause suggested by Walter N. Frikstad, city engineer of the Oakland city council approved the report of engineers of Alameda county municipalities outlining the arterial highways required for access to the eastern terminal of the proposed San Francisco bay bridge.

Engineering News - Record of New York, in the current issue, comments on the San Francisco Bay Bridge and approach roads as follows:

"The influence of important bridges extends far beyond their approaches. Realization of this fact is sometimes tardy and necessary revamping of regional traffic systems too long delayed, resulting in congestion and inefficiency. At present it seems to be a possible danger that something of this sort may befall the San Francisco-Oakland bridge project. Progress on the actual bridge planning has been both rapid and well directed since the favorable report of the Hoover-Young commission six months ago. Requirements of the war and navy departments apparently have been satisfied, although the former has yet to consider the final plans and specifications. An act of Congress is necessary to provide a right-of-way across Goat Island, but with no official objections from either the navy or the war department the Kahn bill granting such right should meet slight opposition. Local opposition has been quieted by increasing the span length and clearance proposed for the east end of the bridge, as requested by the Oakland port authorities to protect their harbor development, and the East Bay region is now solidly behind the project. Meanwhile steps are being taken to test the validity of the state toll-bridge authority act, upon which the sale of \$70,000,000 worth of revenue bonds depends. These developments denote progress, but in the meantime the public seems to be about ready to sit back and watch for the rise of tall piers and the erection of steel. Herein lurks a possible danger that those directing the project should not overlook. The bridge project itself is in able hands and may be expected to go along well, but municipal officials and the public at each terminus should be made to appreciate the task of equal or greater complexity that confronts them in preparing new transportation routes and facilities. Much needs to be done in the way of study and planning for these far-reaching alterations in the traffic systems of these two metropolitan areas if the maximum advantage of the bridge is to be realized. Unless this work keeps pace with plans of the actual structure, serious and inexcusable complications will result and the full value of the bridge as a traffic artery may not be realized."

Uncle Sam is losing no time in getting construction under way on the Sunnysvale Naval Air Base in Santa Clara County.

Bids will be received by the 12th Naval District on April 8 for wood and concrete test piles and core borings in connection with the project.

The Feather River Lumber Company has filed a complaint with the Railroad Commission against the Western Pacific Railroad Company, alleging that defendant carrier collected excessive rates for the transportation of carloads of logs from Gulling to Portola, Plumas County, and asking the Commission to award reparation in the amount that such charges exceeded \$1.25 per 1000 feet.

MILLION DOLLAR BRIDGE BIDS ASKED

Bids will be considered by the Los Angeles Board of Public Works on April 29 to construct the Sixth Street Viaduct over the Los Angeles River. The structure will cost in the neighborhood of \$1,000,000, according to Merrill Butler, chief bridge engineer for the city.

Bids will be considered for (1) entire job complete; (2) fabrication and delivery of the structural steel; (3) erection of structural steel; (4) all remaining work, referring to (2) and (3).

Construction will involve 8,000,000 pounds of reinforcing steel; 47,300 cubic yards of Class F concrete; 500 cubic yards of Class G concrete; 870 15-ft. concrete piles (precast or cast in place); 1200 tons of structural steel and other miscellaneous items.

The bridge will be of the girder span type with structural steel river span, a total length of 3500 ft. The bridge proper will be 46 ft. and at the approaches 56 ft. wide. East of the river the bridge will be 60 to 80 ft. above the street level.

TWO WAGE CUTS— SEVERAL INCREASES

In spite of continued unemployment in the building trades, there are still some increases reported, says the General Building Contractor.

The more important are those of Rochester, N. Y., where six trades received increases ranging from five cents to seven cents per hour, and that of Pittsburgh, giving steamfitters and plumbers an increase. Part of these increases are offset by decreases in Buffalo, N. Y., and Memphis, Tenn.

However, in spite of these reported increases in the official scale it has been noted that tradesmen are working considerably below this scale.

An instance in Memphis, Tenn., where the official scale for tile setters was increased from \$1.25 to \$1.37 $\frac{1}{2}$ per hour; at the same time many tile setters are working for 62 $\frac{1}{2}$ cents per hour.

Reports from other cities state that current bids indicate many contractors are paying a rate below the local scale.

Salt Lake City, Utah, reports that ironworkers have demanded an increase of one dollar per day and the five-day week; the latter being demanded by carpenters also. Both demands have been rejected by the contractor.

Recent changes in wage scales follow:

Decreases
Buffalo, N. Y., sheet metal workers, from \$1.25 to \$1.20.
Memphis, Tenn., plasterers' tenders, from \$.75 to \$.62 $\frac{1}{2}$.

Increases
Memphis, Tenn., cement finishers, from 1.00-\$1.25 to \$1.25-\$1.25; sheet metal workers, from \$1.25 to \$1.37 $\frac{1}{2}$; tile setters, from \$1.25 to \$1.37 $\frac{1}{2}$.
Pittsburgh, Pa., plumbers, from \$1.62 $\frac{1}{2}$ to \$1.71 $\frac{1}{2}$; steam fitters, from \$1.62 $\frac{1}{2}$ to \$1.70.
Rochester, N. Y., carpenters from \$1.20 to \$1.25 $\frac{1}{2}$; electricians, from \$1.37 $\frac{1}{2}$ to \$1.44 $\frac{1}{2}$; plumbers, from 1.43 $\frac{1}{2}$ to \$1.50; roofers, (composition), from \$1.10 to \$1.15; roofers, (slate and tile), from \$1.10 to \$1.15; sheet metal workers, from \$1.43 $\frac{1}{2}$ to \$1.50.

Come-to-Grief-Arctman—I was trying to make a record. Farmer—Well, you've made it. You be the first man in these parts who climbed down a tree without having to climb up it first.—Passing Show.

THE OBSERVER

What He Hears and Sees on His Rounds

Henry Ford says: "Production without safety is inefficient. Accident prevention is an essential part of the industry program; accidents are absolutely unnecessary."

The city council of Stockton is considering adoption of an ordinance to provide local labor on public projects providing that they are sufficiently skilled to handle the work. The ordinance sets forth that the working and wage scale shall be equal to that prevailing under similar employment in Stockton. The measure has been laid over for 30 days pending a study as to its legality.

The New York State Department of Labor, during the year ending June 30, 1930, made closing awards in 105,848 cases of industrial injuries. The amount of the awards totaled more than \$35,000,000. Number of cases closed was greater by 9,386 than in the previous year, and the amount of compensation awarded increased about \$3,000,000.

The United States Bureau of Mines in testing chemicals which might be used to give an odor to natural gas had some very amusing experiences. Many leaks were found in homes where no leaks had been suspected. The materials used had very unpleasant odors, one man blamed a butcher for having sent spoiled meat, a woman threw all of her husband's old shoes out of the closet, and a negro insisted on her husband taking a bath.

Recent fires in Government buildings have caused the Secretary of Commerce to organize a group known as the Federal Fire Council, which will function in an informative and advisory capacity on matters of fire prevention and protection arising in connection with Government activities. This includes such subjects as exit requirements, protection of records, elimination of fire hazards, and similar matters not already covered.

With a view to modernizing the municipal building code, I. S. Patterson, secretary of the Sacramento Builders' Exchange, has requested members of his organization to make suggestions for improvement of the code or to offer criticism on those sections which are displeasing to the individual. It is hoped that a sufficient number of expressions will be received to make the effort of revising the code a successful one.

The Department of Industrial Relations, State Industrial Accident Commission, announces a meeting will be held in Room 140, State Building, San Francisco, on April 8 at 10 A. M., and in Los Angeles on April 15, to consider and adopt additional boiler safety orders which will be of general application throughout the state, relative to reasonable safety standards and safety devices.

That signs are apparent of a steady though gradual improvement in world trade is the statement of James A. Farrell, president of the United States Steel Corporation and chairman of the National Foreign Trade Council, in issuing a call for the eighteenth national foreign trade convention.

The meetings will be held in New York May 27th, 28th and 29th.

"There are indications," Farrell said, "that the worldwide depression in business, with which we have been dealing for several months, is subsiding and that the upturn is beginning."

A motor highway from the Panama Canal to the Mexican border of the United States will link Central American nations and open Pan-America to United States motorists within five years is forecast by T. H. MacDonald, chief of the United States Bureau of Public Roads. Speaking at the concluding session of the Inter-American Highway Commission at Panama City, he said the road would cost \$50,000,000 but there was no question the project could be financed. A finance committee was appointed and headquarters for the commission were arranged in Washington, D. C.

Machinery has been set in motion, he said, by which international details of the highway can be adjusted through the co-operative effort of all countries represented.

Inasmuch as the size of a bridge very frequently determines its degree of importance, the American Institute of Steel Construction will this year select the most beautiful from three distinct classes from all those erected of steel during 1930. The bridges judged to be the most beautiful will be awarded with bronze plaques. The award in 1928 went to the Sixth Street Bridge in Pittsburgh. Last year the awards went to the Mount Hope Bridge in Rhode Island and to the Mount Pleasant Bridge in Westchester, New York, these being judged to be the most beautiful long-span bridge and the most beautiful short-span bridge erected in 1929.

Three first awards to the most beautiful bridge in each of three classes will be made this year; one to the bridge costing more than a million dollars, another where the cost lies between one-half and one million dollars, and the other to a bridge costing less than half a million dollars. Selections will be made from bridges opened to traffic during the year 1930.

They were elected to make the awards consists of Francis Lee Stuart, Consulting Engineer, President of the American Society of Civil Engineers; Robert D. Kohn, Architect, President of the American Institute of Architects; Frederick L. Ackermann, Architect of New York; D. Williams, H. Burr, Consulting Engineer; B. F. Betts, Editor of the American Architect.

The jury will meet on June 10 next to make their selections. Entrants may at any time prior to that date submit photographs and descriptive data to the American Institute of Steel Construction, Inc., 200 Madison Ave., New York.

The former school of architecture of the University of Southern California is to be the college of architecture, according to announcement of Dr. R. B. von Klein Smid, president of the university. With entrance direct from high school, the college of architecture now provides for five years continuous study, whereas formerly E. C. architectural students were required

to spend two years in the college of letters, arts and sciences before entering the 3-year school of architecture.

While the United States hesitates to take the stern course that the destructive commercial tactics of the Soviet Government of Russia demand, Canada has gone the whole route. On February 27 the Canadian Government, by order in council, shut out all imports of Russian coal, wood pulp, pulpwood, lumber and timber, furs and asbestos. This, says the Canadian Government, is its answer to a government which seeks "to impose its will on the world" through the exploitation of labor. "This is communism, its creed and its fruit," it continues, "which we as a country must refuse to support by interchange of trade."—National Lumber Bulletin.

The cost of street paving in New Orleans, which has not dropped in price of the lowering costs of material and labor, is being studied by New Orleans property holders. The investigation will also cover a study of the laws which regulate the letting of paving contracts; why only two contractors have been successful bidders for the last few years, and what part, if any, politics has played in awarding contracts.

A step toward the elimination of irresponsibility in construction was taken by the Kansas Contractors' Association, a chapter of the Associated General Contractors of America, composed of contractors doing work on highways and public works in Kansas, when it adopted a resolution at its annual meeting that any member of the association found guilty of allowing his bills which are just and due to remain unpaid, thereby forcing his creditors to take court action to recover the same, should be dismissed from membership in the organization.

Unfair competition is engendered by this practice, the resolution points out, and the public gets the impression that the contracting industry is neither honest nor responsible, so that a hardship is worked on the industry as a whole. The convention ordered that a copy of the resolution be sent to all governing bodies controlling the award of contracts for public works with the request that they pass an order disqualifying from bidding on future work any contractor found guilty of the above mentioned practice.

GRADE CROSSING MEASURE TABLED

The senate constitutional amendments committee last Thursday, after a hearing, tabled a constitutional amendment by Senator Roy Fellom, San Francisco, which proposed a bond issue of \$10,000,000 to eliminate grade crossings on county highways.

The bill was opposed by the farm bureau federation and the agricultural legislative committee.

The amendment was an enabling act, and if adopted by the legislature would go before the voters for their approval.

Fellom's plan was to use the bonds for the state to aid counties in carrying out matters to the extent of bearing half the cost assessed to the cities or counties.

The amendment did not provide for the elimination of grade crossings on state highways, as was provided in previous measures of this nature.

Details regarding a new 14-S concrete mixer which follows the pattern of larger units manufactured by the Ransome Concrete Machinery Co., Dunellen, N. J., are given in bulletin 127, issued by that company.

TRADE LITERATURE

Detail drawings showing methods of erecting ceilings and non-bearing partitions by the Nallock system, a method by which any material commonly used as a plaster base or any standard form of insulation can be nailed to steel studs, are given in an 18-page illustrated bulletin issued by the Wheeling Corrugated Co., Wheeling, W. Va.

Sam Finlay, Inc., 292 North Ave., N. W. Atlanta, Ga., has issued an illustrated bulletin describing the Fin-Roc surface mixer for the construction of bituminous pavement. Illustrations show the machine at work and typical highways upon which it has been used.

"Recent Developments in Chlorination," a paper by Francis D. West which was read before the last convention of the New England Water Works Association, has been reprinted by the Paradon Co., Arlington, N. J.

Principles and practice of bending wrought-iron pipe are clearly outlined on a 10-page illustrated bulletin 50 issued by the A. M. Byers Co., Clark Bldg., Pittsburgh, Pa.

The MacCreedy fluid level indicator, an electrical system which indicates the level of reservoirs or storage tanks at a remote point, is fully described in a 12-page illustrated bulletin issued by J. H. Bunnell & Co., Inc. 215 Fulton St., New York City.

Revolving car dumpers form the subject of a 12-page illustrated pamphlet issued by the Wellman Engineering Co., Cleveland, Ohio.

"Money Saving Time" is the title of an eight-page booklet issued by the Stormberg Electric Company of Chicago, manufacturers of electrically operated equipment for controlling the time element. Copies of the booklet will be forwarded on request to Ralph E. Peters, district sales manager, 7 Front Street, San Francisco.

Special features of the Mathews modernized fire hydrant are described and illustrated in the folder issued by R. D. Wood & Co., 400 Chestnut St., Philadelphia, Pa.

Improvements made in the Link-Belt Grizzly crawler loader are described in folder 1256 of the Link-Belt Co., 910 South Michigan Avenue, Chicago, Ill.

HOUSE PASSES
LICENSE FEE BILL

Assembly Bill 1687, by Mr. Wilber, increasing the contractors' license fee from \$5 to \$10 per year, passed the house and is now in the senate of the California Legislature with prospects that it will become a law very soon, as it carries an emergency clause making it effective as soon as it is signed by the governor.

The Registrar of Contractors is urgently in need of funds for the administration of the license law and the bill is but through the Legislature as quickly as possible.

Among the provisions of the bill, which amends the present law, are one eliminating the requirement that applications for licenses be verified and another prohibiting the use of more than 5 per cent of the license fees for educational work.

HERE—THERE
EVERYWHERE

Herman Palme of the Southern California Box Company, Los Angeles, was elected to serve on the executive committee of the Pacific Coast Division, National Association of Wood-Box Manufacturers for 1931.

Four thousand employees of the United States Aluminum Company, of New Kensington, Pa., operated the plant during an entire month without a lost-time accident. The record approximated 1,000,000 man-hours, and the employees faced the usual array of mechanical hazards.

The Lumbermen's Club of Arizona will hold its annual meeting at Phoenix, Ariz., May 15, 16 and 17.

By a vote of ten to seven the Nevada State Senate defeated the \$5 minimum wage bill, a labor measure introduced in the house by McAlliffe.

The annual convention of the Building Officials' Conference of America will be held at Toronto, Canada, April 21, 22, 23 and 24. Headquarters will be maintained at the King Edward Hotel.

The Los Angeles city council has voted to submit a \$6,000,000 bond issue proposal to voters at the primary election in May for the construction of sanitary sewers. The same issue was on the ballot last November and failed of passage by a small margin.

Suit has been brought in the Superior Court at Sacramento by the Minneapolis Steel and Machinery Company against the Holdener Construction Company of Sacramento and the Pacific Indemnity Company to recover \$1268.92. The amount is declared to be due for materials used on a bridge in Nevada.

Walker R. Young, construction engineer in charge of the Hoover Dam project, announces that Boulder City will be ready for occupancy in the late summer or early fall, probably about October 1. No leases for business locations in Boulder City will be granted before that time.

SUB-BIDDER TO GET
A.G.C. AID IN SUIT

J. H. Fitzmaurice, Oakland cement contractor, has filed suit against A. F. Hanson, general contractor on the Hayward Memorial Building in Alameda County, seeking damages of \$3,100. Fitzmaurice charges breach of contract.

Fitzmaurice, in his complaint, asserts that he entered into a written contract with Hanson on March 3 to do the cement work on the Hayward Memorial for \$12,400 and that Hanson agreed to accept his bid if granted the general contract by the county. Hanson was awarded the contract, but a complaint continues on Mar. 18 Hanson informed Fitzmaurice that "he had made other arrangements" for the cement work.

In commenting on the case Wm. E. Hague, manager of the Alameda County Chapter of the Associated General Contractors of America, says that Fitzmaurice will have the backing of the Associated General Contractors in prosecuting the suit as the contractors are actively interested in stopping the "shopping" of contracts and consider this in the nature of a test case.

TRADE NOTES

Dee Essley, secretary-manager of the California Retail Lumbermen's Association, is now making his headquarters in the San Francisco Bay district. His present mail address is P. O. Box 463, Burlingame.

Drake Steel Co. of San Francisco, capitalized for \$25,000, has been incorporated. Directors are John H. Trebler, Burney, L. K. Vermille, C. A. Borden and E. Ring.

Stockholders of McEverlast Inc., worldwide manufacturers and appliers of the Hunt process of concrete curing, industrial paints, protective pipe coverings and highway marking machines, have elected the following officers and directors: Geo. W. Anderson, president and general manager; Ed. R. Young, vice president; Fred M. McRae, second vice president; J. B. Shertz, re-elected secretary and treasurer. In addition to the officers named, all of whom are also directors, R. R. Pollock, R. A. Miller and A. M. Shenk were elected members of the board.

Operations of the Routt Lumber Company, including the Standard Planing Mill in Fresno, went into the hands of Sheriff George J. Overholt last Monday when attachment proceedings, instituted by A. Holm, were completed. The attachment action was started on claims amounting to \$24,000. Named in the complaints were the Routt Lumber Company and Virgil, Leonard and M. C. Routt. The properties will be continued in operation.

100-MILE CANAL
CONFERENCE IS SET

A conference on an all-American canal, between the Imperial Irrigation District, the Coachella District, and representatives of the U. S. Reclamation Bureau, will be held in Los Angeles within the next ten days.

The plan proposes a 100-mile canal, located wholly in the United States, to furnish Colorado River water to an area embracing both districts and totaling approximately 900,000 acres. Hydro-electric development at natural drops in the elevation is planned to provide revenue from power to pay for all construction and maintenance costs. The estimated cost of the canal is \$38,500,000.

PORTLAND PLANS
MUNY POWER PLANT

By a vote of three to two, the city council of Portland, Ore., the mayor and one commissioner dissenting, has adopted an ordinance providing for a contract with Carey & Harlan, consulting engineers, for an investigation of the possibilities of a municipal power system for the city.

The contract calls for investigation of several specific sites on the Columbia and Deschutes rivers and estimates of cost of development, of transmission lines, of substations and of present and prospective distribution systems in the city, and includes a study of the market and possible rates for power.

ALONG THE LINE

Albert H. Slemmer, general contractor of San Anselmo, has been appointed a director of the Marin Municipal Water District, filling the vacancy caused by the death of Joseph E. Clark.

Jack Renfrow, general contractor, will be a candidate for the office of city councilman of Watsonville at the coming municipal election.

William Curtis, city building inspector of Stockton, recently addressed the Stockton Realty Association on the benefits of the Uniform Building Code of the Pacific Coast Building Officials' Conference. The city council is considering adoption of the code in the immediate future.

T. M. Robinson, electrical dealer of Fresno, will be a candidate for the office of city commissioner of public works of Fresno at the coming election.

Charles M. Gunn, president of Gunn, Carle & Co., of San Francisco, has been elected vice-president of the American Concrete Reinforcing Steel Institute, according to Associated Press dispatches from Biloxi, Miss., where the Institute held its annual convention. C. W. Irwin of Youngstown, Ohio, was elected president.

Samuel H. Hooke, general contractor of Monterey, has filed his notice to seek election to the office of city councilman of Monterey at the coming municipal election.

E. J. Hawkins, 66, general contractor of Manteca, Calif., died in that city after a long illness. He was a native of England and came to this country in 1870, locating in California in 1904. He started operations in Manteca in 1920.

Kenneth C. Grant, for the past nine years president of Hamm, Grant and Bruner, Inc., of Los Angeles, has been reelected president of the company, and the firm name has been changed to Grant & Bruner, Ltd. H. A. Hamm severed his connection with the company on January 1. The firm will continue its practice in the design and erection of industrial and commercial buildings, with offices in Los Angeles.

James T. Sayles, assistant engineer in the San Joaquin County highway department, died at the Dameron Hospital, Stockton, last Tuesday. Death followed an operation for appendicitis. Mr. Sayles was connected with the San Joaquin highway department for the past four years and previous to that time was associated with George Jacobs, Stockton bridge contractor.

CONTRACTOR FILES BANKRUPT SCHEDULE

Assets totaling \$19,000 and liabilities amounting to \$34,500 are listed by F. N. Schlegler, contractor, of 1189 Bird Ave., San Jose, in a bankruptcy schedule on file in the federal court. Assets are comprised of building property at 732 South First Street, San Jose, \$7500; a home, \$4250; other property, \$3500. Accounts past due and stock in trade are both listed at \$1400. Debts ranging from small sums to \$14,000 are listed as owing to more than sixty creditors. Schlegler was adjudged a bankrupt last January 22. Bankruptcy Referee Milton Wright is settling the matter.

G. G. BRIDGE NOT OUT FOR FIGURES

The time for opening bids for construction in connection with the Golden Gate bridge project has not been definitely set, according to W. W. Felt, Jr., secretary of the Golden Gate Bridge and Highway District.

The recommendation of Joseph E. Strauss, chief engineer on the project, several weeks ago was that bids for construction were to be received on three phases of the work on April 1, April 15 and May 1. Due to some delay Strauss made a second recommendation that the directors issue bids for construction on April 15, May 1 and May 15, which bids would be opened on June 15. These dates, Felt announces, are not definite but are merely recommendations.

It is probable, however, that at the next meeting of the district directors the plans and specifications will be ready for adoption when the official call for bids for construction will be issued.

CREDIT BUREAU FOR YOUNGSTOWN BLDRS.

A credit plan similar to the one now in operation in Cincinnati, Ohio, has been adopted by the Allied Construction Industries of Youngstown, Ohio.

The Cincinnati plan is managed through a credit board composed of representatives of the various divisions of contractors, dealers, manufacturers and producers of the Allied Construction Industries. This board develops standard credit terms for each of the divisions of the organization and collects credit information which is distributed to all those co-operating in supplying it in the form of delinquent lists.

All those subscribing to the plan are bound to adhere to the terms established concerning the observation of cash discount dates and the granting of credit after a member's payments have become past due according to the regulations established by the credit board. The credit board acts as arbiter in the case of disputes arising over past due accounts.

COKE PLANT TO BE ERECTED IN SOUTH

A plant for the manufacture of metallurgical coke will be constructed in Southern California by the Fields Chemical Company, it is announced. The exact location for the plant has not been disclosed.

The Fields Chemical Company, after more than a year of experimentation, has developed a process of making coke from residuum oils, it is stated. By-products of the process include gasoline, ammonium sulphate and calcium acetate. The first ten units to be erected will cost about \$100,000 and will have an output of about 20 tons of coke per day.

Coke for many purposes is now brought to Southern California from Europe and the eastern part of the United States, the annual shipments aggregating in value about \$1,000,000. The enterprise is being financed by Southern California capitalists without the public sale of stock, according to the promoters.

Production of lumber, lath and shingles in Canada for the year 1930 is estimated at 3,787,162,000 board feet as compared with 4,233,937,000 board feet for 1929, according to a report received by the U. S. Department of Commerce.

HARDWARE CONCERN FACES DAMAGE SUIT

Charging that his alleged permanent and careless acts of the employees of the defendant, J. H. Haskins, Modesto surveyor, and former Stanislaus County surveyor filed a \$20,000 damage suit in the superior court against the Turner Hardware & Implement Company of Modesto.

Haskins, in his complaint charges that on August 24, 1929, while transacting some business in the Turner Hardware Company branch at Oakdale, he fell into an opening leading to the basement and received a shoulder bone fracture and injuries to the muscles and tendons of his left arm.

He states he has been under the care of a physician continuously since the day of the accident and has been deprived of the full use of his injured arm.

AUSTRALIA TO "SCRAP" CANBERRA

Australia has grown tired of its \$66,000,000 monument to sectional jealousy, the new capital Canberra, according to an Associated Press dispatch, and political leaders are now advocating that it be scrapped because it is isolated, inconvenient and a heavy drain on the revenues of the commonwealth.

Canberra is a new city built on a site removed from any of the centers of population to appease intersectional rivalry. It was planned to be the model capital of the world. In creating magnificent vistas the planners sprawled the capital out over 900 acres and as a place to live and to attend to business it is impracticable. When parliament is not in session it is deserted. Three of the five hotels built at a cost of more than \$3,000,000 have been closed for two years.

BOULDER AQUEDUCT TO L. A. ADVOCATED

In urging immediate construction of an aqueduct to the site of the Boulder Canyon Dam, the Metropolitan Water District (Los Angeles) announced that Southern California's water supply was being rapidly depleted by the use of 170,000,000 gallons more water daily than is being replaced in the reservoirs.

The overdraft of 170,000,000 gallons is being taken from underground water reserves that have accumulated over a period of thousands of years. When this supply is exhausted salt water will flow into the gravel beds cutting off this source.

Of the 9,000,000,000 gallons of water which is daily running into the sea from the Colorado, one ninth will be made available to Southern California cities by the district's aqueduct when the plan at Boulder is completed, the statement said.

Owing to the fact that it will take nine or ten years to construct the aqueduct the Metropolitan Water District is urging immediate commencement of work.

In the meantime Southern California cities were advised by the board of directors to "develop local water sources to their fullest extent."

The complete development of all remaining water in Owens Valley and the Mono Basin, Los Angeles is preparing to provide itself with an adequate supply until Colorado River water can be brought in, the statement concluded.

Building News Section

APARTMENTS

Contract Awarded.
APARTMENTS Cost, \$155,000
LOS ANGELES, Cal. Detroit Street
 near Sixth Street.
 Seven-story and basement reinforced
 concrete apartments (60x105 ft.).
 Owner—Withheld.
 Architect—Not Given.
 Contractor—E. S. Marsh, Delta Bldg.,
 Los Angeles.

Sub-Bids Wanted.
APARTMENTS Cost, \$110,000
LOS ANGELES, Cal. No. 915 S.
 Wilton Place.
 Four-story and basement concrete and
 brick apartments (61x113 ft.).
 Owner—Withheld.
 Architect—Not Given.
 Contractor—E. S. Marsh, Delta Bldg.,
 Los Angeles.

Contract Awarded.
APARTMENTS Cost, \$230,000
LOS ANGELES, Cal. Hayward Ave.
 near Fountain St.
 Two four-story Class C brick apart-
 ments (50x150 ft. each).
 Owner—Withheld.
 Plans by Fred Sward, Delta Bldg.,
 Los Angeles.
 Contractor—E. S. Marsh, Delta Bldg.,
 Los Angeles.

Owner Taking Bids.
APARTMENTS Cost, \$20,000
SAN FRANCISCO, SW Revere and
 Keith Streets.
 Three-story and basement frame and
 stucco apartments (2, 3-room and
 2 4-room apts. and one store).
 Owner—A. J. Taggioni, 160 South
 Park, San Francisco.
 Architect—Power & Ahnden, 605
 Market St., San Francisco.
 Wall beds, gas steam heating sys-
 tem, composition roofing.

Plans Being Prepared
APARTMENTS Cost, \$250,000
OAKLAND, Alameda Co., Cal. With-
 held.
 Six-story and basement brick apart-
 ments.
 Owner and Builder—Harry A. Schus-
 ter, 2424 Curtia St., Berkeley.
 Plans by Owner.

Plans Being Prepared
APARTMENTS Cost, \$20,000
SALINAS, Monterey Co., Cal.
 Two-story and basement frame and
 stucco apartment (6 4-room apts.).
 Owner—Name withheld.
 Plans by Koepf & Campbell, Mc-
 Dougal Bldg., Salinas, Cal.

Sub-Bids Being Taken.
APARTMENTS Cost, \$25,000
SAN FRANCISCO, NW Union and
 Baker Streets.
 Three-story and basement frame and
 stucco apartments (6 3-room and
 3 2-room apts.).
 Owner and Builder—Guido Moriconi,
 2341 Franklin St., San Francisco.
 Plans by Irvine & Ebbets, Call Bldg.,
 San Francisco.

Sub-Bids Being Taken.
APARTMENTS Cost, \$17,800
SAN FRANCISCO, E Divisadero St.
 N Jefferson.
 Three-story and basement frame and
 stucco apartments (6 apts.).
 Owner—G. and M. Teglia, 3023 Frank-
 lin Street.

Plans by B. K. Dobkowitz, 425 Mont-
 erey Blvd.
 Contractor—G. Harder, 1233 41st Ave.
 Sub-bids are wanted on roofing, re-
 frigeration, stail work, carpets and
 linoleum, stove (electric), sheet metal,
 hardwood flooring and glass.

Sub-Bids Being Taken.
APARTMENTS Cost, \$22,000
SAN FRANCISCO, NW Greenwich St.
 and Telegraph Hill Blvd.
 Three-story and basement frame and
 stucco and brick veneer apart-
 ment (six 3-room apts.)
 Owner and Builder—M. DeMartini, 437
 Greenwich Street.
 Architect—Withheld.

Preparing Working Drawings.
APARTMENTS Cost, \$200,000
BAYWOOD, San Mateo Co., Cal.
 Four-story and basement concrete
 apartment building.
 Owner and Builder—L. Dioguardi, 30
 W Poplar St., San Mateo.
 Architect—Wm. Toepke, 74 New Mont-
 gomery St., San Francisco.

Sub-Bids Being Taken.
APARTMENTS Cost, \$85,000
SAN FRANCISCO, N Pacific Ave. 75
 E Gough St.
 Six-story and basement Class C con-
 crete and steel frame apartments
 (24 3-room apts.).
 Owner and Builder—T. B. Strand, 668
 Funston Ave., San Francisco.
 Architect—Irvine & Ebbets, Call Bldg.,
 San Francisco.
 Sub-bids are wanted on grading,
 structural steel, concrete work, plum-
 bing, heating, refrigeration, tile
 and electric work.

Sub-Bids Being Taken.
APARTMENTS Cost, \$85,000
SAN FRANCISCO, N Pacific Avenue
 120 E Gough Street.
 Six-story and basement Class C con-
 crete and steel frame apartments
 (24 3-room apts.).
 Owner and Builder—T. B. Strand, 668
 Funston Avenue.
 Architect—Irvine & Ebbets, Call Bldg.
 Sub-bids are wanted on grading,
 structural steel, concrete work, plum-
 bing, heating, refrigeration, tile and
 electric work.

SKILSAW Portable Electric Hand
 Saws (4 models).

SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attach-
 ments.

SYNTRON Portable Electric Ham-
 mers (4 models, motor-
 less).

MALL Flexible Shaft Machines (50
 models).

Electric Drills, Grinders, Buffers,
 Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric

Tools.

1246 Mission St. Underhill
 San Francisco 7642
 SALES . SERVICE . RENTALS

Owner Taking Sub-Bids.
APARTMENTS Cost, \$20,000
SAN FRANCISCO, SW Revere and
 Keith Street.
 Three-story and basement frame and
 stucco apartments two 3-room and
 two 4-room apts. and one store).
 Owner—A. J. Faggioni, 160 So. Park.
 Architect—Power & Ahnden, 605 Mar-
 ket Street.
 Owner will act as contractor.
 Wall beds, gas steam heating sys-
 tem, composition roofing.

BONDS

LOS ANGELES, Cal.—An election
 will be held April 14 to vote on a
 \$216,000 bond issue to provide for the
 addition of 34 acres to the park in
 the Sunland-Hansen Heights District.

SAN MATEO, San Mateo Co., Cal.—
 Residents in the Beresford Park Dis-
 trict are on record as favoring a bond
 issue of \$30,000 to finance erection of
 new fire station in that territory.

LAKEPORT, Lake Co., Cal.—Resi-
 dents in Burns Valley School District,
 including Clearlake Highlands, Aus-
 tin's, Manakee and Clear Lake Park,
 at a recent mass meeting voted to
 call a bond election to secure \$40,000
 to finance erection of a new school.
 The election will be held about April
 10. Willis Lowe, 354 Hobart St., Oak-
 land.

CLARKSBURG, Yolo Co., Cal.—
 Election will be held April 15 in the
 Clarksburg Grammar School District
 to vote bonds of \$30,000 to finance
 erection of classrooms additions to
 the present school in addition to a
 heating plant.

CHURCHES

Bids Opened—Held Under Adviement.
CHURCH Cost, \$25,000
SAN FRANCISCO, Bush Street near
 Divisadero Street.

One-story frame church.
 Owner—West Side Christian Church.
 Architect—Bertz, Winter & Maury,
 210 Post St., San Francisco.
 Announcement will be made within
 a few days.

SAN FRANCISCO—Brass & Kuhn,
 1917 Bryant St., at \$3466 awarded con-
 tract to furnish oak choir stalls and
 screens and church furniture in St.
 Dominic Church, Bush and Steiner
 Ets., for the Roman Catholic Arch-
 bishop of San Francisco, 1100 Frank-
 lin St. Architect Arnold Constable,
 580 Market St.

Plans Being Completed.
CHURCH Cost, \$20,000
SACRAMENTO, Sacramento Co., Cal.
 EW Thirty-ninth St. and Fourth
 Ave. (72x125 feet).
 One-story reinforced concrete and
 stucco church (ceat 250 ft. roof)
 Owner—1st English Lutheran Church,
 Sacramento.
 Architect—Wm. E. Coffman, Forum
 Bldg., Sacramento.

Bids will be taken in about two
 weeks.

Preparing Working Drawings.
CHURCH Cost approx. \$100,000
SANTA BARBARA, Santa Barbara
 Co., Calif.

One-story reinforced concrete church. Owner—First Church of Christ Scientist. Architect—Henry H. Gutterson, 5 2 6 Powell St., San Francisco.

FACTORIES AND WAREHOUSES

Plans Being Figured—Bids Close Apr. 13, 4:30 P. M.
SUPERSTRUCTURE Cost, \$—
OAKLAND, Cal. Foot of Webster St. Superstructure for Inland Waterways Terminal (exclusive of structural steel).
 Owner—City of Oakland (Port Commission), 424 Oakland Bank Bldg., Oakland.

Plans by Eng. Dept. of Owner.
 Will be sheet-iron construction with 20-year guaranteed roof; 97x230-ft., with 20-ft. side hall clearances. Plans obtainable from office of secretary.
 As previously reported, structural steel awarded to California Steel Co., Holart Bldg., San Francisco.

Contract Awarded.
FACTORY Cost, \$250,000
SEATTLE, Wash. Eighth Ave. South Two and part three-story and basement reinforced concrete office and factory.
 Owner—Tea Garden Products Co. Engineer and Contractor—Austin C. Dexter Horton Bldg., Seattle.
 Plans are being completed. Construction will be started about May 1.

Sub-Bids Being Taken.
WAREHOUSE Cost, \$—
SACRAMENTO, Sacramento Co., Cal. Front and K Streets.
 Two-story class C warehouse (140x150 feet).
 Owner—Meburs & Drescher, Front & K Sts., Sacramento.
 Architect—Charles De an, California State Life Bldg., Sacramento.
 Contractor—Wm. Murcell, 200 V St., Sacramento.
 As previously reported, wrecking awarded to Capital Wrecking Co., 37th and R Sts., Sacramento.

Contract Awarded.
WAREHOUSE Cost, \$10,000
BERKELEY, Alameda Co., Cal. No. 1329 Sixth St.
 One-story concrete and frame warehouse.
 Owner—American Development Co., Financial Center Bldg., San Francisco.
 Architect—J. E. Kraft & Son, Phelan Bldg., San Francisco.
 Contractor—Daniel O'Neil, 273 Marina St., San Francisco.

To Take Bids In Two Weeks.
ICE PLANT, ETC. Cost, \$700,000
ANTELOPE, Sacramento Co., Cal.
 Lime and dry ice plant comprising opening quarry, cable lines, bunkering system, unloading system, manufacturing plant buildings, raw material, storage quarters, etc.
 Owner—California Lime and Products Co., R. L. Hollingsworth, general manager, Lincoln.
 Engineers—Smith - Emery Company, 351 Howard St., San Francisco.
 Lime plant will have a capacity of 200 tons per day. Liquid CO2 plant, 50-ton capacity dry ice per day.
 Purchase of 60 acres of property has been completed and construction of the quarry unit will start March 1st. Est. cost, \$125,000. Detail plans on other units will start within 1 week. Est. cost, \$750,000.

CULVER CITY, Los Angeles Co., Cal.—Carrier Engineering Corp., 748 E. Washington St., Los Angeles, has the contract for installing air conditioning and centrifugal refrigeration systems in a new film laboratory at

Culver City for Metro-Goldwyn-Mayer Corp. Cost \$90,000. Work has been started

Sub Bids Wanted.
POULTRY BLDG. Cost, \$75,000
SACRAMENTO, Sacramento Co., Cal. State Fair Grounds.
 One-story brick poultry building.
 Owner—State of California.
 Architect—George B. McDougall, State Architect, Public Works Building, Sacramento.

H. L. Petersen, General Contractor, 731 Treat Ave., San Francisco, desires sub bids in connection with the above project. Bids are to be opened at Sacramento on March 24th, 2 P. M.

Structural Steel Contract Awarded
LIVESTOCK BLDG.
 Cont. Price, \$97,500
SACRAMENTO, Sacramento Co., Cal. State Fair Grounds.

One-story brick livestock building.
 Owner—State of California.
 Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, State Office Bldg., Sacramento.
 Contractor—F. L. Hansen, 232 7th St., San Francisco.

Structural Steel—Judson Pacific Co., 609 Mission St., San Francisco.
 Sub-bids are being taken on other portions of the work.
 As previously reported, plumbing and heating awarded to Carpenter & Mendenhall, Sacramento, at \$3770; electric work to C. E. Turner Co., 2093 35th St., Sacramento, at \$2278.

Bids Opened.
POULTRY BLDG. Cost, \$75,000
SACRAMENTO, Sacramento Co., Cal. State Fair Grounds.
 One-story brick poultry building.
 Owner—State of California.
 Architect—George B. McDougall, State Architect, Public Works Building, Sacramento.

Following is a complete list of bids:
General Work
 Yoho & Dauger, 3419 4th Ave., Sacramento.....\$43,743
 Guth & Fox, Sacramento.....48,825
 W. C. Keating, Sacramento.....50,370
 C. J. Hopkins, Sacramento.....50,995
 H. L. Petersen, San Francisco.....51,767
 Mathews Const. Co., Sacto.....51,850
 Lindgren and Swinerton, Inc., Sacramento.....52,300
 Chas. F. Unger, Sacramento.....53,480
 P. F. Bender, Sacramento.....54,632
 E. T. Leiter & Son, Oakland.....55,917
 Mission Concrete Co., S. P.....57,988
 A. P. Fisher, Sacramento.....58,476
 F. L. Hansen, San Francisco.....58,777
 T. E. Hunt, Sacramento.....61,000
 O. S. Almbie, San Francisco.....61,850
Plumbing
 Carpenter & Mendenhall, Sacramento.....\$5,974
Scott Plumbing & Electric Co., Sacramento.....6,384
 Luppen & Hawley, Sacramento.....6,770
 F. A. McIntyre, Sacramento.....7,529
Electrical Work
 J. W. Thomas, Sacramento.....\$1,750
 C. E. Turner, Sacramento.....2,121
 N. P. Cannon.....2,139
 Luppen & Hawley, Sacramento.....2,218
 C. E. Vorlander.....2,260
 NePage-McKenny, Oakland.....2,419
 Cox Electric Co.....2,464
 Sam Fingerhut.....2,366
 Bids held under advisement.

Preparing Plans.
WAREHOUSE Cost, \$—
LOS ANGELES, Cal. East Fifteenth Street.
 Two-story brick and concrete warehouse (400x85 feet) (heavy mill construction).
 Owner—Fraun Corporation, 363 New High St., Los Angeles.
 Architect—Walker & Eisen, Western Pacific Bldg., Los Angeles.

Completing Plans.
BAKERY Cost, \$—
SAN FRANCISCO, Block bet. Howard
 Polson, 13th and 14th Sts.
 One-story brick bakery.
 Owner—Peerless Bakery, 73 Erie St.
 Architect—E. Neumarkel, 544 Marke Street.
 Bids will be taken in one week from a selected list of contractors.

Plans Completed.
ADDITION Cost, \$90,000
LOS ANGELES, Cal. No. 5830 S. Vermont Avenue.
 Two-story Class A reinforced concrete store and warehouse addition (10 x100 feet).
 Owner—Sears, Roebuck & Co.
 Architect—Nichimons, Carr & Wright 333 N. Michigan Ave., Chicago, Ill

GARAGES AND SERVICE STATIONS

Plans Being Completed.
SERVICE STATION Cost, \$10,000
VALLEJO, Solano Co., Cal. Sonoma and Ohio Sts.
 Station super service station.
 Owner—General Petroleum Co., 311 Sansome St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Bids will be taken in one week.

Plans Being Prepared.
SERVICE BLDG. Cost, \$50,000
VALLEJO, Solano Co., Cal. NW Sonoma and Main Sts. (130x150-ft.).
 Two-story automobile plant and service building (probably brick construction).
 Owner—Acme Motor Co. (Vallejo Ford dealers), Vallejo.
 Architect—Claude Barton, 522 Grand Ave., Oakland.
 It is indefinite at this time when bids will be called for.

Sub Bids Being Taken.
SERVICE STATION Cost, \$10,000
SAN FRANCISCO, Eighth Ave. and Fulton Street.
 One-story super service station.
 Owner—Shell Oil Company.
 Plans by Eng. Dept. of Owner.
 Contractor—Earrett & Hilp, 918 Harrison Street.

GOVERNMENT WORK AND SUPPLIES

WASHINGTON, D. C.—The second deficiency appropriation passed by the last Congress provides for the following Indian Bureau building construction: Elk, Nev., village site, including dwellings and water and sewer system, cost \$20,000; Sherman institute, Riverside, Calif., dairy sheds, sidewalks, curbing, etc. cost, \$250,000. Chas. H. Burke School, Ft. Wingate, N. M., heating system and water supply equipment, cost \$30,000. Hopi-Navajo Sanatorium, Winslow Ariz., sanitorium, etc., cost, \$150,000.

Contract Awarded.
ELEVATOR Cont. Price \$219.
SAN FRANCISCO, Letterman General Hospital (Kitchen No. 9)
 Install electric freight elevator.
 Owner—U. S. Government.
 Architect—Constructing Quartermaster, Fort Mason.
 Contractor—Spencer Elevator Co., 166 7th Street.

SUNNYVALE, Santa Clara Co., Cal.—Until April 8, 11 A. M., under Spec. No. 6476, bids will be received by Public Works Officer, Twelfth Naval District, 100 Harrison St., San Francisco, for wood and concrete test piles and core borings at the Naval Air Base, Sunnyvale. Specifications obtainable from above office on deposit of \$10. Returnable, checks for same to be made payable to Chief of the Bureau of Yards and Docks.

Bids Returned Un-Opened.

SAN FRANCISCO. Presidio. OFFICERS' QUARTERS Cost, \$90,000 Fifteen double sets of non-commissioned officers' quarters (each 2-story and basement, brick construction).

Owner—United States Government. Plans by Quartermaster Generals' Office, Washington, D. C.

Bids on this project were scheduled to be opened March 25, but action was deferred upon orders from Washington, D. C., ordering cancellation of the bid call pending passage of the Bacon-Davis Act, which commands payment of the prevailing wage scale in the territory where the project is undertaken. The bill is effective April 1 and it is expected that a new date for opening bids will be set at once.

The action was taken on recommendation of the Industrial Association of San Francisco, the Chamber of Commerce and the Building Trades Council.

MARE ISLAND, Cal.—Bids will be

asked shortly by the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6460, for floating derricks for the Navy Yard at Mare Island and the Naval Operating Base at San Diego. The work consists of two 25-ton floating steel derricks of the stiff-leg type with hull wheel having steel pontoons, steam engines, and oil burning boilers, one delivered to the Navy Yard, Mare Island and the other to the Naval Base (Destroyer Base), San Diego. Specification No. 6460 and accompanying drawings may be obtained by forwarding a check or postal money order for \$10, payable to the Chief of the Bureau of Yards and Docks, to the Bureau, to the Commandant, Navy Yard, Mare Island, Calif., or to the Commandant, Naval Operating Base, San Diego, Calif. Application and deposit check may be placed on the drawings and specification mailed as soon as they are available.

Attention is further invited to the fact that alternates providing separate bidding items will be called for the following:

(a) Revolving Cranes in lieu of derrick.

(b) Diesel Engines in lieu of oil burning boilers and steam engine drive.

(c) Diesel-electric drive in lieu of oil burning boiler and steam engine drive.

Upon the return of the drawings and specifications deposit check will be returned.

PORTERVILLE, Tulare Co., Cal.—

Until April 8, bids will be received by U. S. Treasury Department to furnish Government with site for proposed new postoffice. Site is to contain approximately 29,000 sq. ft. with a dimension of approximately 160 ft. on the more important of two street frontages.

SAN DIEGO, Cal.—M. H. Golden,

404 California Bank Bldg., San Diego, submitted the low bid at \$58,982 to the Bureau of Yards and Docks at Washington on March 18 for the extension of expeditionary storehouse at the Naval Operating Base (Marine Barracks), San Diego. Specifications No. 6407. Robt. E. McKee submitted the second low bid at \$59,675 and Herbert M. Baruch Corporation was third at \$62,893. The building will be a two-story structure, approximately 93x184 feet in area; reinforced concrete frame and floor and roof slabs, hollow tile walls and partitions, stucco exterior, clay tile and built-up roofing, concrete piling, brick work, slate toilet partitions, metal windows, rolling steel doors, metal covered doors, linoleum, sprinkler system, heating.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver

moted in the following schedules, further information being available from the Navy Purchasing Office, 100 Harrison St., San Francisco:

Bids Open April 7
San Francisco, 1 electric furnace; sch. 5376.

Mare Island, 60,000 ft. redwood lumber; sch. 5374.

Mare Island, 1 motor driven cylinder grinder; sch. 5386.

Mare Island, 1 motor driven pipe threading and cutting machine; sch. 5381.

San Francisco, 1 motor driven single end tenoner; sch. 5375.

Western yards, lumber, sch. 5384.

Mare Island, galv. sheet steel; sch. 5379.

San Francisco, 1 motor-driven sawing machine; sch. 5413.

Mare Island, 100 vacuum tubes; sch. 5407.

Bids Open April 14
Mare Island, 3 distributing transformers; sch. 538.

Mare Island, 3000 lbs. round bar corrosion resisting steel; sch. 5399.

San Francisco, sand blast equipment and 1 dust collecting system; sch. 5390.

San Francisco, 2 sand blast machines and equipment and 20,000 lbs. angular steel grit abrasive; sch. 5389.

San Diego, 1 trailer, without body, sch. 5420.

Construction Postponed Indefinitely.
POST OFFICE GARAGE \$300,000
SAN FRANCISCO, Folsom St., bet.

Main and Beale Sts.

Two-story concrete or brick post office garage.

Owner and Builder—McDonald and Kahn, Financial Center Bldg.,

Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.

MARYSVILLE, Yuba Co., Cal.—

Until April 7, bids will be received by Supervising Architect, Treasury Department, Washington, D. C., to furnish site for proposed post office.

Site must contain 29,000 sq. ft. with a dimension of approximately 160 feet on the more important of two streets.

HOQUIAM, Wash.—In addition to those previously reported, following are prospective bidders to erect post office at Hoquiam, bids for which will be opened by the Supervising Architect, Treasury Department, April 1:

Elliott Constr. Co., 212 S. Broadway, Aberdeen, Wash.

Hallbauer-La Bahn, Inc., 544 Rush St., Chicago.

J. W. Bailey Constr. Co., Empire Bldg., Seattle, Wash.

Wm. McDonald Constr. Co., 1311 Syndicate Trust Bldg., St. Louis.

Settgen Bros., General Contractors, 329 Worcester Bldg., Portland, Oregon.

Fred R. Comb Co., 1223 Chicago Ave., Minneapolis.

I. H. Hoffman, 1217 Public Service Bldg., Portland, Ore.

I. L. Young, General Contractor, 524 Henry Bldg., Portland, Ore.

Skinker-Garrett Co., Norwood Station, Cincinnati.

Mac Eros, General Contractors, 614 5th Ave., Seattle, Wash.

John Largura & Co., 3672 Adams St., Gary, Ind.

E. P. Brewster, General Contractor, Chehalis, Wash.

John Etwin, 76 North St., Hoquiam, Wash.

Schuler & McDonald, Inc., 1723 Webster St., Oakland, Calif.

ANACAPA ISLAND, Calif.—M. W. Lippman, 4244 South Arling, Los An-

ges, submitted lowest bid to Superintendent of Lighthouses, 425 Customhouse, San Francisco for the construction of 4 frame stucco dwellings, 5 small frame stucco shop buildings, 1 frame tank house and a reinforced concrete light tower, power house and oil house at Anacapa Island, Calif. Location is 11 miles off the mainland and 30 miles southeasterly from Santa Barbara.

Following is a complete list of bids: (1) the roofing; (2) asbestos shingle roofing.

M. W. Lippman, Los Angeles, (1) \$74,985; (2) \$74,900.

E. T. Lesure, Oakland, (1) \$74,680; (2) \$74,280.

Johnson & Hansen, Ventura (1) \$75,872; (2) \$75,522.

Robt. E. Millsap, Los Angeles, (1) \$75,590; (2) \$75,690.

Sullivan & Sullivan, Oakland, (1) \$77,900; (2) \$77,900.

John E. Johnson, Los Angeles, (1) \$79,890; (2) \$79,190.

Carpenter Eros., Beverly Hills, (1) \$82,313; (2) \$82,090.

Merritt-Chapman & Scott, San Pedro, (1) \$83,800; (2) \$83,200.

Robinson Roberts Co., Los Angeles (1) \$89,600; (2) \$89,000.

Bids held under advisement.

Sub Bids Wanted. Cost, \$90,000
SAN FRANCISCO, Presidio.

Eighteen double sets of non-commissioned officers quarters (each 2 story and basement, brick construction).

Owner—U. S. Government. Plans by Quartermaster Generals Office, Washington, D. C.

H. L. Petersen, General Contractor, 731 Treat Ave., San Francisco, desires sub bids in connection with the above project for which bids are being received by Constructing Quartermaster, Fort Mason, and will be opened March 25, 11 A. M.

Plans Being Figured—Bids Close April 8, 11 A. M.

OFFICE QUARTERS, Etc. Cost \$—
SAN FRANCISCO.

Construct temporary office building and wood partition freight transit compartment at Pier No. 5.

Owner—U. S. Government.

Plans by 12th Naval District, 100 Harrison St., San Francisco.

Plans obtainable from Commandant, Twelfth Naval District, 160 Harrison St., on deposit of \$10, check for same to be made payable to the Chief of the Bureau of Yards and Docks.

SAN DIEGO, Cal.—M. H. Golden,

404 California Bank Bldg., San Diego, submitted the low bid of \$58,982 to the Bureau of Yards and Docks at Washington on March 18 and has been awarded the contract for the extension of expeditionary storehouse at the Naval Operating Base (Marine Barracks), San Diego. Specifications

No. 6407. Robt. E. McKee submitted the second low bid of \$59,675 and Herbert M. Baruch Corporation was third at \$62,893. The building will be a two-story structure, approximately 93x184 feet in area; reinforced concrete frame construction.

MARCH FIELD, Riverside Co., Cal.—

Until 11 a. m., April 2 (date of opening postponed from March 24), bids will be received by Col. W. C. Gardenhire, constructing quartermaster, March Field, for the erection of two field officers' quarters and eight company officers' quarters at March Field. The time has been extended in order that certain changes may be made in the specifications. Bids for the 36 noncommissioned officers' quarters, Q. M. warehouse, Q. M. maintenance building, Q. M. garage, post exchange and the combined fire station and guardhouse will be opened, as originally advertised, on March 24.

MADERA, Madera Co., Cal.—San Joaquin Light and Power Corp., Power Bldg., Fresno, has appropriated \$48,100 to finance construction of a tie-line from the Biola sub-station to the Madera sub-station, a distance of 12 miles. An operator's cottage, costing \$4500, is included in the appropriation.

Plans Being Figured—Bids Close Apr. 30, 2:30 P. M.

HOSPITAL Cost, \$—
SALT LAKE CITY, Utah.
Veterans' Hospital, comprising Main Building No. 1, one garage and Attendants' Quarters No. 2, including roads, walks, grading and drainage.

Owner—U. S. Government.
Plans by Construction Division, U. S. Veterans' Bureau, Arlington Bldg., Washington, D. C.

Separate bids will be received for (a) general construction, (including plumbing, heating, electrical work and outside distribution systems); (b) electric elevators; (c) Zeolite Water Softener System; (d) refrigerating and ice making plant; (e) radial brick chimney.

SAN DIEGO, Cal. — M. H. Golden, 404 California Bank Bldg., San Diego, submitted low bid at \$96,852 to the Eleventh Naval District, San Diego, on March 29 for extension of barracks buildings at the Naval Operating Base (Air Station), San Diego; specification No. 6434. Recommendation was made that the contract be awarded to Golden on propositions Nos. 1 and 5. The work consists of four two-story building extensions to existing barracks Nos. 10 and 11, each extension to cover an area of approximately 52x33 feet; concrete foundations, brick exterior walls, steel beam floor and roof girders, reinforced concrete floor and roof slabs, hollow tile partitions, built-up roofing, stucco exteriors, double hung wood sash, slate shelving, metal toilet partitions, tile wainscoting, terrazzo and cement floors and base, metal lath, membrane waterproofing, steam heat from existing plant.

TUCSON, Ariz.—(By Special Wire)—Orndorf Construction Co., 437 S. Hill St., Los Angeles, at \$223,000 submitted low bid to the U. S. Veterans' Bureau at Washington, D. C., March 23 to erect patients' building with connecting arcade and one dining room extension to Building No. 3 at the Veterans' Hospital at Tucson, including roads, walks, grading and drainage. A complete list of the bids received on this project will be published shortly.

HALLS AND SOCIETY BUILDINGS

YUBA CITY, Sutter Co., Cal.—Yuba City Woman's Club plans early construction of a one-story frame and stucco clubhouse. Preliminary plans have been prepared. Estimated cost \$4,500.

Plans Being Revised
GYMNASIUM Cost, \$25,000
LYTTON, Sonoma Co., Cal.
One-story wood frame gymnasium with steel trusses.
Owner—Salvation Army.
Architect—Douglas Stone, 337 17th St., Oakland.

Construction Postponed Indefinitely.
BUILDING Cost, \$—
RICHMOND, Contra Costa Co., Calif.
11th Street off Macdonald Ave.
Two-story and basement class C brick building.
Owner—The Salvation Army.
Architect—Douglas Stone, 337 17th St., Oakland.

HOSPITALS

Sub Contract Awarded.
ADDITIONS Cont. Price \$269,837
SAN FRANCISCO, Potrero Ave. bet. 20th and 23rd Sts.

Class A additions on roof of San Francisco Hospital (4 wards; Brick walls, tile roofing).

Owner—City and County of San Francisco.
Architect—Alfred I. Coffey and Martin J. Rist, associated, Phelan Bldg.

Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.
Elevators—Otis Elevator Co., 1 Beach Street.

Travertine—P. Grassl, 1945 San Bruno Avenue.

Terra Coita—Gladding McBean, 650 Market Street.

Glass—W. P. Fuller Co., 301 Mission Street.

Accoutmental Work—Western Asbestos Magnesia Co., 25 So. Park St.

As previously reported:
Plumbing—Turner Co., 329 Tehama St., \$38,225.

Heating—J. A. Nelson, 10th and Howard Sts., \$17,694.

Structural Steel—McClintock-Marshall Co., 2050 Bryant St.; Prop. No. 2, \$19,070; J. Gerrick, Call Bldg., Prop. No. 3, \$7,560.

Preliminary Plans Approved—Working Drawings Being Prepared.

INSTITUTE BLDG. Cost, \$400,000
SAN FRANCISCO, Potrero Ave. and Twenty-first Street.

Six-story and basement Class A Cancer Institute building.

Owner—City and County of San Francisco.
Architect—Alfred I. Coffey and Martin J. Rist, associated, Phelan Bldg., San Francisco.

Steel frame, brick exterior, tile and hollow metal partitions.

SALT LAKE CITY, Utah.—See "Government Work and Supplies" this issue. Bids wanted April 30 by U. S. Veterans' Bureau to erect units of Veterans' Hospital at Salt Lake City.

TUCSON, Ariz.—See "Government Work and Supplies," this issue. Bids opened for Veterans' Hospital construction at Tucson.

Sub-Bids Wanted. March 24, 1931
DORMITORY Cost, \$—
SAN LUIS OBISPO, San Luis Obispo Co., Cal.

Two-story concrete boys' dormitory (floor area 7600 sq. ft.)
Owner—State of California.
Plans by State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.

The Minton Co., general contractor, Palo Alto and Mountain View, desire sub-bids on all portions of the work in connection with the above project. General contract bids are to be opened by owner on April 8, 2 P. M.

HOTELS

LAS VEGAS, Nev.—W. Gregan, at site, will superintend the construction of a three-story side addition and a one-story top addition to the John Miller building in Las Vegas. Store-rooms will be provided on the ground floor and about sixty hotel rooms on the upper floors. Reinforced concrete construction. A new heating plant will be installed. Cost, \$87,000.

RENO, Nevada—R. Carpenter, reported to be from San Francisco, and claiming to represent San Francisco capitalists, proposes to finance construction of a Class A reinforced con-

crete 100-room hotel on property with a 300 ft. frontage in Burns street. A San Francisco architect is reported to be preparing plans for the structure which will include a basement garage. The project, Carpenter reports, will be financed by the Ambassador Hotel Apartments, Ltd., of which Carpenter, C. E. Boswell and Helen Curvy of Reno, are directors.

Planned
THEATRE & HOTEL Cost, \$13,000,000
SAN FRANCISCO, SE Ninth and Market Sts. (275x375-ft.)
Seventeen-story Class A hotel and theatre (825 apts. and rooms and theatre portion to seat over 5000).
Owner—Ninth and Market Co., A. F. Rousseau in charge. % Marian Realty Co., 110 Sutter St.
Architect—Douglas Stone, 337 17th St., Oakland.

ICE AND COLD STORAGE PLANTS

Bids Opened.
EXTENSION Cost approx. \$90,000
SAN FRANCISCO, Channel between Pier No. 46 and 3rd St. bridge.

Extension to cold storage plant (refrigeration plant and install machinery and equipment).

Owner—State Board of Harbor Commissioners.
Engineer—Frank White, Ferry Bldg.

Following is a complete list of bids: Prop. No. 1. Making alterations to building and doing general contract work.

Prop. No. 2. Insulation contract.

Prop. No. 3. Machinery and brine circulation system.

Prop. No. 4. Elevator.

Prop. No. 5. Combination of Props. No. 1 and No. 4.

Proposition No. 1
C. Dudley De Velbiss, 369 Pine Street

William Spivock \$ 9,570
Barrett & Hilp 10,100
Reavey & Spivock 10,222

Vogt & Davidson 11,996
Frank J. Reilly 12,281
MacDonald & Kahn 12,453

Proposition No. 2
Cork Insulation Co., 354 Pine Street

Alta Roofing Co. \$29,719
W. W. Williamson Co. 34,566

Mundet Cork Corp. 34,450
Johns-Manville Co. 34,500

York Ice Machine Co. 35,210
Cast Refrigeration Co. 35,320
Western Asbestos & Magnesia Company 38,500

Proposition No. 3
Carbondale Machinery Co., 1931 S Broadway, Los Angeles

Edwards Ice Machinery Co. \$28,073
Baker Ice Machine Co. 30,500
York Ice Machine Co. 31,695

F. H. Rafael Co. 32,889
Gay Engineering Co. 33,000

Proposition No. 4
Spencer Elevator Co., 166 7th St., San Francisco

Otis Elevator Co. \$11,565
Proposition No. 5
Cork Insulation Co., 354 Pine Street

..... \$40,773
Vogt & Davidson 43,437
W. W. Williamson 46,754
M. B. McGowan 54,762

Bids held under advisement.

POWER PLANTS

LOS BANOS Merced Co., Cal.—Construction will be started shortly by the San Joaquin Light & Power Co., Power Bldg., Fresno, on a 12-mile power line in the Los Banos District from the Gustine Sub-Station s. w. to Quinto Creek, to serve the Sierra Magistrate Mining Company of San Francisco. Estimated cost \$26,550 including equipment.

Plans Being Prepared
SUB-STATION Cost \$15,000
 SAN JOSE, Santa Clara Co., Cal.
 Alum Rock Park District.
 One-story concrete sub-station.
 Owner—Pacific Gas & Electric Co.,
 243 Market St., San Francisco.
 Plans by Engineering Dept. of Own-
 ers.

**PUBLIC BUILDINGS, FIRE
 HOUSES AND JAILS**

Sketches Completed.
AUDITORIUM Cost, \$—
 Chasero, Fresno Co., Cal.
 Fresno Municipal Auditorium, seat-
 ing 6,000 persons.
 Owner—City of Fresno.
 Architect—H. Rafael Laake, Pacific
 Southwest Bldg., Fresno, and C.
 E. Butner, Cory Bldg., Fresno.
 An action will be held April 13 to
 vote bonds to finance construction.
 The structure will be 270-ft. square;
 stage proscenium will measure 56-ft.
 with a stage depth of 32-ft. North
 wing will house theatre seating 800
 persons. Another wing will house din-
 ing room, kitchen service and general
 convention facilities.

Bond Election Planned.
LIBRARY Cost, \$11,000
 NEW MONTEREY, Monterey Co., Cal.
 One-story frame and stucco library.
 Owner—City of New Monterey.
 Architect—Swartz & Ryland, Spazier
 Bldg., Monterey.

To Vote Bonds April 13.
FIRE HOUSE Cost, \$20,000
 OROVILLE, Butte Co., Cal.
 One-story brick fire house.
 Owner—City of Oroville.
 Architect—Chester Cole, First Nat'l
 Bank Bldg., Chico.

Contract Awarded.
LAIL Cost, \$110,000
 SALINAS, Monterey Co., Cal.
 Two-story reinforced concrete jail.
 Owner—County of Monterey.
 Architect—Reed and Corlett, Oakland
 Bank of Savings Bldg., Oakland.
 Following is a complete list of bids:

General Work
 Prop. No. 1 General work, includ-
 ing plumbing, heating and electric.
 Prop. No. 2 General work, exclud-
 ing plumbing, heating and electric.
 W. C. Keating, 4209 Mountain Blvd.,
 Oakland, (2) \$47,138.
 Carl N. Swensen, San Jose (1) \$65,-
 170; (2) \$49,670.
 F. C. Stolte, Oakland (1) \$66,800;
 (2) \$49,950.
 Macdonald & Kahn, San Francisco,
 (2) \$51,773.
 E. E. Nelson, San Francisco, (2)
 \$51,975.
 Sorenson & Haggmark, San Fran-
 cisco, (2) \$52,700.
 R. W. Littlefield, Oakland, (1) \$68,-
 69; (2) \$52,623.
 J. H. Graham, Salinas, (2) \$52,876.
 F. T. Wallstrom, Watsonville (2)
 \$54,430.
 H. H. Larsen Co., San Francisco, (2)
 \$54,743.
 Thermotte Const. Co., San Jose (2)
 \$56,674.
 N. H. Sjoberg & Son, San Francisco
 \$56,674.
 Neves & Hart, San Jose (2) \$56,983.
 George J. Maurer, Oakland, (1) \$71,-
 789; (2) \$56,359.
 K. E. Parker Co., San Francisco (1)
 \$74,650; (2) \$37,467.
 M. J. Murphy, Carmel (2) \$60,777.
 Larsen & Larsen, San Francisco (2)
 \$62,000.

Awarded to W. C. Keating, 4209
 Mountain Blvd., Oakland.
Plumbing, Heating and Ventilating
 Carl T. Doell, 467 21st Street,
 Oakland \$12,000
 Scott Co., San Francisco 12,595
 Anderson, Dougherty & Har-
 graves, Salinas 12,682

Phillips Heating & Plumbing
 Co., Salinas 13,502
 W. H. Picard, Oakland 14,400
 Awarded to Carl Doell, 467 21st St.,
 Oakland.
Electrical Work
 Rodeo Elec. Shop, Salinas \$2,944
 E. L. Reed 2,949
 Superior Elec. Co., S. F. 3,043
 Matson-Seabrooke Co., Oakland, 3,109
 W. H. McConnell, Monterey 3,210
 Gilbert Bros., San Jose 3,264
 Salinas Elec. Works, Salinas, 3,263
 C. E. Langlais, S. F. 3,719
 Awarded to Rodeo Elec. Shop, Sa-
 linas.

Jail Equipment
 (1) deduct; (2) deduct; (3) deduct;
 (4) deduct.
 Dinuba Steel Products Co., 163 2nd
 St., San Francisco, \$29,364; (1) \$757;
 (2) \$412; (3) \$911; (4) \$575.
 Southern Prison Co., Los Angeles,
 \$29,200; (1) \$1,120; (2) \$550; (3) \$750;
 (4) \$590.
 Pauly Jail Co., \$29,998; (1) \$595; (2)
 \$350; (3) \$646; (4) \$406.
 Freese & Son Steel Const. Co., \$32,-
 757; (1) \$625; (2) \$320; (3) \$800; (4)
 Bronbacher Iron Works, Los Ange-
 les, \$33,197; (1) \$100; (2) \$480; (3) \$900
 (4) \$900.
 Awarded to Dinuba Steel Prod. Co.,
 163 2nd St., San Francisco, for \$29,364.

CAKLAND, Cal.—City council has
 started proceedings to call election to
 vote bonds of \$3,850,000, a portion of
 which would finance the following
 building construction:
 Municipal Exposition Building, \$400,-
 000.
 New Emergency Hospital, \$200,000.
 New Main Library and Branch Li-
 braries, \$900,000.
 New Municipal Museum, \$250,000.
 The date for the election has not
 been determined.

Preliminary Plans Awaiting Approval
POLICE STATION Cost, \$60,000
 SAN FRANCISCO, Golden Gate Park.
 Police Station.
 Owner—City and County of San Fran-
 cisco.
 Architect—Weeks and Day, Financial
 Center Bldg.

Plans Being Figured—Bids Close April
 10, 2 P. M.
PAINTING Cost \$—
 FRESNO, Fresno Co., Cal.
 Painting Fresno County Courthouse.
 Owner—County of Fresno, D. M.
 Barnwell county clerk.
 Architect—Not Given.

Certified check or bidder's bond 10
 per cent required with bid. Specifica-
 tions obtainable from clerk. Bids pre-
 viously received on this work were
 rejected, these being:
 (a) Job complete; (b) labor only.
 B. L. Zunkeller, Fresno (a) \$3747
 (b) 2487
 O. R. Osterode, Fresno (a) 4190
 (b) 4460
 All 3090
 3280
 Schutz Paint Co., Fresno (a) 4993
 (b) 5495
 W. W. Spencer, Fresno (a) 5655
 Moberg & Ross, Fresno (a) 4600
 M. W. Hancock, Fresno (a) 5389
 (b) 5600
 H. C. Brown, Fresno (a) 6455

Preliminary Sketches Being Completed
CITY HALL Cost, \$40,000
 LINDSAY, Tulare Co., Cal.
 Spanish type City Hall.
 Owner—City of Lindsay.
 Architect—Swartz & Ryland, Brix
 Bldg., Fresno.
 Bonds are to be voted to finance
 construction.

Surveys Being Made.
LAIR REHABILITATION Cost, \$—
 STOCKTON, San Joaquin Co., Cal.
 Rehabilitation of county jail.
 Owner—County of San Joaquin, Eu-
 gene Graham, county clerk.

Architect—Joseph Losekann, 1218 W
 Harding St., Stockton.
 It is planned to remodel the heating
 and ventilating system and make gen-
 eral alterations and changes on the
 interior, including plumbing, etc.

RESIDENCES

Sub-Contracts Awarded.
ALTERATIONS Cost, \$12,000
 SAN FRANCISCO, Pacific Ave. bet.
 Presidio Ave. and Walnut St.
 Alterations to residence.
 Owner—Ralph Lyon.
 Architect—Warren Perry, 260 Califor-
 nia Street.
 Contractor—J. Dawson, 1507 Lincoln
 St., Berkeley.

Plumbing—Higgins & Krans, 741 Te-
 nama Street.
Electric Work—Galvin Bros., 1578 23th
 Avenue.
Cast Stone—California Cast Stone &
 Granite Works, South San Fran-
 cisco.

Steel—Mortenson Const. Co., 19th and
 Indiana Streets.
Roofing—Slate Roofing Co., 4128 Gil-
 bert St., Oakland.
Sheet Metal—John J. Delucchi, 1526
 Powell St.

Painting—D. T. Young, 2955 E 29th
 St., Oakland.
Plastering—Chester F. Murphy, 2222
 Bancroft Way, Berkeley.

Glass—Cobbedieck-Kibbe Glass Co., 301
 Washington St., Oakland.
 Sub-bids are wanted on mill work,
 flooring and stairs.

Preparing Preliminary Plans.
RESIDENCE Cost, \$30,000
 HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and
 stucco residence.
 Owner—Withheld.
 Architect—Willis Polk Co., 277 Pine
 St., San Francisco.

Low Bidder.
RESIDENCE Cost Approx. \$20,000
 ATHERTON, San Mateo Co., Cal.
 Two-story and basement frame and
 stucco residence.
 Owner—H. C. Kok, President Hotel,
 Palo Alto.

Architect—Bieder & Curtis, 35 W-San
 Carlos St., San Jose.
 Low Bidder—Henry B. Post, 1230
 Webster St., Palo Alto.

Contract Awarded.
RESIDENCE Cost, \$30,000
 ATHERTON, San Mateo Co., Cal.
 Two-story and basement frame and
 stucco residence (10 rooms and 3
 baths).
 Architect—George de Comenil, Ne-
 vada Bank Bldg., San Francisco.
 Contractor—Louis N. Pollard, 55
 Brewster St., Redwood City.

Architect Taking Sub-Bids
RESIDENCE Cost, \$12,000
 SANTA ROSA, Sonoma Co., Cal.
 Two-story and basement frame and
 stucco residence (10 rooms).
 Owner—Mr. Nelligan, Santa Rosa.
 Architect—Russell Guerne De Lappe,
 1710 Franklin St., Oakland.

Architect Russell Guerne De Lappe,
 1710 Franklin St., Oakland, is receiv-
 ing sub-bids on masonry, metal sash,
 glass and glazing, tile work, magnesite,
 sheet metal, lathing and plastering,
 painting, finished flooring and heating.
 Plans may be seen at the architect's
 offices, and sub-bids will be forwarded
 to the general contractors who are
 figuring the plans.

Sub-Bids Being Taken.
RESIDENCE Cost, \$6000
 MILBRAE HIGHLANDS, San Ma-
 teo Co., Calif.
 One-story and basement frame and
 stucco residence (5 rooms).
 Owner and Builder—O. Harjulin, 3rd
 St., San Francisco.
 Plans by D. E. Jaeckle, Call Bldg., San
 Francisco.

Sub-Bids Being Taken.
RESIDENCES \$3500 and \$4000 each
SAN FRANCISCO. Ingleside Terrace.
Group of one-story and basement
frame and stucco residences.
Owner and Builder—T. J. Sullivan,
1967 Ocean Ave., San Francisco.
Plans by E. K. Dobkowitz, 425 Mon-
terey Blvd., San Francisco.

Plans Being Figured.
RESIDENCE Cost, \$5000
SAN FRANCISCO. Forty-eight Ave.
near E Street.
One-story and basement frame and
stucco residence.
Owner—A. Ruppel.
Plans by E. K. Dobkowitz, 425 Mon-
terey Blvd., San Francisco.

Sub-Figures Being Taken.
RESIDENCE Cost, \$3000
OAKLAND, Alameda Co., Cal. 1830
Clemens Road.
One-story and basement frame and
stucco residence (5 rooms).
Owner and Builder—A. H. Menez, 4350
Arden Place, Oakland.
Architect—Not Given.

Sub-Figures Being Taken.
RESIDENCE Cost, \$4000
SAN FRANCISCO. W 23rd Ave. S
Ulloa St.
One-story and basement frame and
stucco residence.
Owner—J. F. McCabe, 617 Castro St.
Plans by Mr. Struthers.

Plans Being Figured.
RESIDENCE Cost Approx. \$20,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence (10 rooms).
Owner—Dr. E. P. Cook, St. Claire
Bldg., San Jose.
Architect—Ralph Wyckoff, San Jose
National Bank Bldg., San Jose.

Sub Bids Being Taken.
RESIDENCE Cost, \$20,000
WOODSTOCK, San Mateo Co., Cal.
Two-story and basement frame and
stucco residence (10 rooms and 3
baths).
Owner—Withheld.
Plans by Russell Coleman, 1404 Broad-
way, Burlingame.
Contractor—G. W. Williams Co., 1404
Broadway, Burlingame.
(4982) 1st report March 11, 1931.

To Take Bids In One Week.
BUNGALOW COURT Approx. \$45,000
SAN CARLOS, San Mateo Co., Calif.
One-story frame and stucco bungalow
court.
Owner—Withheld.
Architect—Ernest Norberg, 580 Mar-
ket St., San Francisco.

Bids To Be Taken In One Week.
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Cal. El
Camino Real.
Two-story and basement frame and
stucco residence (7 rooms, 3 baths)
Owner—Withheld.
Architect—E. L. Snyder, 2101 Shat-
tuck Ave., Berkeley.

Bids To Be Taken Within Few Days.
RESIDENCE Cost, \$—
SAN FRANCISCO. Marina District.
Two-story and basement frame and
stucco residence (8 rooms and 3
baths).
Owner—Withheld.
Architect—Norman R. Coulter, 46
Kearny Street.

Plans Being Completed.
RESIDENCE Cost, \$5000
STOCKTON, San Joaquin Co., Cal.
One-story and basement frame and
stucco residence (5 rooms).
Owner—W. H. Griffin, Stockton.
Architect—Victor Galbraith, Elks Bldg.
Stockton.
Shingle roof, gas heating system.
Bids will be taken in about 2 weeks.

Plans Being Completed.
RESIDENCE Cost, \$12,000
SANTA CRUZ, Santa Cruz Co., Cal.
One-story and basement frame and
stucco residence (7 rooms and 3
baths; English type; tile or slate
roof).
Owner—L. Bowman, Santa Cruz.
Architect—L. D. Esty & McPhetres,
Alta Bldg., Santa Cruz.
Bids will be taken April 1st.

Construction To Start Immediately.
RESIDENCE Cost, \$12,000
REDWOOD CITY, San Mateo Co.,
Cal. Edgewood Park, Lot 3 Bk 9.
Two-story and basement frame and
stucco residence (10 rooms and 3
baths).
Owner and Builder—H. E. Bourquin,
2710 Broadway, Redwood City
Plans By Owner.
Tile roof, gas heating system
(double unit).

Completing Plans.
RESIDENCE Cost, \$9000
OAKLAND, Alameda Co., Cal.
Two-story and basement frame and
stucco residence (9 rooms and 2
baths).
Owner—Withheld.
Architect—George Ellinger, 1723 Web-
ster St., Oakland.
Upon approval of plans by owner
bids will be taken from a selected list
of contractors.

Plans Completed.
RESIDENCE Cost, \$5000
SANTA CRUZ, Santa Cruz Co., Cal.
One-story and basement frame resi-
dence (8 rooms).
Owner—Santa Cruz County Hospital,
Santa Cruz.
Architect—L. D. Esty & McPhetres,
Alta Bldg., Santa Cruz.
Rustic exterior and plaster interior.
Bids will be taken in about thirty
days.

Plans Being Figured.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence.
Owner—Dr. P. A. Brancatto, 1266
Naglee Ave., San Jose.
Architect—Binder & Curtis, 35 W-San
Carlos St., San Jose.
Bids will be opened in about two
weeks.

Plans Being Figured.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement rustic resi-
dence (7 rooms).
Owner—C. Wesley Toy, 760 S-Ninth
St., San Jose.
Architect—Binder & Curtis, 36 W-San
Carlos St., San Jose.
About two weeks will be allowed for
figuring the plans.

Plans Being Prepared
RESIDENCE Cost, \$7000
SAN RAFAEL, Marin Co., Cal. Mc-
Rae Ave.
One-story and basement frame and
stucco residence (6 rooms).
Owner—Warren Crane, San Rafael,
Cal.
Architect—S. Helman, 605 Market St.,
San Francisco.
Bids will be taken in two weeks.

Contract Awarded.
PARISH HOUSE Cost, \$11,500
OAKLAND, Alameda Co., Cal. 82nd
Ave. near E-14th St.
Two-story and basement frame and
stucco parish house.
Owner—Roman Catholic Archbishop.
1100 Franklin St., San Francisco.
Architect—H. A. Minton, Bank of
America Bldg., Eddy and Powell
Sts., San Francisco.
Contractor—Ernest Icardi, 227-A
Collingwood St., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$47,500
SAN FRANCISCO. Broadway near
Baker Street.
Two and one-half-story and basement
frame and brick veneer residence
with slate roof.
Cwner—Dr. A. Lincoln Brown, Medi-
cal-Dental Bldg.
Architect—Bakewell and Welhe, 251
Kearny Street.

Contractor—Young & Horstmeyer, 461
Market Street.
Lumber—J. H. McCallum, 748 Bryan
Street.
Excavation—Sibley Grading & Team-
ing Co., 165 Landers St.
Concrete—Golden Gate Atlas Mate-
rials Co., 14th and Harrison Sts.
Reinforcing Steel—W. S. Wettenhall,
17th and Wisconsin Sts.
Plastering—Robt. Starrett, 227 13th St.
Structural Steel—Judson Pacific Co.,
509 Mission St.
Steel Sash—Soule Steel Co., Rialto
Building.
Plumbing—Jas. Pinkerton, 927 How-
ard Street.

Plans Being Prepared
RESIDENCE Cost \$7000
ROSS, Marin Co., Cal.
Two-story frame and stucco residence
(6 rooms).
Owner—Chas. Bradley.
Architect—S. Helman, 605 Market St.,
San Francisco.
Bids will be taken in two weeks.

Completing Plans
FRATERNITY HOUSE Cost, —
BERKELEY, Alameda Co., Cal. Vir-
ginia St. near LeConte Ave.
Two-story and basement frame and
stucco fraternity house.
Owner—Alpha Chi Sigma, 2428 Collage
Ave., Berkeley.
Architect—W. H. Ratcliff, Jr., Cham-
ber of Commerce Bldg., Berkeley.
Bids will be called for shortly.

Plans Being Prepared
RESIDENCE Cost approx. \$25,000
CARMEL, Monterey Co., Cal. Carmel
Highlands.
Two-story and basement frame and
stucco residence (12 rooms).
Owner—Withheld.
Architect—Guy Koeppe, McDougall
Bldg., Salinas and Carmel.
Bids will not be taken for two
months.

Bids Opened
RESIDENCE Cost, \$8000
LOS ANGELES, Santa Clara Co., Cal.
One-story and basement frame and
stucco residence (five rooms; tile
roof, gas furnace).
Owner—J. P. McCormack, San Fran-
cisco.

Architect—Chas. McKenle, Twhoy
Bldg., San Jose.
Following is a complete list of the
bids received:
M. W. Reese, 1210 Minnesota St.,
San Jose \$6300
L. Brouche, San Francisco 5095
Henry Helwig, San Jose 5218
Wm. Meyer, Cupertino 5233
Scott Doyle, Mt. View 5362
J. Gohanson, San Jose 5378
C. DaMant, Palo Alto 5644
J. E. Perkins, San Jose 5870
The Minton Co., Mt. View 5975
J. C. Monk, Los Gatos 6318
Bids held under advisement.

SCHOOLS

OAKLAND, Cal.—Until April 7, 4
P. M. bids will be received by John
W. Edgemond, secretary, Board of
Education, Administration Bldg., to
furnish and deliver Athletic supplies
for the Elementary and High Schools.
Certified check 10% required with
bid. Specifications obtainable from
Assistant Business Manager of the
Board of Education at the above ad-
dress.

OAKLAND, Cal.—Until April 7, 4 P. M., bids will be received by John W. Edgemond, secretary, Board of Education, Administration Bldg., to furnish and deliver Steel Lockers for Fremont High School.

Certified check 10% required with bid. Specifications obtainable from Assistant Business Manager of the Board of Education at the above address.

SANTA BARBARA, Cal.—Carl Swenson, Alameda Bldg., San Jose, submitted low bid of \$414,376 (steel joists) to Santa Barbara Board of Education on March 23 for the construction of a new Junior high school plant in Santa Barbara. Other low bidders were: Hatelye & Hatelye, Sacramento, on plumbing at \$22,968; Hickman Bros., 71 W. 8th St., San Pedro, on heating and ventilating at \$40,778; Guilbert Bros., San Jose, on electric wiring at \$31,690. The bids were taken under advisement. Wm. H. Weeks, architect, 525 Market St., San Francisco. There will be an administration and classroom building, shop building and gymnasium, reinforced concrete construction, terra cotta tile roofing, concrete or steel joists, wood and metal lath partitions, hydro electric elevators, steel windows, steam heat. The bids follow:

General
 Carl Swenson, (1) steel joists, \$414,376, (2) concrete joists, \$417,176.
 Orndorff Constr. Co., (1) \$416,630, (2) \$419,350.
 W. J. Ochs, (1) \$424,919, (2) \$432,774.
 H. M. Layson, (1) \$437,800, (2) \$438,900.
 Wurster Constr. Co., (1) \$441,000, (2) \$451,000.
 W. L. Snook, (1) \$456,209, (2) \$459,015.
 L. E. Dixon Co., (1) \$461,200, (2) no change.
 Christ Thoren, (1) \$508,000, (2) \$507,500.

Plumbing
 Hatelye & Hatelye, (1) \$22,968, (2) no change.
 Oro King, (1) \$23,412, (2) \$23,357.
 Coony & Winterbottom, (1) \$24,846, (2) no change.
 Geo. Schuster, (1) \$25,542, (2) no change.
 Hickman Bros., (1) \$25,954, (2) \$26,154.
 Ott Hardware Co., (1) \$26,594, (2) no change.
 Sweeney & Sons, (1) \$27,743, (2) no change.
 American Eng. & Constr. Co., (1) \$28,912, (2) no change.

Heating and Ventilating
 Hickman Bros. \$40,778
 Ott Hardware Co. 42,974
 Scott Ryan (1) 42,700; (2) 42,297
 Hatelye & Hatelye 44,780
 Coony & Winterbottom 44,946
 Pacific Heating & Ventilating Co. 45,130
 Sweeney & Sons 48,467
 American Eng. & Constr. Co. 48,993
 Geo. Schuster 49,933

Electrical
 Guilbert Bros. \$31,690
 California Electric Co. 32,424
 H. O. Bauerle 33,947
 Chas. A. Langlais 36,000
 Alta Electric Co. 38,900
 M. St. Ryan (1) \$42,700; (2) 42,000
 Nelson-Smith Co. (1) \$44,453; (2) \$45,562
 Flyan Electric Co. 44,468

Plans Being Figured.
GYMNASIUM Cost, \$20,000
PRINCETON, Colusa Co., Cal.
 One-story frame and stucco gymnasium.
 Owner—Princeton Joint Union High School District.
 Architect—Chester Cole, First National Bank Bldg., Chico.
 Steam heating system, tile roof, stage and equipment, hardwood flooring.

BAKERSFIELD, Kern Co., Cal.—Until April 9, 7:30 P. M., bids will be received by Florence C. Porter, secretary, Bakersfield School District, to furnish and deliver school supplies for the school year ending June 30, 1932. Specifications obtainable from above.

BERKELEY, Alameda Co., Cal.—Until April 6, 11 A. M., bids will be received by Regents of the University of California, for grading of the Geo. C. Edwards Fields on the Campus. Specifications obtainable from Cashier's Window, U. of C., Berkeley, California, on deposit of \$50, returnable.

PHOENIX, Ariz.—Brophy College, Phoenix, Ariz., contemplates improvements, consisting of additions to their present college building. Architect John R. Kihbey, 1523 Santa Monica Blvd., Beverly Hills, will probably prepare the plans.

Preparing Plans.
COLLEGE BLDGS. Cost, \$150,000
RIVERSIDE, Riverside Co., Cal.
 Citrus Experiment Station.
 Reinforced concrete college buildings. Owner—Regents of The University of California.
 Architect—G. Stanley Wilson, 3646 W. Ninth St., Riverside.

Preparing Working Drawings.
SCHOOL Cost, \$75,000
CARMEL, Monterey Co., Cal.
 One-story frame and stucco grammar school.
 Owner—Sunset School District.

Architect—Swartz & Ryland, Spauler Bldg., Monterey.
 Trustees of the district are: Frederick Bigland, Hester Hall Schoeninger and Clara N. Kellogg.

Sketches Completed.
LIBRARY Cost, \$117,000
CHICO, Butte Co., Cal. State Teachers' College.
 One and two-story library and classroom building.

Owner—State of California.
 Architect—Chester Cole, First Nat'l Bank Bldg., Chico.
 Brick construction, concrete floors, concrete pile foundations, terra cotta tile roof.

Plans will be forwarded to Sacramento for approval immediately.

Bids To Be Taken In One Week.
SCHOOL Cost, \$87,000
YUBA CITY, Sutter Co., Cal.
 Two-story brick elementary school.
 Owner—Yuba School Dist., C. P. Taylor, Roy E. Cassidy and Elizabeth Z. Littleton (clerk), trustees of district.
 Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.

Contracts Awarded.
ADDITION Cost, \$55,000
MADERA, Madera Co., Cal.
 Class C brick addition to high school.
 Owner—Madera Union High School District.
 Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.

Plans provide for modernizing the clock and electric lighting system in the old structure and the remodeling of some of the classrooms in the top floor into a study hall.

General Work
 Miller & Dean, Madera \$42,164
Electrical Work
 S. Olsen, Madera \$5100
Heating
 Scott Plumbing & Elec. Co., 1900 M. St., Sacramento \$2945
Plumbing
 Scott Plumbing & Electric Co., 1900 M St., Sacramento \$2107

Plans Being Figured—Bids Close April 7th.
SCHOOL Cost, \$7000
BURNEX, Shasta Co., Calif.
 Grammar school.
 Owner—Burney School District.
 Architect—Ralph D. Taylor, Alturas.
 Plans obtainable from architect and on file in office of clerk.

OAKLAND, Cal.—Until April 7, 4 P. M., bids will be received by John W. Edgemond, secretary, Board of Education, Administration Bldg., to furnish and deliver Opera Chairs for Fremont High School.
 Certified check 10% required with bid. Specifications obtainable from Assistant Business Manager of the Board of Education at the above address.

Plans Being Prepared.
ADDITION Cost, \$4000
HOLLISTER, San Benito Co., Cal.
 Two-room addition to Monterey St. School for manual training and music departments.
 Owner—Hollister School District.
 Plans by E. C. Griffin, Hollister.

Preparing Sketches
AUDITORIUM & GYMNASIUM
ROSS, Marin Co., Cal.
 Auditorium and gymnasium.
 Owner—Ross School District.
 Architect—A. A. Cantin, 544 Market St., San Francisco.

Bond election will be called in the near future to finance construction.

Preparing Preliminary Plans
ADDITION Cost, \$130,000
ALBANY, Alameda Co., Cal.
 Elementary School and Cornell Elementary School.
 Additions to two elementary schools.
 Owner—Albany School District.
 Architect—Paul L. Dragon, 1654 Main Ave., Albany.

Contemplated improvements involve new classrooms, heating plants, desks and equipment, playground developments, etc.

Contract to Be Awarded
DORMITORY Cost approx. \$68,900
MENLO PARK, San Mateo Co., Cal.
 One-story reinforced concrete dormitory for boys.
 Owner—Menlo School (L. S. Howard in charge), Menlo Park.
 Architect—Birge M. Clark, 310 University Ave., Palo Alto.
 Contractor—F. C. Stolte, 3449 Laguna, Oakland.

Plans Being Figured—Bids Close Mar. 30th.
AUDITORIUM Cost, \$25,000
SACRAMENTO, Sacramento Co., Cal.
 One-story and basement brick auditorium.
 Owner—St. Joseph's Academy.
 Architect—Harry Devine, California State Life Bldg., Sacramento.

Associate Architect Named
SCIENCE BLDG. Cost, \$202,000
SAN JOSE, Santa Clara Co., Cal.
 State Teachers' College Grounds.
 Fireproof Science Building.
 Owner—State of California.
 Architect—Ralph Wyckoff, Growers Bank Bldg., San Jose.
 Associate Architect—Chas. McKenzie, Twoby Bldg., San Jose.

Plans To Be Prepared.
SCHOOL Cost, \$—
COLLEGE CITY, Colusa Co., Cal.
 Fireproof high school.
 Owner—Pierce Joint Un. High School District.
 Architect—Starks & Flanders, Forum Bldg., Sacramento.
 The structure will be financed from a bond issue yet to be voted. The amount of the issue has not yet been determined.

Sub-Contracts Awarded
SCHOOL Cost approx. \$300,000
OAKLAND, Alameda Co., Cal. Piedmont Highlands (Edith Street near Morpeth).
 Group of reinforced concrete high school buildings (academic buildings, auditorium and gymnasium) accommodate 500.
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
 Architect—H. A. Minton, Bank of America Bldg., Eddy and Powell Sts., San Francisco.
 Contractor—James L. McLaughlin, 251 Kearny St., San Francisco.
Orn. & Mis. Iron—National Orn. Iron and Bronze Works, 424 9th St., San Francisco.
Rein. Steel—Concrete Engineering Co., 1230 Indiana St., San Francisco.
Readwork—Ariss Knapp Co., 861 41st St., Oakland.
Safes—Diebold Safe & Lock Co., Dollar Bldg., 311 California St., San Francisco.
Sheet Metal—Nellan & Stelling, 39 Otis St., San Francisco.
Floor Sleepers—Le Roy Olsen, 70 Hooper St., San Francisco.
Glass—East Bay Glass Co., 621 68th St., Oakland.
Marble—J. E. Back, 1533 San Erano Ave., San Francisco.
Masonry—Wm. Rainey & Co., 322 Clementina St., San Francisco.
Motion Picture Screens—Fred E. Turner Co., 557 Market St., San Francisco.
Asphalt—Ariss Knapp Co., 961 41st St., Oakland.
Blackboards—Fred E. Turner Co., 557 Market St., San Francisco.
Caulking—Concrete Engineering Co., 1230 Indiana St., San Francisco.
Dumbwaiters—Vincent Whitney, 365 Market St., San Francisco.
Fencing—Standard Fence Co., 432 Bryant St., San Francisco.
Window Hardware—Universal Window Co.
Wire Guards—Standard Fence Co., 432 Bryant St., San Francisco.
Wood Floors—Oak Floor Co., 325 Arlington St., San Francisco.
 Bids are being taken on steel sash, terrazzo work, tile work, roof tile, painting, metal partitions, mill work and elevators.
 As previously reported:
Heating and Ventilating—J. A. Pollier, 401 4th Ave., San Francisco.
Electric Work—Kenyon Electric Co., 528 13th St., Oakland.
Plumbing—J. Kruse Co., 6247 Colledge Ave., Oakland.
Plastering—Chris Berg, 550 Market St. San Francisco.
Excavation awarded to Ariss-Knapp Co., 961 41st St., Oakland.
 Buildings will be constructed for the Sisters of The Holy Name.

SAN ANSELMO, Marin Co., Cal.—Trustees of San Anselmo School District petitioned to erect a new auditorium on the school grounds. A cafeteria unit is also proposed. The petition has been taken under advisement.

Preparing Working Drawings.
SCHOOL Cost, \$3000
LAKEPORT, Lake Co., Cal.
 One-story frame and stucco school (2 classrooms).
 Owner—Sulphur Bank School District.
 Architect—Norman R. Coulter 46 Kearny St., San Francisco.

Preparing Working Drawings
SCIENCE BLDG. Cost, \$65,000
SANTA ROSA, Sonoma Co., Cal. Ursuline College.
 Two-story frame and stucco science building.
 Owner—Ursuline College, Santa Rosa.
 Architect—H. A. Minton, Bank of America Bldg., Eddy and Powell Sts., San Francisco.
 Bids will be called for shortly.

Preparing Plans.
ALTERATIONS Cost, \$90,000
ONTARIO, San Bernardino Co., Cal. Sultana and Sixth Sts.
 Alterations and additions to school buildings.
 Owner—Ontario Elementary School District.
 Architect—Harry L. Pierce, Western Mutual Life Bldg., Los Angeles.

Preparing Preliminary Plans.
SCHOOL & GYM Cost, \$150,000
ELDRIDGE, Sonoma Co., Cal. Sonoma State Home.
 One-story reinforced concrete extension to school and gymnasium and new ward building.
 Owner—State of California.
 Architect—Powers & Ahnden, 605 Market St. San Francisco.

SAN JOSE, Santa Clara Co., Cal.—Schutte Bros., 37 Fountain, San Jose, at \$20 per fixture will be awarded the contract for fixtures, and Lyons Metal Products Co., Hunter-Dulin Bldg., San Francisco, at \$4.40 per locker (300 lockers) will be awarded the locker contract by Board of Education.

YUBA CITY, Sutter Co., Cal.—Henry Robey, Live Oak, at \$2,912 awarded contract by Encinal School District to erect a one-classroom addition to the present grammar school. Complete list of bids follows:
 Henry Robey, Live Oak..... \$2,912
 Schott and Terry, Live Oak..... 3,415
 Fred Anglade, Yuba City..... 3,685

Commissioned To Prepare Plans.
SCHOOL Cost, \$70,000
WELLS, Nevada.
 One-story 4-classroom school.
 Owner—Wells School District.
 Architect—Geo. A. Ferris & Son, Cladianos Bldg., Reno, Nevada.
 Structure will contain 4 classroom, kindergarten, domestic science and manual training departments. A central heating plant will be erected, this being the first unit of a group of buildings.

Commissioned To Prepare Plans.
SCHOOL Cost, \$—
ST. HELENA, Napa Co., Cal.
 Grammar school.
 Owner—St. Helena Grammar School District.
 Architect—Wolfe & Higgins, Realty Bldg., San Jose.
 Plans for this structure were to have been prepared by Architect W. H. Weeks, 525 Market St., San Francisco. Mr. Weeks recently submitted his resignation as architect to the school

trustees. An election is to be held April 17 to vote bonds to finance the structure.

Bids Opened.
CAFETERIA Cost, \$25,000
YUBA CITY, Sutter Co., Cal. Yuba City High School.
 One-story reinforced concrete cafeteria.
 Architect—Chas. F. Dean, California State Life Bldg., Sacramento.
 Following is a complete list of the bids received:
 W. C. Keating, Forum Building, Sacramento..... \$19,750
 A. F. Remper, Sacramento..... 20,985
 George Hudnutt, Sacramento..... 21,320
 M. R. Peterson, Sacramento..... 22,495
 C. F. Unger, Sacramento..... 22,644
 W. J. Shaiz..... 22,875
 Fred. H. Betz, Sacramento..... 23,600
 Matthews Construction Co., Sacramento..... 23,695
 Lindgren & Swinerton, Inc., Sacramento..... 23,783
 C. J. Hopkinson, Sacramento..... 24,218
 Guth & Fox, Sacramento..... 24,226
 Yoho & Dauger, Sacramento..... 26,311
 P. H. Nielsen, Sacramento..... 27,528
 H. E. Vickroy, Stockton..... 27,831

Plans Being Prepared.
SCHOOL Cost, \$110,000
ONTARIO, San Bernardino Co., Cal. Chaffey Junior College Site.
 Second unit of college group.
 Owner—Chaffey Junior College, Ontario.
 Architect—Allison & Allison, California Reserve Bldg., Los Angeles.

SACRAMENTO, Cal.—Until April 6, 5 P. M., bids will be received by Chas. C. Hughes, Secretary, Board of Education, 21st and L Sts., for wrecking and removal of three-story and basement brick building at 1012 L Street in the block bounded by I, J, 10th and 11th Sts. Specifications obtainable from secretary.

SAN FRANCISCO—Architect H. A. Minton, 525 Market St., desires grading bids in connection with the proposed women's college to be constructed on Lone Mountain, Turk and Farker Sts., San Francisco, for the San Francisco College for Women. Approximately 170,000 yards are involved.

Completing Plans.
ADDITION Cost, \$90,000
PASADENA, Los Angeles Co., Cal. Rose Villa Street.
 Two-story reinforced concrete addition to school.
 Owner—Pasadena School District.
 Architect—Bennett & Haskell, First Trust Bldg., Pasadena.

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Bids Opened.
ADDITION Cost, \$55,000
MADERA, Madera Co., Cal.
 Class C brick addition to high school.
 Owner—Madera Union High School District.

Architect—Davis-Perce Co., Grant & Weber Sts., Stockton.
 Plans provide for modernizing the clock and electric lighting system in the old structure and the remodeling of some of the classrooms in the top floor into a study hall.

Following is a complete list of bids:
General Work (Including Mechanical)
 H. H. Henning, 1751 Berkeley

Ave., Stockton	\$53,620
George Roek, Stockton	54,998
C. H. Dodd, Stockton	55,750
John Cavanaugh, Stockton	55,875
P. Zinck, Stockton	59,800
I. E. Toothare, Stockton	59,963
H. E. Vickroy, Stockton	60,135
Nell & Wirtner, Modesto	60,517
E. Green, Modesto	60,600
F. H. Betz, Sacramento	61,140
E. H. Riley, Stockton	61,914
M. F. Varozzo, Modesto	62,350
Swanson & Chance, Turlock	65,563
General Work (Including Mechanical)	
Miller & Dean, Madera	\$42,164
G. Lehman, Fresno	46,646
L. Uebel, Ripon	46,692
J. Saderstedt	46,816
F. Heffner, Fresno	46,975
Reavey & Spivock, S. F.	48,690
Umer & Allen, Merced	48,525

Electrical Work

S. Olsen, Madera	\$5,100
Eddy Electric Co., Stockton	5,200
Collins Electric Co., Stockton	5,468
Electric Const. Co., Fresno	5,483
C. Lehman, Fresno	6,645

Heating

Scott Plumbing & Electric Co., 1900 M St., Sacramento	\$2,945
Geo. A. Schuster, Oakland	3,468
Miller Hays Co., Stockton	3,561
E. A. Newman, Fresno	3,605
A. Goedel, Fresno	3,698
Pacific Heating & Ventilating Co., Oakland	3,715
Barrett Hicks, Fresno	3,756
T. J. Kennedy, Martinez	3,776
Coates & Young	4,130
V. Cox, Fresno	4,278

Plumbing

Scott Plumbing & Electric Co., 1900 M St., Sacramento	\$2,197
A. Goedel, Fresno	2,700
George A. Schuster, Oakland	2,930
J. Stephensen, Fresno	2,847
Miller Hays Co., Stockton	2,933
E. A. Newman, Fresno	2,943
V. Cox, Fresno	3,253
Coates & Young, Fresno	3,298

Contract Awarded.
DORMITORY Cost Approx. \$68,000
MENLO PARK, San Mateo Co., Cal.
 One-story reinforced concrete dormitory for boys.

Owner—Menlo School (L. S. Howard in charge), Menlo Park.
 Architect—Birge M. Clark, 310 University Ave., Palo Alto.
 Contractor—F. C. Stolte, 3449 Laguna, Oakland.

Plans Being Figured—Bids Close April 13, 6 P. M.

ADDITION Cost, \$—
HOLLISTER, San Benito Co., Cal.
 Two classroom addition to Monterey and B Streets School.
 Owner—Hollister School District, Harriet Johnson, Clerk.
 Plans by Earl Griffin, Hollister.

Certified check 5% required with bid.
 Plans obtainable from Earl Griffin at Hollister.

BANKS, STORES & OFFICES

Plans Being Prepared.
MARKET Cost, \$20,000
BERKELEY, Alameda Co., Cal.
 One-story reinforced concrete drive-in market.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Addison Ave., Berkeley.

Completing Plans.
STORE Cost Approx. \$500,000
OAKLAND, Alameda Co., Cal. Broadway.

Three-story Class A department store Owner—Isadore Weinstein, 1041 Market St., San Francisco.

Architect—Wm. Knowles, 1214 Webster St., Oakland.

Bids will be taken in one week or ten days.

Completing Plans.
STORE Cost, \$4000
LIVERMORE, Alameda Co., Cal.
 One-story brick and terra cotta store Owner—Mrs. Abbie Carlisle
 Architect—George Ellinger, 1723 Webster St., Oakland.

Completing Plans
ALTERATIONS Cost, \$25,000
MERCED, Merced Co., Cal.,
 Alterations to store building.
 Owner—Bank of America, San Francisco, Cal.

Architect—H. A. Minton, Bank of America Bldg., San Francisco.
 Lessee—J. A. Newberry Co.
 Segregated bids will be taken within a few days.

Sub-Contracts Awarded
ALTERATIONS Cost, \$15,000
SAN FRANCISCO, NE Bush St. and Grant Ave.

Alterations to cafe and store.
 Owner—Dr. Kane and Mr. Yore.
 Architect—Ed. Eames, 353 Sacramento St.

Contractor—Barrett & Hilp, 918 Harrison St.

Plumbing—Ahlbach & Mayer, 85 Dorland.
Elec.—M. Schimitschek, 526 Hayes St.
Elevators—Spencer Elevator Co., 165 7th St.

Plastering—Robert M. Keever.
Glass—Arthur Goepff, 70 12th St.
Tile—Lamey Bros. Tile Co., 599 6th St.

Stair Work—E. D. Philbrick Co., 41 Sheridan St.

Sub-Contracts Awarded
ALTERATIONS Cost, \$30,000
SAN FRANCISCO, California Street bet. Montgomery and Kearny.

Alter market for store and garage.
 Owner—California Market Properties Co., 728 Merchants' Exchange Building.

Architect—G. W. Kelham, 316 Montgomery St.
 Contractor—Barrett & Hilp, 918 Harrison St.

Elevators—Otis Elevator Co., 1 Beach St.

Plastering—Herman Bosch, 449 Fulton St.

Preparing Working Drawings
BANK Cost, \$25,000
HOLLISTER, San Benito Co., Cal.
 One-story reinforced concrete bank.
 Owner—Bank of America.

Architect—H. A. Minton, 525 Market St., San Francisco.
 Bids will be taken in one week.

LOS ANGELES, Cal.—Harry D. Howell, 7529 Franklin Ave., has purchased property, 64290 feet in area, at the northwest corner of Vine St. and Homewood Ave. and adjoining property in the rear, 82½x145 feet in area. Mr. Howell has made no plans for improvements.

March 23, 1931
 Plans To Be Prepared.
OFFICE BLDG. Cost, \$2,000,000
SAN FRANCISCO, SE Market and Steuart Streets.

Twenty two-story Class A steel, tile or brick office buildings.

Owner—Anchor Chain Co., (Rep. by Harbor Investment Co.), 11 Steuart St., San Francisco.

Architect—H. H. Winner, 580 Market St., San Francisco.
 Proposed project is in a preliminary stage.

Contract Awarded.
STORE Cont. Price, \$6700
BURLINGAME, San Mateo Co., Cal. California Drive.

One-story reinforced concrete store.
 Owner—F. Peterson, Burlingame.

Architect—E. L. Norberg, 550 Market St., San Francisco.

Contractor—Moody J. Henry, 132 Bancroft St., Burlingame.

Preparing Plans.
NEWSPAPER BLDG. Cost, \$250,000
POMONA, Los Angeles Co., Cal. Third and Thomas Streets.

Six-story class A reinforced concrete newspaper building (115x120-ft.).

Owner—Pomona Progress-bulletin.
 Architect—Lincoln Rogers, 2412 West 7th St., Los Angeles.

Contract Awarded.
STORE Cost, \$10,000
SAN JOSE, Santa Clara Co., Calif.

Two-story frame and stucco store and residence.

Owner—Della Maggiore.
 Architect—Wolfe and Higgins, Realty Bldg., San Jose.

Contractor—A. Giacalone, 241 Race St. San Jose.

MERCED, Merced Co., Cal.—A. E. Richmond, Merced, is having plans prepared for a one-story brick store building to replace structure recently destroyed by fire. Will be 25 by 130 feet.

Sub-Bids Being Taken by Owner.
STORE Cost, \$5000
SAN JOSE, Santa Clara Co., Calif.

Post and Locust Sts.

One-story brick store.
 Owner—Henry Guilbert, 1245 Randol St., San Jose.

Architect—Charles McKenzie, Twohy Bldg., San Jose.

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Preparing Plans.
STORES Cost, \$—
LOS ANGELES, Cal. SE Sunset Blvd. and Laurel Ave.
Four-story and basement brick stores and offices.
Owner—Mrs. Elsie T. Ornstein.
Architect—Morgan Walls & Clements, Van Nuys Bldg., Los Angeles.

Contract Awarded.
OFFICES Cost, \$13,000
CHICO, Butte Co., Cal. 315-319 Wall Street.

One-story frame and stucco physicians' office building (52x66-ft.; Spanish type).

Owner—Dr. W. Enloe, Chico.
Architect—Not Given.
Contractor—M. C. Evans, 3164 Serra, Sacramento.

Plans provide for six office suites with reception room 20x30-ft. to be used in common. An X-ray room and rest rooms are included. Will be Spanish type with tile roof; California stucco exterior.

Segregated Bids Taken.
ALTERATIONS Cost, \$25,000
MERCED, Merced Co., Cal.
Owner—Bank of America, San Francisco, Cal.
Architect—H. A. Minton, Bank of America Bldg., San Francisco.
Lessee—J. A. Newberry Co.

Plans Being Figured—Bids Close April 21, 2 P. M.
OFFICE BLDG. Cost, \$—
SAN LUIS OBISPO, San Luis Obispo Co., Calif.

One-story concrete and brick and wood frame interior office building (tile roof; 6500 sq. ft. area).
Owner—State of California.

Plans by Division of Architecture, State Department of Public Works, Public Works Bldg., Sacramento.

- Bids are wanted for:
- (1) General work, except plumbing, heating and electrical.
 - (2) Electrical Work;
 - (3) Plumbing Work;
 - (4) Heating Work;
 - (5) Combined plumbing and heating Work.

Concrete Pile Contract Awarded.
STORES Cost, \$1,000,000
OAKLAND, Alameda Co., Cal. NW Twenty-first St. and Broadway.
Eight-story and basement class A reinforced concrete furniture display rooms and stores, 100x250 feet.
Owner—Pacific States Auxiliary Corp. Lessee—John Brunner Co., 15th and Clay Sts., Oakland.

Architect—Albert F. Roller, 1st National Bank Bldg., San Francisco.
Engineer—H. J. Brunner, Sharron Bldg., San Francisco.
Contractor—P. J. Walker Co., Sharon Bldg., San Francisco.

Concrete Piles—Raymond Concrete Pile Co., Hunter Bldg., S. F.
As previously reported:
Excavation—J. Catucci, 1212 15th Ave., Oakland.

Wrecking—Symon Bros Wrecking Co., 22nd and E-14th St., Oakland.
Sub-bids on other portions of the work will be taken shortly.

THEATRES

Contemplated.
THEATRE Cost, \$—
SAN FRANCISCO, Ninth and Market Streets.

Seventeen-story Class A hotel and theatre (825 apts. and rooms and theatre portion to seat over 5000).
Owner—Ninth and Market Company.
A. P. Rousseau in charge, 3/2 Marjann Realty Co., 110 Sutter St., San Francisco.
Architect—Not Given.

Preparing Plans.
THEATRE Cost, \$100,000
LONG BEACH, Los Angeles Co., Cal. Twenty-first St. and Pacific Ave.
Reinforced concrete theatre (to seat 960) (100x137 feet).
Owner—Walter R. Carlton.
Architect—Schilling & Schilling, Farmers & Merchants Bank Bldg., Long Beach.

Plans Being Figured.
THEATRE Cost, \$—
PASADENA, Los Angeles Co., Cal. Colorado St. E Madison St.
Reinforced concrete theatre (900 seating capacity).

Owner—Colorado-Madison Syndicate.
Architect—Walker & Eisen and C. A. Balch, Western Pacific Bldg., Los Angeles.
Supervising Architect—Bennett & Haskell, First Trust Bldg., Pasadena.

Sub-Contracts Awarded.
THEATRE Cost, \$100,000
SAN MATEO, San Mateo Co., Cal. Two-story Class C concrete and steel theatre and store (to seat 1000; contain four stores).
Owner—W. S. Leadley, 207 2nd St., San Mateo.
Architect—S. Chas. Lee, 2404 W. 7th St., Los Angeles.
Contractor—Leadley & Wiseman, 207 Second St., San Mateo.

Structural Steel—Sullivan Iron Works, 750 Brannan St., San Francisco.
Lumber and Mill Work—Wisnom Lumber Co., Fifth and Claremont Sts., San Mateo.
As previously reported, reinforcing steel awarded to Soule Steel Co., Ri-alto Bldg., San Francisco.
Other awards will be made shortly.

VAN NUYS, Cal.—Fox West Coast Home Good Churches, Washington St. and Vermont Ave., has purchased a site at the northwest corner of Van Nuys Blvd. and Hamlin St., Van Nuys, and proposes the erection of a Class A theatre building on the site to cost approximately \$200,000.

Sub-Contracts Awarded.
THEATRE Cost Approx. \$1,000,000
OAKLAND, Alameda Co., Cal. Broadway near Hobart Street.
Class A theatre building.
Owner—Publix Theatres, Inc.
Architect—Miller & Pfeiffer, 580 Market Street, San Francisco.
Contractor—Geo. Wagner, 151 South Park, San Francisco.

Mill Work—Pacific Mfg. Co., Monadnock Bldg., San Francisco.
Masonry—George Earton, 4333 Balboa St., San Francisco.
Terra Cotta—Gladding, McBean & Co., 660 Market St., San Francisco.

Clustering—Chris Berg, 580 Market St., San Francisco.
Cast Stone—August Daggett.
Ornamental Iron—Michel & Pfeiffer Iron Works, Harrison and 10th Sts., San Francisco.

Miscellaneous Iron—Folsom St. Iron Works, 17th and Missouri Streets, San Francisco.
Sheet Metal—Capitol Art Metal Works, 1129 Howard St., San Francisco.
Granite—McGilvray Raymond Corp., 3 Potrero Ave., San Francisco.

Marble—Vermont Marble Co., 244 Brannan St., San Francisco.
Tile—Art Tile & Mantel Co., 221 Oak St., San Francisco.

Waterproofing—O. H. Mann & Company, Hunter-Dulin Bldg., S. F.
Hollow Metal—Dahlstrom Metal Door Co., 54 1/2th St., San Francisco.
Other awards reported Dec. 27, 1930.

Completing Preliminary Plans.
THEATRE Cost, \$150,000
SAN JOSE, Santa Clara Co., Cal. NE First and San Salvador Sts.
Class A theatre building.

Owner—United Artists Corp., 1966 S Vermont St., Los Angeles.
Architect—Walker & Eisen, 1031 South Broadway, Los Angeles.
Working drawings will be started shortly.

Preparing Plans.
THEATRE Cost, \$—
LONG BEACH, Los Angeles Co., Cal. Reinforced concrete and brick theatre (to seat 960).
Owner—Withheld.
Architect—Schilling & Schilling, Farmer & Merchants Bank Bldg., Long Beach.

Planned.
THEATRE Cost, \$100,000
RICHMOND, Contra Costa Co., Cal. S Macdonald Ave., bet. Seventh and Eighth Sts.
Class A fireproof theatre.

Owner—United Artists of California, 1966 S Vermont St., Los Angeles, (Lewis Unger in charge).
Architect—Not Given.
More definite information will be given shortly.

Plans To Be Prepared.
ALTERATIONS Cost, \$—
SAN FRANCISCO, No. 1077 Market. Remodel present theatre.
Owner—United Artists Corp., 931 S Broadway, Los Angeles.
Architect—Not Selected.
More information will be given shortly.

Plans Being Figured.
THEATRE Cost, \$—
PASADENA, Los Angeles Co., Cal. Colorado St. E Madison St.
Two-story reinforced concrete theatre (to seat 900).

Owner—Colorado-Madison Syndicate.
Architect—Walker & Eisen and C. A. Balch, Western Pacific Bldg., Los Angeles.
Supervising Architect—Bennett & Haskell, First Trust Bldg., Pasadena.
Lessee—United Artists Theatres of California, Ltd.

Plans Being Prepared.
THEATRE Cost, \$50,000
LOS ANGELES, Cal. SW Whittier Blvd. and Woods Ave.
Reinforced concrete theatre.
Owner—United Artists Theatres of California.
Architect—Walker & Eisen and C. A. Balch, Western Pacific Bldg., Los Angeles.

WHARVES AND DOCKS

Plans Being Figured—Bids Close April 5, 8 P. M.
LAKEPORT, Lake Co., Cal. Wharf, steel and concrete wharf 10x 60 ft. (concrete piling).
Owner—Town of Lakeport, Fred L. Coles, town clerk.
Architect—Town Engineer, Lakeport.

Certified check or bid bond 50 per cent required with bid. Plans in office in city clerk.

MISCELLANEOUS CONSTRUCTION

YUBA CITY, Sutter Co., Cal.—Until April 7, 10 A. M., bids will be received by Albert B. Brown, county clerk, to construct sprinkling system for courthouse lawn in area bounded by 2nd, B and C Sts. and Courthouse Alley. Certified check or bidders bond 10% required with bid. Plans obtainable from County Engineer R. O. Lanzendorf in Yuba City.

SANTA ROSA, Sonoma Co., Cal.—Until April 7, 5 P. M., bids will be received by Ney L. Donovan, city clerk, construct a cascade and lily pool in Fremont Park. Certified check 10% payable to city manager required with plans obtainable from office of city manager.

VALLEJO, Solano Co., Cal.—Until April 4, 11 A. M., bids will be received at H. E. Edgcombe, city clerk, to place existing timber trestles supporting the 14-inch Green Valley water supply main. Certified check 10% cent payable to city required with plans on file in office of clerk. D. Kilkenny, city engineer.

April 7, 8 P. M., bids will be received by W. E. Varcoe, city clerk, to set 400 lin. ft. of chain link fence ft. high at Lincoln Park. Certified check 10% payable to city required with bid. Specifications on file in office of clerk.

ALAMEDA, Alameda Co., Cal.—Until SAN FRANCISCO—Following is a complete list of bids received March 27 by Leonard S. Leavy, city purchasing agent, to furnish and install museum cases in the M. H. deYoung Museum and the California Palace of the Arts:

California Art Metal and Wire Co., Young Museum, (a) \$146.50; (b) \$5.80; (c) \$121; California Palace of the Arts, \$146.50. Alternate bid, (no tag) (a) \$116.60; (b) \$15; (c) \$104. 16 Arts, \$110.60.
 Link & Schindler, (a) \$110; (b) \$90.; (c) \$104; Fine Arts, (a) \$119. Alt. \$79; (b) \$82; (c) \$78; Fine Arts, 1.

Full Vue Fixture Co., (a) \$125.75; \$89; Fine Arts, \$97.75.
 S. Levy, (a) \$127.80; (b) \$112; (c) \$116. Alt. (a) \$127.80; Alt. (a) \$65; (b) \$95.50; (c) \$94.50; Fine Arts \$93.65.

3. Brandenstein, (a) \$198; (b) \$148; \$158; Fine Arts, \$198. No bid on alternate propositions.

4. G. West, (a) \$183.50; (b) \$150.; (c) \$105.50; Fine Arts, (a) \$183.50. (a) \$150; (b) \$139; (c) \$136. Fine ts, (a) \$150.
 Pacific Manufacturing Co., (a) \$147.; (b) \$120.50; (c) \$120.55; Fine Arts \$147.50. Alt. bid, (a) \$105.50; \$102; (c) \$99; Fine Arts, (a) \$105.

5. Remington Rand Business Service, \$125.70; (b) \$102.45; (c) \$102; Fine ts, (a) \$125.70; Alt. (a) \$89.56; (b) \$42; (c) \$84.86; Fine Arts, (a) \$89.

6. Home Manufacturing Co., (a) \$116.; (b) \$95.; (c) \$91.35; Fine Arts, \$116.95; Alt. bid, (a) \$81; (b) \$81.; (c) \$76.30; Fine Arts, (a) \$81.

7. Royal Show Case Co., (a) \$143.78; (b) 2.03; (c) \$105.63; Fine Arts, (a) 3.78; Alt. bid, (a) \$100.78; (b) \$90.; (c) \$85.63; Fine Arts, (a) \$100.75. Diamond Show Case Co., \$154.50; (b) \$144; (c) \$151.50; Fine ts, \$154.50. No bids on alternate positions.

MISCELLANEOUS SUPPLIES AND MATERIALS

DAKLAND, Alameda Co., Cal.—Lily Mills Co., 525 Market St., San Francisco, at \$7000 submitted lowest bid to East Bay Municipal Utility district, 512 16th St., to furnish and deliver approximately 50,000 ft. 3/4-in. diameter copper tubing. Following is a complete list of bids received:
 Lily Mills Co., S. F., \$7000
 W. Marwedel, S. F., \$7262
 American Brass & Copper Co., Oakland, 7449
 East Bay Brass & Copper Co., Oakland, 7525

Ducommun Corp., San Francisco 7525
 Walworth California Co., S. F., 7525
 Mueller Co., San Francisco, 7525
 Tay-Hoolbrook Co., San Francisco 7525
 Crane Co., San Francisco, 7525
 Bids held under advisement.

SAN FRANCISCO.—Until April 6, 3 P. M., under Proposal No. 706, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver 6,000 padlocks, keys, for School Department. Spec. and further information obtainable from above.

SAN FRANCISCO.—United Motors Service, Inc., at \$97.50 per set awarded contract by City Purchasing Agent, under proposal No. 864, to furnish and deliver 35 radio receiving sets, "Delco" brand to the Department of Electricity for installation on Police automobiles.

SAN FRANCISCO.—Until April 6, 3 P. M., under Proposal No. 697, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver lined oil, shellac, turpentine, lead, litharge, mineral brown and putty, as may be ordered during the tri-annual term commencing May 1 and ending August 31, 1931. Specifications obtainable from above.

BUSINESS OPPORTUNITIES

SAN FRANCISCO.—Names and addresses of the individuals or firms concerned in the following opportunities will be furnished on request to the Business Opportunity Department of Daily Pacific Builder, 545-547 Mission Street. Phone GARfield 8744:

20953—Construction Materials. New York City. Exporters of construction materials wish to contact local commission houses in this city which specialize in the purchase of these materials destined for foreign countries. They are desirous of offering their services in supplying technical information and export procedure and requirements for shipment of such products.

20955—Crude Chalk. San Francisco. Firm in Dunkirk, France, wishes to make contacts with importers of crude chalk.

20956—Machinery Belt Fasteners. Bilbo, Spain. Party is interested in the importation and sale in Spain of machinery belt fasteners of American manufacture.

20940—Inventions. San Francisco. Party inquires for list of firms which buy and sell inventions and patented inventions.

Henry Anderson of the Jungersen Engineering Co., 3165 North 30th St., Milwaukee, Wis., manufacturers of a hydraulic dump body hoisting mechanism for use on trucks wish to contract reliable manufacturers who would be interested in buying hydraulic hoist parts to be assembled and sold under their own firm name.

L. H. Hall of the Portage Tool Co., Akron, Ohio, manufacturers of a line of tools is interested in contracting with firms or individuals to represent them on the Pacific Coast.

Robert K. Hunter of the Luckenbach Steamship Co., 210 Sansome St., San Francisco, represents the manufacturer of adjustable box, who is looking for parties who might be interested in handling same in San Francisco and surrounding territory.

Richard F. Marx, City Sales and Investment Corp., Kirby Bldg., Houston, Texas, is interested in securing a few articles of merit to sell and act as state distributors for that territory.

G. E. Wortley, president of the Imperial Electric Co., Akron, Ohio, man-

ufacturers of motors and generators seeks representation in this territory.

Geo. J. Harburger, 105 Hunson St., New York City, has facilities for representing some of the best territory desiring representation in the New York City territory.

SIX COMPANIES NAMES OFFICERS

Officers of the Six Companies, Inc., who will build the huge \$165,000,000 Boulder Dam, held their first official meeting in San Francisco last week. It was held at the St. Francis Hospital, where William H. Wattis, president of the Six Companies, is undergoing the Humber-Coffey cancer treatment.

After the meeting Wattis announced the official list of officers of the Six Companies and the committees which will work with them on this enormous job. The formation of two subsidiary companies was also announced.

The officer list, as announced by Wattis, was as follows: President, William H. Wattis; W. A. Bechtel, first vice president; E. C. Wattis, second vice president; Charles A. Shea, secretary; Felix Kahn, treasurer; K. K. Bechtel, assistant secretary-treasurer.

The construction committee is headed by H. J. Lawler as chairman, and includes Charles A. Shea, H. W. Morrison, W. A. Bechtel, Jr., and E. O. Wattis. The purchasing committee, S. D. Bechtel, chairman, Allan Macdonald, and L. S. Corey.

The first company to be formed is the Boulder Dam Transportation Company, which will handle all freight and passenger traffic to and from the dam.

The second subsidiary is the Boulder City Company, which will have charge of all housing, feeding, commissary, and concessions at the construction site.

OIL BURNER MEN TO PROMOTE SALES

A concentrated oil burner merchandising drive to tie in with Spring building and modernizing activities was launched last week in Washington, D. C., at a mass meeting of dealers, salesmen and accessory distributors. The drive, to last three months or longer, is backed up by a vigorous advertising campaign in the local newspapers and over the radio.

The campaign calls for a co-ordination of activities by oil burner dealers, fuel oil distributors, accessory manufacturers and the electric power company and represents the most ambitious effort of its kind ever staged in Washington. The advertising is conducted in the name of the Oil Heating Institute and the entire campaign has been devised with the advice and assistance of the Institute.

W. T. Johnson, formerly of The American Radiator Company, has taken charge of the administration of the plan under the guidance of a committee appointed for the purpose. The Kal Advertising Agency of Washington has prepared the copy. Dealer activity is stimulated by special inducements to salesmen, and "pep" meetings will be held from time to time to report the progress of the drive. Architects, builders and home owners will be solicited with educational material.

C. M. Sharpe, Executive Assistant of the Potomac Electric Power Company, will explain the drive. The campaign in detail at the Philadelphia convention of the American Oil Burner Association on April 16. Mr. Sharpe will speak on "Electric Utilities' Cooperation With Oil Burner Industry."

Engineering News Section

BRIDGES

MADERA COUNTY, Calif.—Until April 15, 2 P. M., bids will be received by State Highway Commission to construct a reinforced concrete girder bridge across Berenda Slough, consisting of eighteen 26-ft. 6-in. spans on concrete pile bents.

AKLAND, Cal.—As previously reported, bids will be received April 7, 10:30 A. M., by Geo. E. Gross, county clerk, to construct a reinforced concrete multiple trestle culvert on the Alvarado-Centerville rd.; estimated cost \$8800. Project involves:

- (1) 286 cu. yds. excavation for struc.;
- (2) 286 cu. yds. Portland cement concrete in structure;
- (3) 53,900 lbs. reinforcing steel complete in place;
- (4) removal of existing bridge, clear-sill, etc.

Plans obtainable from County Surveyor Geo. A. Posvy.

SALINAS, Monterey Co., Cal.—Until April 6, 10 a. m., bids will be received by C. F. Joy, county clerk, to construct bridge over Chalone Creek on the Soledad-King City road near Metz, in Supervisor District No. 3. Plans obtainable from County Surveyor Howard Cozzens on deposit of \$10, returnable.

MADERA COUNTY, Cal.—As previously reported, bids will be received April 15 by State Highway Commission to construct a reinforced concrete girder bridge over Berenda Slough, consisting of eighteen 26-ft. 6-in. spans on concrete pile bents. Project involves:

- (1) 1 only, existing bridge to be removed;
- (2) 1 only, detour bridge;
- (3) 1060 cu. yds. roadway embankment (detour);
- (4) 1800 sq. yds. detour surfacing;
- (5) 175 cu. yds. structure excavation;
- (6) 1750 lin. ft. reinf. concrete piles;
- (7) 789 cu. yds. class A Portland cement concrete;
- (8) 42 cu. yds. class A Portland cement concrete (pavement);
- (9) 150,000 lbs. reinf. steel;
- (10) 1640 lbs. phosphor bronze expansion plates;
- (11) 880 lin. ft. timber railing;
- (12) 1 lot miscellaneous items of work.

MODESTO, Stanislaus Co., Cal.—F. M. Bodenhamer, 354 Hobart St., Oakland, at \$54,000 and 250 cu. yds. excavation, submitted the low bid to the county supervisors to construct bridge over the Stanislaus River north of Oakdale. Will be reinforced concrete construction 390 ft. long, 24 ft. wide, with a 20-ft. roadway. Following is a complete list of the bids, all being taken under advisement:

- F. M. Bodenhamer, Oakland, \$54,000 25c.
- E. T. Lesure, Oakland, \$56,840, 35c.
- Geo. Ulrich Const. Co., Modesto \$53,990; 2c.
- J. C. Clark and C. F. Dougherty \$60,968; 25c.
- M. B. McGowan, San Francisco, \$60,989; 24c.
- Nevin & Hart, \$61,983; 22c.
- A. W. Kitchen, San Francisco, \$62,360; 23c.
- Merritt-Chapman & Scott, San Pedro, \$62,396; 22 1/2c.
- Mission Concrete Co., San Francisco \$65,132; 22c.
- Frederickson & Watson and Fred-

- erickson Bros., Oakland, \$66,343; 23c.
- White & Johns, \$67,980; 22c.
- Oberg Bros., \$70,400; 30c.
- John Kristich \$72,000; 33c.
- R. A. Oakley, \$75,215; 20c.
- J. F. Shepherd, Stockton, \$72,257; 27c.
- Rocca & Coletti, San Rafael, \$75,681; 38c.
- Nelson Bros., Stockton, \$79,680; 24c.
- Geo. Follock Co., Sacramento, \$73,900; 28c.
- W. J. O'Neil, San Francisco, \$79,994; 40c.

NAPA, Napa Co., Cal.—Until April 4, new bids will be received by the directors of Joint Highway District No. 7 at the Napa County Courthouse to construct a steel and concrete bridge on the Healdsburg-Calistoga Highway, ten miles east of Healdsburg. Previous bids rejected, the lowest being submitted by J. P. Lawler, 372 7th Ave., San Francisco, at \$15,243. Project involves:

- (1) 463 cu. yds. class A concrete;
- (2) 13 cu. yds. class B concrete;
- (3) 84,700 lbs. reinforcing steel;
- (4) 300 cu. yds. structure excav.;
- (5) 7000 cu. yds. roadway excav.;
- (6) remove old bridge.

Plans obtainable from engineer for the district, E. A. Peugh, Courthouse, Santa Rosa.

NAPA, Napa Co., Cal.—City council sets May 4 as date to vote bonds of \$52,000 to finance construction of proposed new bridge in Third Street in addition to \$5,000 for the proposed Brown Street bridge. The Third St. bridge will cost \$77,000 of which the county of Napa will contribute \$25,000. The Brown Street bridge will cost \$11,000 of which amount, \$6,000 is already in the city treasury.

SAN LUIS OBISPO, Cal.—An election will be held April 6 to vote on a \$12,000 bond issue to widen the present bridge on Essex St. near Pismo St. over San Luis Obispo Creek; and for the widening of the present culvert on North Broad St. over Old Garden Creek.

SAN LUIS OBISPO COUNTY, Cal.—Wm. Lane, San Luis Obispo, at \$1247 awarded contract by State Highway Commission to repair bridge across the Estrella River about 12 miles east of Paso Robles, consisting of one 154-ft. through steel truss span.

PLACER COUNTY, Calif.—W. H. Haus, 3129 E 7th St., Oakland, at \$32,521 awarded contract by State Highway Commission to construct upgrade crossing under the tracks of the Southern Pacific R. R. at New England Mills, consisting of two concrete abutments with wing walls and grading and surfacing approximately 1000 lin. ft. of roadway with bituminous treated crushed gravel or stone surfacing. Project involves:

- 16,150 cu. yds. excav. without class;
- 1850 cu. yds. str. platform excav.;
- 9 cu. yds. class A Portland cement concrete; 890 cu. yds. class F Port. cem. conc.; 9500 lbs. reinf. steel; 600 tons crushed gravel or stone (detour surfacing); 650 tons crusher run base;
- 290 tons bituminous treated crushed gravel or stone surfacing; 14 barrels light fuel oil; 6 lin. ft. 18-in. corrugated metal pipe; 154 lin. ft. 24-in. do.; 50 lin. ft. 30-in. do.; 136 lin. ft. 36-in. do.; 95 mile new property fence; 9 each, monuments, complete, in place;

1 lot miscellaneous items of work. The state will furnish corrugated metal pipe.

MONTEREY COUNTY, Calif.—Following bids received Mar. 25 by State Highway Commission to construct a reinforced concrete bridge across Trapatia Creek about 16 miles south of Monterey, consisting of one 150-ft. arch span and five 25-ft. girder spans on concrete abutments and bents 16 about .28 mile of roadway to be graded:

- Hanrahan Co., Standard Oil Bldg., San Francisco.....\$30,310
- Oberg Bros., Los Angeles.....310
- G. J. Ulrich Const. Co., Modesto 411
- Paul N. White, Santa Monica.....419
- Rocca & Coletti, San Rafael.....405
- A. W. Kitchen, San Francisco.....538
- M. B. McGowan, San Francisco 523

LOS ANGELES, Cal.—Until 10 AM. April 29, bids will be received by the Los Angeles board of public works for the construction of the Sixth St. viaduct, across the Los Angeles river, in accordance with plans prepared by Merrill Butler, chief bridge engineer, room 657 City Hall.

Bids will be taken on four alternative propositions, viz:

- (1) Entire job complete, lump sum;
- (2) Fabrication and delivery of the structural steel;
- (3) Erection of the structural steel;
- (4) All remaining work, refer to (2) and (3).

List of the quantities which will enter into the construction of this bridge and appurtenances follows:

- 8,000,000 lbs. reinf. steel;
- 47,300 cu. yds. class F concrete;
- 500 cu. yds. class G concrete;
- 370 15-ft. concrete piles (precast or cast in place);

- 1200 tons more or less structural steel
- 3000 cu. yds. more or less grad. g., including fill;
- 2900 feet curb;
- 23,000 sq. ft. concrete gutter and laid depression;
- 25,500 sq. ft. cement walk;
- Sanitary sewer, storm drain, 8-in. 3-in. asph. concrete pavement, as per plans;

Ornamental handrails, etc.; 72 concrete centrifugally cast struts with double bronze y-terms.

The bid form for the job complete will include the following items:

- (1) reinf. steel complete in place;
- (2) 47,300 cu. yds. class F concrete quantity subject to revision;
- (3) 500 cu. yds. class G concrete;
- (4) reinf. concrete piles, complete in place;
- (5) structural steel, complete in place;
- (6) grading, complete in place;
- (7) 2900 ft. curb;
- (8) 23,000 sq. ft. concrete gutter and local depressions;
- (9) 25,500 sq. ft. cement walk;
- (10) construct and remodel sanitary sewers;
- (11) construct and remodel storm drains;
- (12) pavements, complete in place;
- (13) ornamental handrails and pylons, complete;
- (14) lighting standards and light fixtures, complete.

This bridge will be of the girder span type, with structural steel truss span, a total length of 3800 ft. The bridge proper will be 46 ft. and the approaches 56 ft. wide. East of the river the bridge will be 60 to 8 ft. above the street level.

SAN BERNARDINO COUNTY, Cal.—Holbrook-Hobart Co., Riverside, awarded contract by State Highway Commission to construct bridge over Lytle Creek about 2 miles west of San Bernardino, consisting of five 35-ft. steel stringer spans with concrete deck on steel bents.

MODESTO, Stanislaus Co., Cal.—F. M. Bodenhamer, 354 Hobart St., Oakland, at \$54,000 and 25c cu. yd. excavation, awarded contract by county supervisors to construct bridge over the Stanislaus River north of Oakdale. Will be reinforced concrete construction 390 ft. long, 24 ft. wide, with a 20-ft. roadway.

MODESTO, Stanislaus Co., Cal.—County supervisors petitioned by delegations of various county chambers of commerce to take early action in financing a proposed bridge over the San Joaquin river near Patterson. The cost of the span is estimated at \$150,000. Geo. Macomber is county surveyor.

IRRIGATION PROJECTS

TURLOCK, Stanislaus Co., Cal.—Until April 13, 3 P. M., bids will be received by Anna Sorensen, secretary, Turlock Irrigation District, for improvements in Improvement District No. 74, involving under:

- Schedule No. 1—26,115 sq. ft. 2-inch concrete canal lining;
- Schedule No. 2—Construct 9 concrete structures, involving 10 cu. yds. concrete.

Certified check 5 per cent payable to district required with bid. Plans on file in office of secretary.

TURLOCK, Stanislaus Co., Calif.—Until April 13, 2 P. M., bids will be received by Anna Sorensen, secretary, Turlock Irrigation District, for improvements in Improvement District No. 23, involving:

- Schedule No. 1—17,670 sq. ft. 2-inch concrete canal lining;
- Schedule No. 2—4 concrete structures, involving 4.74 cu. yds. concrete.

Schedule No. 3—17 concrete structures, involving 17 cu. yds. concrete. Above work will be paid for in cash by property owners.

Certified check 5% payable to district required with bid. Specifications on file in office of clerk.

TURLOCK, Stanislaus Co., Calif.—Until April 13, 2 P. M., bids will be received by Anna Sorensen, secretary, Turlock Irrigation District, for improvements in Improvement District No. 43, involving:

- Schedule No. 1—20,244 sq. ft. 2-inch concrete canal lining;
- Schedule No. 2—3 concrete structures, involving 2.5 cu. yds. concrete;

Schedule No. 3—14 concrete structures, involving 15 cu. yds. concrete;

Schedule No. 4—1 wooden bridge. Schedules Nos. 1 to 3 inclusive will be paid for in cash by property owners.

Certified check 5% payable to district required with bid. Specifications on file in office of clerk.

STREET LIGHTING SYSTEMS

SAN FRANCISCO.—Until April 15, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to install ornamental street lighting system on Lower Road of Great Highway and on Laguna Honda Park, involving:

- (1) erect and assemble 75 ornamental concrete standards;
- (2) furnish and install 75 luminaries and lamps complete with compensators.

- (3) 9, same as item 2, without compensators;
- (4) furnish and install 6.6, to 20-amp. series transformers.
- (5) 75 concrete foundations for standards with conduit beds;
- (6) furnish and install 5,000 ft. ½-in. black iron pipe conduit;
- (7) furnish and install 29,100 ft. 5,000 volt single conductor, solid No. 8 R and L C Wire.
- (8) furnish and install 600-volt single conductor, stranded No. 8 RCDB wire.

Bond of \$4,000 required of the successful bidder. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

LIVERMORE, Alameda Co., Cal.—Until April 6, 8:15 P. M., bids will be received by Elmer G. Still, town clerk (940), to install electroliers together with underground system in portions of West First St., East First St. and South Livermore Ave., involving 45 Westinghouse Hollowspan Granite electroliers, Belmont Design 15, Style No. 338225 with type "U" fitter, together with transformers, light units, etc., 1911 Act. Certified check 10 per cent payable to city required with bid. Specifications on file in office of clerk. L. E. Wright, city engineer.

YREKA, Siskiyou Co., Cal.—City trustees contemplate installation of ornamental lighting standards at street intersections. About 45 standards will be installed.

SAN FRANCISCO.—Butte Electric & Manufacturing Co., 956 Folsom St., at \$4,340 submitted lowest bid to secretary, Board of Public Works, to install ornamental street lighting system in Berna Ave., involving:

- 39 ornamental iron standards, erect, paint and assemble;
- 39 luminaries and lamps, furnish and install;
- 30 concrete foundations with conduit beds; 11,800 5,000-volt single conductor R and L C wire; 2 series transformers, furnish and install.

Following is a complete list of the bids:

Butte Elec. & Mfg. Co.	\$4,340
H. C. Reid	4,439
Butte Elec. & Equip. Co.	4,485
A. C. Rice	4,747
R. Philtland	5,350

Bids held under advisement.

MACHINERY AND EQUIPMENT

OAKLAND, Calif.—Following is a partial list of prospective bidders to construct and install marine type cargo hoist and ramp for Inland Waterways Terminal at the foot of Webster Street, bids for which will be opened by the City Port Commission, 424 Oakland Bank Bldg., March 30, 4:30 P. M.:

- Otis Elevator Co., 1 Beach St., San Francisco.
- Joshua Hendy Iron Works, 200 Pine St., San Francisco.
- United Iron Works, 580 2nd Street, Oakland.

Independent Iron Works, 1824 Chase St., Oakland.

RIVERBANK, Stanislaus Co., Cal.—City trustees plan purchase of a road grader. Committee has been appointed to secure data on such equipment.

BOULDER CITY, Nev.—Reports indicate that materials and supplies purchased by the Six Companies, Inc., for use on the Hoover Dam Project will be purchased by competitive bidding. Miscellaneous hardware, pipe, oils, greases, and small tools are to be purchased in the open market. About \$4,500,000 will be expended for such purposes. About \$5,000,000 will

be expended for equipment including eight standard locomotives, 70 dump cars, 30 motor trucks, 15 2-yard electric shovels, six 4-yard concrete mixers, 10 air compressors each with a capacity of 2500 cu. ft. per minute, seven cable ways, a Diesel electric stand-by plant with 2500 H.P. capacity, a complete gravel plant with capacity of 700 tons sand and gravel per hour, derricks, hoists, etc.

ANTICOH, Contra Costa Co., Cal.—Until April 13, 8 P. M., bids will be received by J. E. McElheney, town clerk, to furnish and deliver one motor-driver truck according to specifications on file in the office of clerk. Certified check 10 per cent payable to town required with bid.

SACRAMENTO, Cal.—Following bids received March 23 under Requisition No. 8574 by State Bureau of Purchases, Sacramento, to furnish and deliver Williams, Colusa County, one 14-yard straight Diesel engine driven heavy duty power shovel with a working weight of approximately 90,000 lbs. Industrial Brownhoist Co., San Francisco, \$15,000.

Northwest Engineering Co., San Francisco, \$15,850 (gas shovel, not in accordance with specifications).

Edward R. Bacon, San Francisco, (\$16,115 (gas shovel, not in accordance with specifications).

Osgood Co., Oakland, \$16,235.

Harnischfeger Sales Co., San Francisco, \$16,744, Model 650; \$20,452 Model 700B.

Jenison Machinery Co., San Francisco, \$17,940.

A. L. Young Machinery Co., S. F., \$16,970.

R. A. Bodin Co., Sacramento, \$18,200.

Garfield & Co., San Francisco, \$18,465.

Harron, Riekard & McCone Co., San Francisco, \$22,135 (Discount of \$822.20 if paid within ten days).

Bucyrus - Erie Co., San Francisco, \$22,510.

FIRE EQUIPMENT

LINDSAY, Tulare Co., Cal.—Election will be called shortly by city trustees to vote bonds of \$6,000 to finance purchase of a motor pumper for the fire department.

LOS ANGELES, Cal.—Pioneer Rubber Mills, 822 E 3rd St., awarded contract by city purchasing agent, Thos. Oughton, to furnish cotton rubber lined fire hose under Specifications No. 2390; 30,000 ft. 2½-in., and 20,000 ft. 1½-in. hose.

RESERVOIRS AND DAMS

LAGUNA BEACH, Orange Co., Cai.—A. J. Stend, chief engineer of the Laguna Beach County Water District, is preparing plans for a storage reservoir upon which bids will be called probably within the next three weeks. The proposed structure will be of reinforced concrete and have a capacity of between 300,000 and 500,000 gallons.

PASADENA, Los Angeles Co., Cal.—Application for a permit to construct a low type dam in San Gabriel Canyon has been made to the state engineer at Sacramento by Samuel E. Morris, Pasadena water superintendent. Plans, prepared by C. E. Pearce, under the supervision of Louis Hill and Fred A. Noetzil, consulting engineers, show a structure 302 ft. high from foundations to spillway, 750 ft. in length at the crest and 217 ft. at the spillway crest. It will be 20 ft. thick at the top and 27.22 ft. in breadth at the bottom. The reservoir will serve to impound 40,000 acre feet of water. The estimated cost is \$5,770,000.

PIPE LINES, WELLS, ETC.

OAKLAND, Cal.—Steel Tank & Pipe Co., 1100 4th St., Berkeley, at \$16,800 awarded contract by East Bay Municipal Utility District, 512 Sixteenth St., Oakland, to furnish and deliver 6000 feet of electric welded sheet steel pipe.

EXETER, Tolare Co., Cal.—Until April 8, 5 P. M. (to be opened 8:15 P. M.), bids will be received by T. E. Ambrey, city clerk, to drill one well 600 feet in depth and cased with double No. 12 gauge, 14-inch casing. Certified check 5 per cent payable to mayor required with bid. Specifications on file in office of clerk.

SAN FRANCISCO—Bids will be asked about April 10, to be opened about May 6, by S. J. Hester, secretary, Board of Public Works, to construct a pipe line across the San Joaquin Valley to serve as an emergency supply line from Hetch Hetchy via the Altamont Pass without waiting for the completion of the Coast Range tunnels. The line would be about 46 1/2 miles in length and will exclusive of the Red Mountain Bar cost between \$7,000,000 and \$7,500,000, siphon, to cost an additional \$250,000.

VALLEJO, Solano Co., Cal.—Until April 4, 11 A. M., bids will be received by A. E. Edgumbe, city clerk, to replace existing timber trestles supporting the 14-inch Green Valley water supply main. Certified check 10 per cent payable to city required with bid. Plans on file in office of clerk, T. D. Kilkenny, city engineer.

OAKLAND, Cal.—Until April 3, 5:30 P. M., bids will be received by John Kimball, secretary, East Bay Municipal Utility District, 512 16th St., to furnish and deliver gate valves for distributing system. Specifications obtainable from above office.

SEWERS AND SEWAGE DISPOSAL PLANTS

FRESNO, Fresno Co., Cal.—City council declares intention (109-D) to construct 6-inch vitrified clay pipe sewer in Coast avenue including one cement concrete manhole; 4-in. on 6-in. wyes. 1911 Act. Hearing April 9, H. S. Foster, city clerk C. C. Valkenburg, city engineer

EL CERRITO, Contra Costa Co., Cal.—City Engineer Harry D. Chapman making surveys for sewers in the Tapscott Park area to serve as a residential district.

SAN FRANCISCO—C. B. Eaton, 715 Ocean Ave., at \$40,050 awarded contract by Board of Public Works to construct reinforced concrete sewer at crossing of Sunset Blvd. and Lincoln Way, involving:
844 lin. ft. 7-ft. 3-in. by 3-ft. reinf. concrete sewer, \$34.

386 lin. ft. 5-ft. 6-in. circular do. \$21.
189 lin. ft. 18-in. V.C.P. sewer, \$6.
4 brick or concrete manholes, \$60.
1 taper connection from 5-ft. 6-in. sewer to 7-ft. 3-in. by 9-ft. sewer, \$450.
1 taper connection from 7-ft. 3-in. sewer to 6-ft. 6-in. sewer, \$300.
1 taper connection from 5-ft. 6-in. sewer to 6-ft. 6-in. sewer, \$250.

OAKLAND, Calif.—City council has started proceedings to call an election to vote on bonds of \$3,550,000, of which \$1,300,000 is to finance construction of sewers. Walter N. Frickstad is city engineer.

REDWOOD CITY, San Mateo Co., Cal.—City Engineer C. L. Dimmitt is making surveys for extension of sewer system in Valcota Road.

PHOENIX, Ariz.—C. C. Kennedy, Call Bldg., San Francisco, has been named as sole consulting engineer in connection with the city's new \$17,400 sewer and disposal system. Under the original arrangements, the firm of Holmquist and Madden was to work in conjunction with Kennedy. The project is now in the hands of certain of the actual cost of the project, exclusive of land, rights of way and engineering fees. The proposed project will include a sewage treatment W. J. Jameson, city engineer, with C. C. Kennedy, consulting engineer. The latter will receive a fee of 4 per plant, and disposal system, and new sewer lines within the city.

SEATTLE, Wash.—Bids will be asked shortly by Board of Public Works to construct Lake Washington intercepting sewer system; estimated cost \$190,000. Will involve approximately 20,000 ft. triple strength vitrified clay pipe varying from 8 in. to 24 in., in addition to the construction of three pumping stations.

SAN LUIS OBISPO, Cal.—An election will be held April 6, to vote on an \$18,000 bond issue for the construction of digester equipment, distributing mains, and other additions to the sewage disposal plant and city farm.

LA MESA, San Diego Co., Cal.—Until 7 P. M., April 14, bids will be received by the La Mesa city council for one sewage chlorinator and platform scale, having a capacity at the rate of 100 thousand gallons of flow of sewer per 24 hours, bidder to furnish engineer for supervising installation, city to furnish necessary common labor and material for erecting chlorinating house and chlorinator. Bids are invited on both the standard and dry feed types of standard chlorinators. O. E. Lapun, city clerk.

STOCKTON, San Joaquin Co., Cal.—City Const. Co. at \$3,750 and \$3,700 submitted low bid to county supervisors to construct sewer system at corner of fair grounds. Complete list of bids, all taken under advisement, follows:
City Const. Co.....\$3,750; \$3,700
F. E. Goodell.....5,146; 4,996
John Hachman.....5,400; 5,100
Martin Murphy.....5,785; 5,285
Geo. C. DeGolyer.....6,300; 5,500

PALO ALTO, Santa Clara Co., Cal. Board of Public Works is considering two plans for sewage disposal, one submitted by the Burns-McDonnell-Smith Engineering Co. of Los Angeles, calling for a complete treatment plant at a cost of \$300,000, which plan City Engineer J. F. Byxbee has modified, reducing the cost to \$93,720 for the city of Palo Alto and \$45,650 for the State of University. The city engineers plan provides for the construction of a pumping plant approximately 600 feet east of the junction of Arroyo and East Willow roads, on the erection of a skimming chamber on the marsh land to the east, and the laying of a 22-inch wood stave pipe outfall sewer which would terminate about 2,500 feet north of Sand Point at the mouth of Mayfield slough and approximately 1,000 off shore in the water of the bay.

WATER WORKS

FRESNO, Fresno Co., Cal.—Thompson Constr. Co., 2150 G St., Fresno, at \$770 awarded contract by county supervisors to furnish and install

pumps, pressure tanks and miscellaneous items for Fresno County Water District No. 1. Perry F. Brown, engineer, 512 Griffith-McKenzie Bldg. Fresno.

REDWOOD CITY, San Mateo Co. Cal.—Campbell & Budlong, San Jose at \$2100 awarded contract by city council to furnish and install two deep well turbine pumps in open bore wells.

REDWOOD CITY, San Mateo Co. Cal.—Nash, Englehart Co., Sharo Edge, San Francisco, at \$13,000 awarded contract by city council to furnish and install two centrifugal boost pumps and motors.

LOS ANGELES, Cal.—Contracts for furnishing welded steel water pipe under Specification No. 2355 were awarded by city purchasing agent, as follows:

Western Pipe & Steel Co.—Proposals (1), items 1 and 2; Proposal (2), item 5, 6, 7; and amount of contract, \$240,772.

Consolidated Steel Corp., Ltd.—Proposal (2), items 2 and 3 amount of contract, \$183,515.

Unit bids submitted in issue of

LAGUNA BEACH, Orange Co., Cal.—Until 7 p. m., April 7, bids will be received by the Laguna Beach County Water District for furnishing a centrifugal pump of 600 G. P. M. operating against a head of 340 ft. Certified check or bond, 10 per cent. A. J. Stead is the chief engineer.

LOS ANGELES, Cal.—Until 11 a. m. April 1, bids will be received by the Los Angeles city purchasing agent Thomas Oughton, for furnishing galvanized wrought steel pipe under Specifications No. 2327, P. O. B. Hewitt Spur, for department of water and power. The items are:

- Item (1) one carload galvanized wrought steel pipe to be delivered to Los Angeles, approximately June 1 1935, comprising the following quantities and kinds of pipe:
 - (1) 9000 ft. 3/4-in. std. pipe with plain ends;
 - (2) 4000 ft. 1-in. std. pipe with plain ends;
 - (3) 1500 ft. 1 1/2-in. std. pipe complete with threads and couplings;
 - (4) 1000 ft. 1 1/2-in. std. pipe complete with threads and couplings;
 - (5) 2500 ft. 2-in. std. pipe complete with threads and couplings;
 - (6) 500 ft. 3-in. std. pipe complete with threads and couplings;
 - (7) 500 ft. 4-in. std. pipe complete with threads and couplings;
 - (8) 10,000 ft. 3/4-in. extra heavy pipe with plain ends;
 - (9) 5000 ft. 1-in. extra heavy pipe with plain ends;
 - (10) 500 ft. 1 1/2-in. extra heavy pipe with plain ends.

Item (2) same as item (1) July 1 delivery.

Item (2) same as item (1) August 1 delivery.

Item (4) same as item (1) September 1 delivery.

Item (5) same as item (1) October 1 delivery.

Item (6) same as item (1) November 1 delivery.

Item (7) same as item (1) December 1 delivery.

KLAMATH FALLS, Oregon—Until 2 P. M., April 8, bids will be received by the U. S. Bureau of Reclamation, 1441 Welton St., Denver, Colo., for furnishing one electric motor-driven vertical pumping unit, having a discharge capacity of 15 cu. ft. per second and a total effective head of 45 ft., for Dry Lake Pumping Plant No. 2, Langell Valley Division, Klamath Project, Oregon.

BOULDER CITY, Nev.—Until 2 P. M., April 1, bids will be received by the U. S. Bureau of Reclamation, 1441 Leitch St., Denver, Colo., for furnishing high pressure pipe line materials for Boulder City water supply Boulder Canyon Project, in accordance with Specifications No. 514-D.

Bids will be taken on the following schedules and quantities of pipe:

SCHEDULE NO. 1

Seamless Line Pipe, American Petroleum Institute Grade "B," Plain Ends for Dresser Type Couplings:
Item 1: 443 ft. 12 $\frac{1}{2}$ -in. O. D. of thickness and length shown in the specifications;

2842 ft. 12 $\frac{1}{2}$ -in. O. D., of thickness and length shown in specifications.

Seamless Line Pipe, American Petroleum Institute Grade "B," Plain Ends for Dresser Type Couplings, hop Bent to the Radii Shown in specifications:
Item 2: 223 ft. 10 $\frac{1}{2}$ -in. O. D.
1020 ft. 12 $\frac{1}{2}$ -in. O. D.

SCHEDULE NO. 2

Seamless Line Pipe, American Petroleum Institute Grade "B," Plain Ends for Dresser Type Couplings:
Item 3: 24,466 ft. 12 $\frac{1}{2}$ -in. O. D., of thickness and length shown in the specifications.

Seamless Line Pipe, American Petroleum Institute Grade "B," Plain Ends for Dresser Type Couplings, hop Bent to the Radii Specified.
Item 4: 449 ft. 12 $\frac{1}{2}$ -in. O. D., of thickness, radius of bends, etc., shown in specifications.

Substitutions will be allowed under schedule 2 as follows:

12 $\frac{1}{2}$ -in. O. D. lap-welded line pipe all thickness 0.300-in.

OR

12 $\frac{1}{2}$ -in. O. D. Republic resistance, eld pipe, wall thickness 0.279-in.

SCHEDULE NO. 3

Seamless Line Pipe, American Petroleum Institute Grade "B," Plain Ends for Dresser Type Couplings:
Item No. 4: 8720 ft. 12 $\frac{1}{2}$ -in. O. D. of thickness, length, as shown in the specifications.

Seamless Line Pipe, American Petroleum Institute Grade "B," Plain Ends, Shop Bent to the Radii Specified Below:
Item No. 6: 480 ft. 12 $\frac{1}{2}$ -in. O. D., thickness, radius, etc., as shown in specifications.

Substitutions will be allowed under schedule No. 3 as follows:

12 $\frac{1}{2}$ -in. O. D. lap-welded line pipe, minimal thickness 0.300-in.

OR

12 $\frac{1}{2}$ -in. O. D. Republic Resistance eld pipe, wall thickness 0.279-in.

SCHEDULE NO. 4

(Alternative to Schedule No. 5)
Seamless Line Pipe, American Petroleum Institute Grade "B," Plain Ends for Dresser Type Couplings:
Item No. 7: 12,746 ft. 12 $\frac{1}{2}$ -in. O. D. thickness; length as shown in the specifications.

Seamless Line Pipe, American Petroleum Institute Grade "B," Plain Ends for Dresser Type Couplings, hop Bent to the Radii Shown in specifications:
Item No. 8: 3949 ft. 12 $\frac{1}{2}$ -in. O. D., thickness, length and radius shown specifications.

Substitutions will be allowed under schedule No. 4 as follows:

12 $\frac{1}{2}$ -in. O. D. lap-welded line pipe, minimal wall thickness 0.300-in.

OR

12 $\frac{1}{2}$ -in. O. D. Republic Resistance eld pipe, wall thickness 0.279-in.

SCHEDULE NO. 5

(Alternative to Schedule No. 4)
Spiral Lock Section Welded Copper alloy-iron Pipe, No. 10 U. S. S. Pipe with Plain Ends for Dresser Type Couplings:
Item No. 9: 16,695 ft. 12-in. I. D., of thickness, length and radius of bends shown in specifications.

SCHEDULE NO. 6

Sieve Type Pipe Couplings, Each

Coupling to Consist of One Middle Ring, Two Follower Rings, Two Rubber Wedge Section Gaskets, and Eight Bolts for Water Pipe Line Service, Dresser Style 38 or Equal.

Item No. 10: 150 $\frac{3}{4}$ x7-in. couplings for 10 $\frac{1}{2}$ -in. O. D. pipe, with $\frac{1}{2}$ x $\frac{1}{2}$ x1 $\frac{1}{2}$ -in. extra heavy gaskets.

800 $\frac{5}{16}$ x7-in. couplings for 12 $\frac{1}{2}$ -in. O. D. pipe with $\frac{3}{8}$ x $\frac{1}{2}$ x1 $\frac{1}{2}$ -in. extra heavy gaskets.

NOTE

Schedule 2 is alternative to Schedules 3 and 4 combined or Schedule 3 and 5 combined, and award of contract will be made as follows:

Schedules 1, 2 and 6, or Schedules 1, 3, 4 and 6, or Schedules 1, 3, 5 and 6.

FRESNO, Fresno Co., Cal.—Thompson Construction Co., 2150 G St., Fresno, at \$7720 submitted low bid to the county supervisors to furnish and install pumps, pressure tanks and miscellaneous items for Fresno County Water District No. 1. Perry F. Brown, engineer, 512 Griffith-McKenzie Bldg., Fresno. Complete list of bids follows:
Thompson Const. Co.,\$7720
E. W. Redman, Fresno 8350
Geo. G. Wood, Fresno 8694
Taken under advisement until Mar. 31.

March 19.

LOMPOC, Santa Barbara Co., Cal. Pomona Pumping Co., 322 E. 3rd St., Los Angeles, awarded contract by city at \$1629 to furnish one deep well turbine pump.

MILLBRAE, San Mateo Co., Cal.—George DeGolyer, Federal Telegraph Bldg., at \$7898.25 awarded contract by the Millbrae Public Utility District to construct water distributing system. Project involves 3450 ft. 6-in. cast iron pipe, 150 4-in. dia. 3275 ft. 2-in. galvanized wrought iron pipe, 4 6-inch gate valves, 15 4-in. dia. 25 2-in. dia. 1 reinf. cone meterl manhole, 45 valve boxes, install fire hydrants furnished by the district.

A complete list of bids on this project was published in our issue of Mar. 14.

MARTINEZ, Contra Costa Co., Cal.—Until April 6, 11 A. M., bids will be received by county supervisors to furnish and install one deep well turbine pump for Contra Costa County Water Works District No. 1. Specifications on file in office of the county clerk.

GRANTS PASS, Oregon.—Following contracts awarded by city council in connection with municipal water system:

General Construction & Filter Plant to Hargreaves and Lindsay, Eugene, Ore., \$32,707. (Oliver S. Almle of O'Brien, 1907, was low at \$32,812 but desired a longer time for completion.)

Filter Plant to California Filter Co., \$14,148.

Pump Installation and Wiring to Helt and O'Donnell, Portland, at \$3083. Barr and Cunningham, engineers, Portland, Ore.

CALIFORNIA—Recommendations of the legislative water committee, setting forth projects costing approximately \$188,000,000 for the maximum conservation and utilization of water in California, have been announced. The units proposed, with estimated costs are as follows:

Kenneth reservoir, after bay and lower plant, \$84,000,000.

Contra Costa conduit, \$2,500,000.

Delta Cross channel, \$4,000,000.

San Joaquin pumping system, \$15,500,000.

Aqueducts from Friant reservoir, \$29,900,000.

Right-of-way, water rights and general expense, \$8,000,000.

Santa Ana river flood control and conservation project, \$30,000,000.

Total, \$188,000,000.

GLENDORA, Los Angeles Co., Cal.—Until 8 P. M., March 31, bids will be received by city council to furnish Class B pipe as follows:

(1) 1100 ft. 12-in. c. i. pipe;
(2) 2400 ft. 8-in. c. i. pipe;
(3) 2000 ft. 6-in. c. i. pipe;
(4) 4000 ft. 4-in. black stand screw pipe.

Certified check, 10%. Fred Long, city clerk.

SONOMATA, Sonoma Co., Cal.—Westco Chippewa Pump Sales Co., 951 Folsom St., San Francisco, at \$295 submitted low bid to the city trustees to furnish and install pumping system in the city plaza. Complete list of the bids follows:

Westco Co., San Francisco.....\$395.00
Mericy & Peterson, Sonoma..... 8403.50
(alternate)..... 368.50

Garry's Garage, Sonoma..... 408.20
Cline Electric Works..... 450.00
Scott Machinery Co..... 512.00
Jacuzzi Bros..... 654.50
Byron-Jackson Co..... 690.00

Bids were received:

PUMP: Equipped with roller or ball bearing; bronze rotor; c. i. case and cover plate; pump with capacity of 100-gals. per minute when pumping into pneumatic tank against a pressure of 40-lb. Pump to be mounted on cast iron base with raised edges to catch drip. Pump to be direct connected to electric motor by means of flexible coupling.

MOTOR: Of standard make, 220-volts, 3-phase, 60-cycle.

PRESSURE REGULATOR: Of Industrial Control, two-pole type.

TANK: California Code Tank of 550 gallons capacity, complete with water gauge and pressure gauge and openings for pump connections and drain.

All bids taken under advisement.

MISCELLANEOUS CONSTRUCTION

PALO ALTO, Santa Clara Co., Cal.—City Engineer J. F. Byrbee is preparing plans for a 4-lane subway at the Embarcadero Road crossing of the Southern Pacific Railroad, the City Planning Commission having selected that site. In addition to the four 10-foot traffic lanes, the subway would embody two wide sidewalks and a bridge over Alma Street. Demolition of the entire block bounded by Lincoln Avenue, Embarcadero Road, High Street and Alma Street, is favored as a part of the project to insure safety and convenience near the subway. A rough estimate of the city's share of the cost places it at \$85,000, exclusive of purchasing the block containing seven blocks with an estimated value of \$40,000. The Southern Pacific has expressed a willingness to pay half on the construction of a two-lane subway, estimated to cost \$124,000.

PLAYGROUNDS & PARKS

OAKLAND, Calif.—City council has started proceedings to call an election to vote bonds of \$3,850,000, of which \$300,000 is to finance increase in park and recreation facilities. Another proposition will provide \$500,000 for bringing clean salt water into Lake Merritt, with the establishment of a bathing beach and other recreational centers. Walter N. Frickstad is city engineer.

POSITION WANTED

STENOGRAPHER Bookkeeper, desires position with Architect or Contractor. Experienced in Building Construction, General Contracting and Architectural Work. Phone Filmore 7211—Miss Madden

SANTA ROSA, Sonoma Co., Cal.—Until April 7, 5 P. M., bids will be received by Ney L. Donovan, city clerk, to construct a cascade and lily pool in Fremont Park. Certified check 10% payable to city manager required with bid. Plans obtainable from office of city manager.

LOS ANGELES, Cal.—Architect Lloyd Wright, 835 N. Doheny Dr., West Hollywood, completed working plans for work to be done in Barnsdall Park for the Los Angeles Playground Dept. Work will consist of colored stone terraces, open air children's theatre, reinforced concrete wading pool, altering present Barnsdale building into a gymnasium and swimming pool. Estimated cost of work is \$60,000. The park department will handle the work.

ALAMEDA, Alameda Co., Cal.—Until April 7, 8 P. M., bids will be received by W. E. Varcoe, city clerk, to resurface south tennis court at Lincoln Park. Certified check 10 per cent payable to city required with bid. Plans on file in office of clerk.

SACRAMENTO, Cal.—A. Teichert & Son, 1846 37th St., Sacramento, at \$1095 awarded contract by city council to construct tennis court at Southside Park.

STREETS AND HIGHWAYS

ORANGE COUNTY, Cal.—Griffith Co., L. A. Railway Bldg., Los Angeles, at \$35,807 awarded contract by State Highway Commission to grade and pave with Portland cement concrete, 0.9 mile at Galivan Overhead Crossing.

HUMBOLDT COUNTY, Nevada—Until April 8, 3 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, for grading, constructing curbs, and placing surfacing material between Winnemucca and 6 miles west of Stonehouse. Certified check 5% required with bid. Plans obtainable from engineer on deposit of \$15, of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco.

SALINAS, Monterey Co., Cal.—Union Paving Co., Call Bldg., San Francisco, submitted lone bid to the Board of Public Works to improve Head St. bet. Shields and Sargent Sts., involving: 175 lin. ft. armored conc. curb, \$140; 6-in. V.C.P. side sewer, \$150; 2625 sq. ft. 6-in. class E concrete pavement, \$32.

SAN FRANCISCO—M. Bertolino, 25 Shotwell St., at \$175 submitted lone bid to Board of Public Works to construct 5,000 sq. ft. of cement sidewalks in State St. bet. Levant and Castro Sts., etc.

LOS ANGELES COUNTY, Cal.—Following bids received Mar. 25 by State Highway Commission to grade and oil 7.5 miles between Bailey's Ranch and Neenach School.

Gibbons & Reed, Burbank.....	\$48,749
Steele Finley, Santa Ana.....	55,253
Dimmitt & Taylor, L. A.....	52,322
Macco Const. Co., Clearwater.....	55,325
Owl Truck Co., Compton.....	55,989
F. W. Nighbert, Bakersfield.....	59,655
F. W. Hammer, Los Angeles.....	60,932
P. J. Akmadedich, Los Angeles.....	60,295
Chas. Ladaveze, South Gate.....	61,251
Hartman Const. Co., Bakersfield.....	61,940
D. G. Monroe, Los Angeles.....	62,617
McCray Co., Los Angeles.....	63,123
J. G. Donovan & Sons, L. A.....	69,783
C. J. Willis & Sons, L. A.....	71,970

SAN DIEGO COUNTY, Cal.—Following bids received Mar. 25 by State

Highway Commission to pave with Portland cement concrete, 8.8 miles between La Posta Creek and Campo Road Junction:

E. P. Ford, East San Diego.....	\$210,751
Basich Bros., Torrance.....	\$242,273
Match Bros., Elsinore.....	268,962
Central Calif. Roads & Southern Calif. Roads, L. A.....	269,427
Griffith Co., Los Angeles.....	285,627
Daley Corp., San Diego.....	285,753
Geo. H. Oswald, Los Angeles.....	286,545
Sandy Pearson, Santa Monica.....	303,103
Ed. Johnson & Son, L. A.....	not totaled

MENDOCINO COUNTY, Cal.—E. C. Coats, Sacramento, at \$439,470 awarded contract by State Highway Commission to grade 5.5 miles and surface with bituminous treated crushed gravel or stone surfacing, road mixed, 13.5 miles between Pepperwood and Little Dann Creek.

KERN COUNTY, Cal.—Until April 8, 4 P. M., bids will be received by F. G. Sommer, district engineer, State Highway Commission, Bishop, to treat with heavy fuel oil as a dust palliative, 21.2 miles between Mojave and the San Bernardino County line. Specifications obtainable from above.

NAPA, Napa Co., Cal.—City council declares intention (538) to improve Eighth St. bet. River St. and Soscol Ave., involving grading; 2-course emulsified asphalt macadam pavement, 0.4 ft. wide. 1911 Act. Hearing April 13. H. H. Thompson, city clerk. H. Harold, city engineer.

BERKELEY, Alameda Co., Cal.—Until April 6, 11 A. M., bids will be received by Regents of the University of California, for grading of the Geo. C. Edwards Fields on the Campus. Specifications obtainable from Cashier's Window, U. of C., Berkeley, California, on deposit of \$50, returnable. (5145) 28

MONTEREY COUNTY, Calif.—Following bids received Mar. 25 by State Highway Commission to grade and pave with Portland cement concrete, 11.1 miles between 2 miles north of Salinas and the north boundary of Peninsula Paving Co. Standard Oil Bldg., San Francisco.....\$459,358
 Baishch Bros., Torrance.....464,830
 Hanrahan Co., San Francisco.....474,300
 C. W. Wood, Stockton.....476,100
 W. F. Peck Co., Los Angeles.....481,147
 Union Paving Co., S. F.....482,586
 N. M. Ball, Porterville.....483,523
 Jahn & Bressi, Los Angeles.....492,213
 Frederickson & Watson and Frederickson Bros., Oakland.....496,518
 Healy-Thibbitts Co., S. F.....509,871
 J. F. Knapp, Oakland.....509,931
 Macco Const. Co., Clearwater.....536,407
 D. H. Ryan, San Diego.....not totaled

MARIN COUNTY, Cal.—O. A. Lindberg, 448 North American St., Stockton, at \$7450 awarded contract by

superintendent of Lighthouses, San Francisco, for constructing 2.5 mile of road in Marin County, extending from Drake's Bay into the Point Reyes Lighthouse Reservation, road to have surface of decomposed granite approx. 18 ft. wide.

MONTEREY COUNTY, Cal.—Ow Truck Co., Compton, awarded contract by U. S. Forest Service, San Francisco at \$22,497.66 for grading and installing culverts in approximately 6.6 miles of road in Santa Barbara National Forest in Monterey County, involving:

- (1) 61,188 cu. yds. excav., unclassified with overhead, \$355.
- (2) 906 lin. ft. 12-in. corr. metal culverts, hatched and in place, \$52.
- (3) 488 lin. ft. 15-in. do. \$50.
- (4) 76 lin. ft. 24-in. do. \$75

NAPA, Napa Co., Cal.—Until April 6, 7:30 P. M., bids will be received by H. H. Thompson, city clerk, (536) to construct concrete curbs in 84 ft. bet. River St. and Soscol Ave. 191 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk. H. Harold, city engineer.

MODESTO, Stanislaus Co., Cal.—County Surveyor Geo. Macomber has completed plans to construct 2 1/2 ft. shoulders on a 3 1/2 mile strip of highway on the Crows Landing Road and for resurfacing of the same strip. The cost is estimated at \$23,000. Shoulders will be 5-inch concrete.

SISKIYOU COUNTY, Calif.—Until April 16, 2 P. M., bids will be received by U. S. Bureau of Public Roads, 461 Market St., San Francisco, to grade 9.913 miles of Section "A" of Rout. 10, Weed-Medicine Lake National Forest Highway in Shasta National Forest, involving:

- (1) 63 acres clearing;
 - (2) 130,000 cu. yds. unclass. excav. for structures;
 - (3) 754 cu. yds. unclass. excav. for structures;
 - (4) 71,000 sta. yds. overhaul;
 - (5) 9,905 miles finishing chair grade road;
 - (6) 80 cu. yds. class A concrete;
 - (7) 40 cu. yds. class B concrete;
 - (8) 78 cu. yds. class C concrete;
 - (9) 19,000 lbs. reinforcing steel;
 - (10) 2,504 lin. ft. corr. galv. meta.
 - (11) 64 r.w. monuments.
- Plans obtainable from above office on deposit of \$10, checks for same to be made payable to Federal Reserve Bank of San Francisco.

SAN FRANCISCO—Western Pipe & Steel Co., 444 Market St., San Francisco, at \$681.10 submitted low bid to U. S. Forest Service to furnish culverts in connection with Santa Barbara National Forest highway project. Other bids: California Corrugated Culvert Co., Berkeley, \$683.81; Golden Gate Culvert Co., Oakland, \$760.99.

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57 Zoe St., bet. 3rd and 4th, off Brannan St. San Francisco
Phone GAfield 4374

PLUMAS-LASSEN COUNTIES, Cal.—As previously reported, bids will be received April 15 by the State Highway Commission to surface with untreated crushed gravel or stone 25.3 miles between Chester and Willards. Subject involves:

- 1450 cu. yds. roadway excav. within cut class;
- 1590 cu. yds. Imported borrow (shoulders);
- 482 stations side borrow (shoulders);
- 540 sta. yds. overhaul;
- 21,300 cu. yds. untreated crushed gravel or stone (Location A);
- 1420 cu. yds. untreated crushed gravel or stone surfacing (Location B);
- 1050 tons cut-back asphalt, Grade E;
- 15.2 miles mixing cut-back asphalt and surfacing material;
- 7233 lin. ft. timber guard rail to be reset;
- 1175 lin. ft. woven wire fence to be reset;
- 934 M. gals. water applied to surfacing;
- 758 stations preparing subgrade and finishing roadway.

SANTA BARBARA, Cal.—Atkins & Knott, 1241 Ethel St., Glendale, at 176 submitted low bid to city council to improve Canyon Percido St., involving in the main 150,000 sq. ft. 4-5-8-in. conc. pavement at 22.5c. Taken under advisement.

SAN FRANCISCO.—Architect H. A. Eaton, 525 Market St., desires graded bids in connection with the proposed women's college to be constructed on Lone Mountain, Twin Peaks Sts., San Francisco, for the San Jose School for Women. Approximately 170,000 yards are involved.

CHICO, Butte Co., Cal.—Gilmore Oil Co. Los Angeles, awarded contract by city council to furnish three grades of oil for resurfacing streets. The oil prices will be bought at following prices during the present year: 1 gal., 30 cents a barrel, for which transportation price to Chico will be .667 per barrel; grade 2, 65 cents a barrel, .667 transportation cost; grade 3, 60 cents a barrel, .667 transportation cost per ton. The oil is to be purchased through the open market.

REKA, Siskiyou Co., Calif.—City engineer Arthur O'Connor is preparing plans to pave various streets. Plans will be prepared for two types of pavement, concrete and asphalt concrete, and bids will be asked on the basis.

VASHO COUNTY, Nevada.—Until 8 a. m., bids will be received by S. Durkee, state highway engineer, Carson City, to reconstruct a portion of the state highway between Vasho Summit and Huffaker's, 9.16 miles in length, involving widening existing cement concrete pavement and resurfacing it with asphalt concrete, together with the necessary grading and construction of structures. Plans obtainable from engineer deposit of \$15, of which \$10 is refundable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco.

TEHAMA-SHASTA COUNTIES, Cal.—A separate bid listing for bids opened by U. S. Bureau of Public Roads, Improvements in Lassen-Volcanic National Park.

SAN JOSE, Santa Clara Co., Cal.—Until April 6, 11 A. M., bids will be received by Henry A. Pfister, county engineer, to improve Page road from San Antonio road (state highway) to Estradero road in Supervisor Dis-

trict No. 6. Plans obtainable from County Surveyor Robt. Chandler.

SANTA CRUZ, Santa Cruz Co., Cal.—Cardwell Const. Co., Santa Cruz, at \$3,420.40 awarded contract by city council to improve Vine Street from Church St. to Locust St., involving: (1) 10,845 sq. ft. grading; (2) 10,845 sq. ft. concrete paving; (3) 3100 ft. sidewalk; 446 ft. concrete curb; (4) 256 ft. 6-in. vitrified sewer; (5) 112 sq. ft. concrete driveway; (6) 240 ft. 4-in. vit. pipe; 1 manhole. W. E. Miller, Santa Cruz, only other bidder at \$3,744.61. Estimate of City Engineer Roy Fowler, \$3,447.95.

UKIAH, Mendocino Co., Cal.—California Corrugated Culvert Co., Berkeley, awarded contract by city council to furnish 10-in. pipe in connection with water main extensions in Oak St. Rensselaer Valve Co., 55 New Montgomery St., San Francisco, awarded contract to furnish valves.

REDWOOD CITY, San Mateo Co., Cal.—City council declares intention (N-2) to improve Main St. bet. south line of Bradford St. and the south line of the Bay Shore Highway, involving: (1) Reinforced concrete bridge of two 30-ft. spans for full width of street with 4-wing walls over Redwood Creek; (2) 100 cu. yds. excavation; (3) 500 cu. yds. backfill; (4) 522 cu. yds. concrete (1:2:4); (5) 72,808 lbs. steel ;

Storm Sewer

- (6) 295 lin. ft. 12-in. conc. pipe;
- (7) 15 lin. ft. 8-in. conc. pipe;
- (8) 2 catchbasins;

Road Levee

- (9) 200 cu. yds. excavation;
- (10) 5000 cu. yds. embankment; pavement.

Estimated cost \$26,500. 1915 Bond Act. City will pay \$10,000 of cost from general fund. Hearing April 6. B. E. Myers, city clerk. C. L. Dimmitt, city engineer.

MENDOCINO COUNTY, Cal.—Chigris & Sutcos, 2211 18th St., San Francisco, at \$11,237.60 submitted low bid to F. W. Hazelwood, district engineer, State Highway Commission, Eureka, for grading 0.6 mile between Devoy Grove and the north boundary. Complete list of bids, all referred to the Sacramento offices for decision, follows:

Chigris & Sutcos, 2211 18th St., San Francisco	\$11,237.60
H. H. Boomer, 266 Mills Bldg., 12,734.50	
Hemstreet & Bell, Marysville 14,223.20	
Smith Bros. Co., Eureka	15,047.20
J. F. Knapp, 916 Financial Center Bldg., Oakland	17,979.00

BOULDER CITY, Nev.—Walker R. Young, construction engineer for the Boulder Dam project, has announced that plans for grading and paving of streets, constructing walks, sewers, water and lighting systems are being

prepared by the Reclamation Department, and that bids will be called as soon as plans are completed.

SACRAMENTO, Cal.—A. Teichert & Son, 1846 37th St., Sacramento, at \$1055 awarded contract by city council to construct tennis court at Southside Park.

SEBASTOPOL, Sonoma Co., Cal.—Al Helwig, Sebastopol, awarded private contract by property owners to place California type pavement, curbs and gutters in Wallace St. and Bonnardel Ave.

SANTA ROSA, Sonoma Co., Cal.—County Surveyor E. A. Pugh preparing specifications for oiling approximately 100 miles of roads in various sections of the county. The cost is estimated at \$140,000.

SALINAS, Monterey Co., Cal.—Owl Truck Co., Compton, Cal., at \$18,278 awarded contract by county supervisors to construct 2 miles of highway on the Nacimiento Road in Santa Barbara National Forest, involving: 47,569 cu. yds. roadway excav. 328 ft. 12-in., 232 ft. 15-in. and 90 ft. 24-in. C.M.P. Low bid for this project was submitted by L. J. Immel, Berkeley, at \$18,253.47 whose bid was accompanied by a bidder's bond and not a certified check as required.

PACIFIC GROVE, Monterey Co., Cal.—City council declares intention (3247) to improve Evans Ave. bet. Eardley and Central Aves., Dewey Ave. bet. Evans and Central Aves., First St. bet. Lighthouse Ave. and Central Ave. and Second St. bet. Lighthouse Ave. and Evans Ave., involving grading; cem. conc. curbs and gutters; 2-in. asph. conc. pave on existing macadam pavement; 4-in. vit. clay lateral sewers. 1911 Act, Bond Act 1915. Hearing April 16. Elgin C. Hurlbert, city clerk.

PACIFIC GROVE, Monterey Co., Cal.—City council declares intention (3244) to improve Ocean View Ave. bet. Eardley Ave. and Second St., involving grading; conc. curbs and gutters; 2½-in. asph. conc. base pavement with 1½-in. asph. conc. surface; conc. catchbasins; 4-in. vit. clay lateral sewer. 1911 Act, Bond Act 1915. Hearing April 16. Elgin C. Hurlbert, city clerk.

PACIFIC GROVE, Monterey Co., Cal.—City council declares intention (3348) to improve Spruce Ave. bet. east city limits and 15th St., and bet. Fountain Ave. and Willow St., and 13th St. bet. Junipero Ave. and Spruce Ave., involving concrete curbs and gutters; 2-in. asph. conc. surface pavement on existing macadam. 1911 Act, Bond Act 1915. Hearing April 2. Elgin C. Hurlbert, city clerk.

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ALAMEDA COUNTY, Cal.—As previously reported, bids will be received April 15 by State Highway Commission to grade and pave with cement concrete 0.6 mile between Stanton Ave. and Foothill Blvd. Project involves:

- (1) 80 each, removing trees;
- (2) 16,250 cu. yds. roadway excavation without class;
- (3) 23,100 sta. yds. overhaul;
- (4) 516 cu. yds. structure excav.
- (5) 3550 tons crusher run base;
- (6) 910 tons asphalt concrete;
- (7) 500 sq. yds. class A Portland cement concrete (pavement);
- (8) 20 cu. yds. class A Portland cement concrete (structures);
- (10) 46,500 lbs. bar reinf. steel (pavement and structures);
- (11) 130 lin. ft. 12-in. corr. metal pipe;
- (12) 338 lin. ft. 15-in. corr. metal pipe;
- (13) 354 lin. ft. 18-in. corr. metal pipe;
- (14) 40 lin. ft. corr. metal pipe (clean and relay);
- (15) 200 lin. ft. 8-in. perforated metal pipe underdrains;
- (16) 210 lin. ft. 12-in. standard reinf. concrete pipe;
- (17) 216 cu. yds. concrete removed from existing pavement;
- (18) 8 each, culvert markers;
- (19) 29 stations finishing roadway;
- (20) 12 each, monuments complete in place.

The state will furnish corrugated metal pipe and cast steel frames and covers for drop inlets.

ALAMEDA COUNTY, Calif.—Until April 15, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland cement concrete, 0.6 mile between Stanton Avenue and Foothill Blvd.

LOS ANGELES COUNTY, Cal.—Until April 15, 2 P. M., bids will be received by State Highway Commission to grade 7.3 miles between Canton Creek and Piru Creek.

SALINAS, Monterey Co., Cal.—L. J. Immel, 1031 Evelyn St., Berkeley, at \$18,253.47 submitted low bid to county supervisors to construct 3 miles of highway on the Nacimiento Road in Santa Barbara National Forest, involving:

- (1) 47,569 cu. yds. roadway excav.
- (2) 328 ft. 12-in. C.M.P.;
- (3) 232 ft. 15-in. C.M.P.;
- (4) 96 ft. 24-in. C.M.P.

Complete list of bids follows:
L. J. Immel, Berkeley.....\$18,253.47
Owl Truck Company.....18,275
H. C. Dalessi.....18,898

Bids of Immel and Dalessi were rejected due to the fact that bids were accompanied by a bidder's bond and not a certified check. Bids of Owl Truck Co. taken under advisement.

TULARE COUNTY, Calif.—Until April 3, 2 P. M., bids will be received by E. F. Wallace, district engineer, State Highway Commission, Caruth and Olive Avenues, for bituminous treated crushed gravel or stone borders on 3.4 miles from westerly boundary to 3/4 mile west of the Plaza Garage. Specifications obtainable from engineer.

BAKERSFIELD, Kern Co., Calif.—City council declares intention (610) to improve alley in Block 153, between 23rd and 24th Sts., involving grading, 5-inch cement concrete pavement, 1911 Act. Hearing April 6. V. Van Riper, city clerk.

ALAMEDA, Alameda Co., Cal.—Until April 7, 8 P. M., bids will be received by W. E. Varcoe, city clerk, to resurface south tennis court at Lincoln Park. Certified check 10 per cent payable to city required with bid. Plans on file in office of clerk.

SANTA MARIA, Santa Barbara Co., Cal.—Until April 6, 7:30 P. M., bids will be received by city council to improve East Cook St. between Suey Ave. and Lincoln St. and portions of Cypress and other streets, involving: (a) 270,000 sq. ft. 4-in. asphalt concrete pavement;

(b) 2,200 ft. curb;

(c) 9,150 sq. ft. cement conc. walks.

Specifications obtainable from York Peterson, city engineer.

PLUMAS-LASSEN COUNTIES, Cal.—Until April 15, 2 P. M., bids will be received by State Highway Commission to surface with untreated crushed gravel or stone, 25.3 miles bet. Chester and Willards.

SAN JOSE, Santa Clara Co., Cal.—Until March 30, 8 P. M., bids will be received by John J. Lynch, city clerk, (5314) to improve San Fernando St. between 19th and 24th Sts., involving grading, pave with 1 1/2-in. asphalt concrete surface with 3-in. asphalt. conc. base, cement concrete curbs, walks and gutters. 1911 Act. Certified check 10 per cent payable to city required with bid. Plans on file in office of clerk. William Popp, city engineer.

SAN MATEO, San Mateo Co., Cal.—City council declares intention (31-3) to improve B St., bet. 9th and Baldwin Aves.; 2nd Ave., from San Mateo Drive to Main St.; 3rd Ave., from Ellis-ville to Railroad Aves., involving:

- (1) 24,510 sq. ft. grading;
- (2) 16,900 sq. ft. sidewalk;
- (3) 1,122 lin. ft. 12-in. curb, 24-in. gutter;
- (4) 4,538 lin. ft. 16-in. curb, 4-ft. 3-in. gutter;
- (5) 348 lin. ft. 16-in. curb, 4-ft. 9-in. gutter;
- (6) 2,334 lin. ft. 16-in. curb, 5 ft. do;
- (7) 26 lin. ft. 16-in. reinf. curb, 4-ft. 3-in. reinf. gutter;
- (8) 20 lin. ft. 16-in. reinf. curb, 4-ft. 9-in. reinf. gutter;
- (9) 189 lin. ft. 16-in. reinf. curb, 5-ft. reinf. gutter;
- (10) 2 cu. yds. reinf. columns and beams;
- (11) 21,660 sq. ft. 6-in. asphalt concrete pavement;
- (12) 1,700 tons asphalt concrete;
- (13) 613 lin. ft. 4-in. vit. pipe lateral sewers;
- (14) 840 lin. ft. 2-in. concrete pipe storm sewers;
- (15) 372 lin. ft. 18-in. do;
- (16) 591 lin. ft. 15-in. do;
- (17) 168 lin. ft. 12-in. do;
- (18) 4 manholes;
- (19) 26 catchbasins;
- (20) 89 electroliters;
- (31) 11,200 lin. ft. conduit;
- (32) 12,700 lin. ft. cable.

1911 Act. Bond Act 1915. City will pay \$1660 from General Fund. Hearing April 6, E. W. Foster, city clerk.

SAN BERNARDINO COUNTY, Cal.—McCray Co., Los Angeles, at \$247,706 awarded contract by State Highway Commission to grade and surface with oil treated crushed gravel or stone 13.6 miles between Cronise Valley and 6 miles west of Baker.

SAN MATEO, San Mateo Co., Cal.—See "Streets and Highways," this issue. Proceedings started to improve B street including ornamental street lighting system.

SAN LEANDRO, Alameda Co., Cal.—Due to protests of property owners the city council has deferred action on the installation of electroliter system in Dutton avenue.

KERN COUNTY, Cal.—A. Telchert & Son, 1346 37th St., Sacramento, at \$264,404 awarded contract by State Highway Commission for grading and the shoulders surfaced with bituminous

treated crushed gravel or stone, 28 miles between Grape Vine St. and Bakersfield.

IMPERIAL COUNTY, Cal.—John Bressi, 724 South Spring St., Los Angeles, at \$264,159 awarded contract by State Highway Commission to grade and pave with cement concrete, 6.9 miles between Holtville and East High Line Canal.

SAN FRANCISCO—Municipal Construction Co., Call Bldg., at \$919 submitted low bid to Endow of Public Works to improve University A. bet. Silver and Silliman Aves., involving:

- (a) 86 lin. ft. estimated concrete curbs, 31.40;
- (b) 192 sq. ft. asphalt conc. pavement, 2-in. asphalt conc. surface on 6-class F concrete base, \$38.

SALINAS, Monterey Co., Cal.—Council declares intention (95) to improve portions of South Main St. bet. Geil St. and Romie Lane, involving grading; hyd. cem. conc. curbs, sidewalk; 6-in. hyd. cem. conc. pavi 1911 Act. Bond Act 1915. Hearing: April 26. M. R. Keef, city clerk. H. Ardo Cozzens, city engineer.

SAN FRANCISCO—Until April 2:30 P. M., bids will be received S. J. Hester, secretary, Board of Public Work, to improve Carolina St. bet. 22nd St. and a point 152 feet south of 22nd St. Estimated cost \$25.9. Project involves:

- (1) 10,500 cu. yds. of excavation;
- (2) 344 cu. yds. class B 2500-lb. concrete walls, stairs and tallustrade;
- (3) 27,000 lbs. bar reinf. steel;
- (4) 1171 lin. ft. 12-in. V.C.P. sewer;
- (5) 792 lin. ft. 8-in. V.C.P. sewer;
- (6) 477 lin. ft. 6-in. V.C.P. sewer;
- (7) 39 1 1/2-in. Y or T branches;
- (8) 26 8x6-in. Y or T tranches;
- (9) 11 brick manholes;
- (10) 10 brick catchbasins;
- (11) 171 lin. ft. 10-in. V.C.P. culvert
- (12) 3300 lin. ft. 2x16-in. redwood curbs;
- (13) 146 lin. ft. 2x8-in. redwood curb
- (14) 42,360 sq. ft. 8-in. Wa curb at macadam pavement;
- (15) 16,221 sq. ft. 4-in. Wa curb at macadam sidewalk;
- (16) 3 red warning reflections.

Certified check 10 per cent to clerk of the Board of Supervisors required. Plans on file in office of Engineer, 3rd floor, City Hall, on deposit of \$10, returnable.

We all know of the slogan—"Concrete for Permanence"—
"Wood for Permanence"—how about it?

A current magazine article calls attention to the fact that the recent opened tomb of the ancient Egyptian Queen Hetepheres was supposed to contain the oldest furniture in existence well illustrates the effects of tin on the long-lived utility of wood. The tomb was built about 5,000 years ago. The articles found in the tomb included the carrying chair in which the Queen was transported on the shoulders of slaves through the streets of ancient Memphis. This chair is of wood embossed with gold. It was the best preserved piece found in the tomb. One of the panels was perfectly preserved, although it has shrunk to one-sixth of its normal volume. Another piece of furniture found in the tomb was the Queen's gold-cased bed and in its restored form it contained the original wood in two of the legs. The species of the material had not been accurately ascertained, but it appears to have been in part Syria fir or cedar, and in part a local EGYPTIAN redwood.

"Wood for Permanence"—how about it?

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
55	Christensen	Owner	4000
56	Joselyn	Owner	4000
57	Cereal	Owner	1250
58	Standard	Owner	3500
59	Standard	Owner	3500
60	Heyman	Owner	4000
61	Horn	Owner	3503
62	Meyer	Owner	4000
63	Berwick	Owner	3200
64	Galli	Owner	8000
65	Galli	Owner	8000
66	Kasper	Erickson	3500
67	Moran	Erickson	3800
68	Playground	Owner	5000
69	Royal	Hemel	3500
70	Quinn	Owner	4000
71	Garibaldi	Realty	3000
72	Gearon	Realty	3000
73	Besio	Owner	8000
74	Moriconi	Owner	21000
75	Andersen	Owner	4000
76	Doelger	Owner	4000
77	Mager	Owner	3500
78	McCabe	Struthers	4000
79	Ryan	Owner	5853
80	Doelger	Owner	12000
81	Stoneson	Owner	21000
82	Loftus	Owner	7600
83	Doelger	Owner	40000
84	California	Owner	1500
85	Collins	Owner	3500
86	Romero	Lindsay	3500
87	Heyden	Owner	3500
88	Hansen	Malloch	5000
89	Stoneson	Owner	21000
90	Clark	Larsen	1000
91	Schmidt	Owner	3000
92	Ferrari	Owner	1500
93	Ruppel	Owner	4900
94	Hanson	Owner	15200
95	Johnson	Owner	3500
96	Costello	Owner	9000
97	Hamel	Hamill	1900
98	Sullivan	Owner	28900
99	Milligan	Gough	5000
0	Anderson	Owner	4000

WELLING
 55) W 14th AVE. 200 N Taraval;
 one - story and basement frame
 dwelling.
 Owner and Builder—H. Christensen,
 1422 27th Ave.
 Plans by Owner. \$4000

ALTERATIONS
 50) NW LARKIN and Jackson Sts.;
 alterations to dwelling for (four)
 apartments.
 Owner—E. H. Jocelyn, 2969 2nd St.
 Plans by Builder.
 Contractor—A. E. Jocelyn, 288 Parker
 Avenue. \$4000

ALTERATIONS
 7) SE FULTON and Webster Sts.;
 alterations for concrete roof.
 Owner—Cereal Products Refining Cor-
 poration, Fulton and Webster Sts.
 Architect—Not Given. \$1250

WELLING
 58) N ORTEGA 107 W 21st Ave.;
 one - story and basement frame
 dwelling.
 Owner—Standard Bldg. Co., 218 Cas-
 tenada.
 Plans by Owner. \$3500

WELLING
 13) W 21st AVENUE 55 N Ortega;
 one - story and basement frame
 dwelling.

Owner—Standard Bldg. Co., 218 Cas-
 tenada.
 Plans by Owner. \$3500

DWELLINGS
 (370) E 17TH AVE. 161 N Pacheco;
 two 1-story and basement frame
 dwellings.
 Owner—Heyman Bros., 742 Market St.
 Architect—Not Given.
 Contractor—Day work. \$4000 ea.

DWELLING
 (371) S GRAFTON 125 W Harold;
 one - story and basement frame
 dwelling.
 Owner—J. Horn, 5044 Mission St.
 Architect—Not Given.
 Contractor—Day work. \$3500

DWELLING
 (372) E CHARES 95 S Evelyn; one -
 story and basement frame dwell-
 ing.
 Owner—Meyer Bros, 727 Portola Drive.
 Architect—Not Given.
 Plans by owner. \$4000

DWELLING
 (373) W DANTON 225 N Cayuga;
 one - story and basement frame
 dwelling.
 Owner—A. Berwick, 1525 Noe St.
 Architect—Not Given.
 Plans by Owner. \$3200

DWELLING
 (374) E 28TH AVE. 25 S Kirkham;
 two 1-story and basement frame
 dwellings.
 Owner—R. F. Galli, 1574 28th Ave.
 Architect—Not Given.
 Plans by Owner. \$4000 ea.

DWELLING
 (375) W 34TH AVE. 250 S Judah;
 two 1-story and basement frame
 dwellings.
 Owner—R. Galli, 1574 28th Ave.
 Architect—Not Given.
 Plans by Owner. \$4000 ea.

DWELLING
 (376) W DUBLIN ST. 200 S Russia;
 one - story and basement frame
 dwelling.
 Owner—Mr. and Mrs. M. Kasper, 338
 Dublin St.
 Architect—Not Given.
 Contractor—H. Erickson, 972 Chenery.
 \$3500

REPAIR DAMAGE
 (376) 617 7TH ST.; repair fire dam-
 age.
 Owner—S. Mayreson, 19 Hill St.
 Architect—Not Given.
 Contractor—J. Callaghan, 900 Clayton
 St. \$2500

DWELLING
 (377) E LEE 250 S Grafton; one -
 story and basement frame dwell-
 ing.
 Owner—Mr. and Mrs. A. Moran, 460
 Lee Ave.
 Architect—Not Given.
 Contractor—H. Erickson, 732 Chenery
 St. \$3800

RETAINING WALLS, PLAYGROUND
 (378) 18TH and 19TH AVES, Cle-
 ment and California Sts.; retain-
 ing walls for playground.
 Owner—Playground Commission, 373
 City Hall.
 Architect—Owner. \$5000

COMMERCIAL BUILDING
 (379) NE BAYSHORE and Sunny-
 dale; one-story and basement
 frame commercial bldg.
 Owner—Royal Metal Works.
 Architect—Not Given.
 Contractor—L. Henzel, 873 Capp St.
 \$3500

DWELLING
 (380) W ORD 36 N Seventeenth St.
 Two-story and basement frame
 dwelling.
 Owner—A. and B. Quinn, 229 Dolores
 St., San Francisco.
 Architect—Not Given. \$4000

DWELLING
 (381) N ONEIDA 245 NE Delano St.
 One-story and basement frame
 dwelling.
 Owner—S. Garibaldi.
 Architect—Not Given.
 Contractor—W. Warren, 614 Hanover
 St., San Francisco. \$3500

STORES
 (382) S OCEAN AVE 250 E Victoria.
 One-story frame stores.
 Owner — Mrs. E. Gearon, 2901 Van
 Ness Ave., San Francisco.
 Plans by Realty Constr. Co, 1180 Mar-
 ket St., San Francisco.
 Contractor—Realty Constr. Co., 1180
 Market St., S. F. \$3000

DWELLING
 (383) N CAYUGA 75 E Rousseau St.
 Two 1-story and basement frame
 dwellings.
 Owner—L. Besio, 534 Edinburgh St.
 Architect—Not Given. \$4000 each
APARTMENTS
 (384) NW COR. UNION and Baker
 Sts.; three - story and basement
 frame (24) apartments.
 Owner—G. Moriconi, 2290 Francisco.
 Architect—Irvine & Ebbets, New Call
 Bldg. \$21,000

DWELLING
 (385) N ULLOA 82 E 23rd Ave.; 1 -
 story and basement frame dwell-
 ing.
 Owner and Builder—P. Andersen, 2471
 26th Avenue.
 Plans by B. K. Dobkowitz, 425 Mont-
 erey Blvd. \$4900

DWELLING
 (386) E 41st AVE. 225 N Geary St.;
 one - story and basement frame
 dwelling.
 Owner and Builder—H. Doelger, 300
 Judah Street.
 Plans by Owner. \$4000

DWELLINGS
 (387) E 14th AVE. 225 S Santiago;
 two 1-story and basement frame
 dwellings.

CAPITAL CITY TILE

COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

Owner and Builders—Mager Bros. and Sons, 1359 4th Ave.
Plans by Owners. each \$3500

DWELLING
(388) W 23rd AVE. 190 S Ulloa St.; one-story and basement frame dwelling.

Owner—J. F. McCabe, 617 Castro St. Plans by Mr. Struthers.
Contractor—M. T. Struthers, 105 Lake Street. \$4000

DWELLING & STORE
(389) N TARAVAL 32 W 25th Ave.; one-story and frame dwelling with store.

Owner—D. J. Ryan, 1435 Taraval St. Plans by Owner. \$5583

DWELLINGS
(390) W 31st AVE. 25 N Lawton St.; three 1-story and basement frame dwellings.

Owner and Builder—H. Doelger, 300 Judah Street.
Plans by Owner. each \$4000

DWELLINGS
(391) N NAVAJO 177 W Cayuga; six 1-story and basement frame dwellings.

Owner and Builder—Stoneson Bros. & Thorinsson, 279 Yerba Buena Ave. Architect—Not Given. each \$3500

DWELLINGS
(392) E 20th AVE. 225 N Ortega; two one-story and basement frame dwellings.

Owner and Builder—T. F. Loftus, 1295 31st Avenue.
Architect—Not Given. each \$3800

DWELLINGS
(393) E 32nd AVE. 150 S Kirkham; ten 1-story and basement frame dwellings.

Owner and Builder—H. Doelger, 300 Judah Street.
Plans by Owner. each \$4000

ALTERATIONS
(394) 19 HENDERSON AVE.; alterations to riding academy.
Owner—California Riding School, T. Meredith, 19 Henderson Ave.
Architect—D. A. Riedy, 821 Market St. \$1500

DWELLING
(395) S LAKEVIEW 75 W Calne; 1-story and basement frame dwelling.

Owner—E. Collins, 430 Magnolia Ave., Milbrae.
Plans by J. Fratessa. \$3500

DWELLING
(396) N QUESADA 25 E Lane; one-story and basement frame dwelling.

Owner—J. Romero, 1397 Revere. Architect—Not Given.
Contractor—C. T. Lindsay, 4363 26th Street. \$3500

DWELLING
(397) W EDINBURGH 200 S Brazil; one-story and basement frame dwelling.

Owner—Mrs. W. Heyden, 436 Edinburg.
Architect—Not Given. \$3500

DWELLING
(398) E NINTH AVE. 210 S Forest Hill; one-story frame dwelling.

Owner—H. Hansen, Jr., % contractor. Plans by I. Goldberg, Santa Fe Bldg. Contractor—J. S. Malloch, 666 Mission Street. \$5000

DWELLINGS
(399) E 33rd AVE. 200 S Ulloa; six one-story and basement frame dwellings.

Owner and Builder—Stoneson Bros. & Thorinsson, 279 Yerba Buena Ave. Architect—Not Given. each \$3500

REPAIRS
(400) 77 13th St.; repair fire damage.
Owner—J. A. Clark, 40 Spear St. Architect—Not Given.
Contractor—H. H. Larsen Co., 64 So. Park St. \$1600

DWELLING
(401) E FLORIDA 251 S 26th St.; 1-story and basement frame dwelling.

Owner—Schmidt Bros., 1395 Hampshire St. Architect—Not Given. \$3000

STORE
(402) 2599 SAN BRUNO AVE.; one-story reinforced concrete store.

Architect—Not Given.
Owner—D. Ferrari, 2599 San Bruno Avenue. \$1399

DWELLING
(403) E 48th AVE. 150 N Ulloa St.; one-story and basement frame dwelling.

Owner—A. Ruppel, 604 Bush St. Plans by R. K. Dobkowitz, 425 Montecrey Blvd. \$4000

DWELLINGS
(404) NW 33rd AVENUE and Ulloa; four 1-story and basement frame dwellings.

Owner and Builder—K. Hanson, 1054 Taraval St. Plans by Owner. each \$3800

DWELLING
(405) E 29th AVE. 275 N Santiago; one-story and basement frame dwelling.

Owner—N. E. Johnson, 666 Mission St. Architect—Not Given. \$3500

DWELLINGS
(406) E 38th AVE. 150 S Anza; three 1-story and basement frame dwellings.

Owner and Builder—M. Costello, 821 34th Avenue.
Plans by Owner. each \$3000

ALTERATIONS
(407) SW COR. 17th AVE. and Callifornia Street; alterations to store front.
Owner—Mrs. A. Hanel. Architect—Not Given.
Contractor—T. Hamill Inc., 6140 Geary Street. \$1000

DWELLINGS
(408) SE COR. THIRD AVE. and Rivera; seven 1-story and basement frame dwellings.

Owner & Builder—T. J. Sullivan, 1967 Ocean Avenue.
Architect—Not Given. each \$4000

ALTERATIONS
(409) SW FIRST AVE. and Geary St. alterations for restaurant.

Owner—A. J. Milligan, Geary and Mason Streets.
Plans by A. S. Gough.
Contractor—A. S. Gough, 10 Washburn Street. \$5000

DWELLING
(410) E 27th AVE. 200 N Lawton; 1-story and basement frame dwelling.

Owner and Builder—C. Andersen, 146 Granville Way.
Architect—Not Given. \$4000

Contractor—C. T. Lindsay.
Filed Mar. 25, '31. Dated Mar. 23, '31
Tar and gravel roof on.....\$6
Broom plastered.....6
Before completion.....6
Upon completion.....6
Usual 35 days.....6
Six weeks after completion.....6
TOTAL COST, \$34
Forfeit, \$1 per day. Limit, 90 days

RUNGALOW
(59) E 41st AVE. 225 N Geary St. 25 x E 120; all work on 1-story and basement frame bungalow.
Owner—Mitchell E. and Alex. Cutler. Architect—Not Given.
Contractor—Henry Doelger, 300 Judah Street.
Filed Mar. 25, '31. Dated Mar. 19, '31
Plaster on.....\$1037
Completed.....1037.
Usual 35 days.....2975.
TOTAL COST, \$4150.
Limit, 90 days after March 23.

BUILDER'S BOND

SAN FRANCISCO COUNTY

Bush St. and Treasury Place. Ow er, Mills Estate, Inc., Mills Bldg.; contractor, Concrete Engineering Co. 1280 Indiana St. Bond, \$1025. Sure Massachusetts Bonding & Insurance Co. Filed Mar. 29, 1931. Dated M. 3, 1931.

COMPLETION NOTICES

San Francisco County

Recorded & Accepted
March 19, 1931—W DIVISADERO 60 S Lombard S 60 x W 37-6. P Martinet to J B Bourdieu & Son.....March 19, 1931
March 19, 1931—W VERNONT 156 N 24th 25x125. G and M Gotto F Amatore.....March 14, 1931
March 19, 1931—E DANTON 200 N Cayuga 25x100. A Berwick to whom it may concern.....March 17, 1931
March 19, 1931—LOTS 14, 15 and 16 Blk 2945A. Sut No 5. Miraloma Fk Meyer Bros to whom it may concern.....March 18, 1931
March 18, 1931—W 32nd AVE 225 N Balboa N 25 x W 120. A Conrad Johnson to whom it may concern.....March 17, 1931
March 18, 1931—W 27th AVE 25 S Riviera St S 25 x W 82-6. B Mirsky and Son Inc to Standard Eld Co.....March 18, 1931
March 24, 1931—S THOMAS AVE 175 E Jennings 50x100. R E and C White to whom it may concern.....March 23, 1931
March 24, 1931—W 34th AVE 175 S Judah 25x120. P S Miller to whom it may concern.....March 24, 1931
March 29, 1931—S MARINA BLVD det S 80 deg 54 min W 314-686 S 80 deg 54 min W 30 S 90 deg 06 min E 96-027 N 86 deg 36 min E 20-149 N 9 deg 06 min W 99-021. A Thraur to M Jorgensen.....March 25, 1931
March 29, 1931—E DANTON 100 and 125 N Cayuga 25x100. James T Keeley to whom it may concern.....March 23, 1931
March 23, 1931—W BAKER 25-84 N Sacramento N 55-6. H W Johns to whom it may concern.....March 20, 1931
March 20, 1931—March 20, 1931
March 21, 1931—NO. 2712-16-18 MISION St. S H Kress & Co to K E Parker Co, March 20, 1931; James A Nelson, Inc, Feb. 3, 1931; Home Mfg. Co., Inc.....March 20, 1931
March 29, 1931—E VICTORIA 140 S Holloway Ave S 25x E 100 Ptn Blk

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
58	Romero	Lindsay	3465
59	Cutler	Doelger	4150
(58)	LOCATION and kind of work not given.		
	Owner—J. Romero. Architect—Not Given.		

45, City Land Assn. Gust Jehm to Carl Jehm.....March 16, 1931
 arch 20, 1931—S LOMBARD 89-10
 J D'Alondro E 25X5 100. Salvatore Turco to whom it may concern.....March 20, 1931
 arch 20, 1931—S SUTTER, 44x100; Nos. 531-533 Sutter. Dr M Hart to Binns-Kuhn Co.....March 14, 1931
 arch 10, 1931—W FORTY-FOURTH Ave 100 S Irving 25x120. Peder P H Silverman to whom it may concern.....March 20, 1931

320 Pullignieri Owner 3000
 321 Lehman Owner 6500
 322 Hagan Nylander 5500
 323 Hansen Owner 6500
 324 Kroger Owner 2200
 325 Justice Owner 4500
 326 Reid Owner 5000
 327 Pitts Owner 3500
 328 Monez Owner 3000
 329 Lyon Owner 3500
 330 Pleitner Watson 2950
 331 Peterson Owner 4000
 332 Smith Dawson 3500
 333 Schmidt Nylander 4500
 334 Sedberg Berg 4000
 335 Lockins Owner 3500
 336 Flagg Watson 3000
 337 Fleming Owner 3350
 338 Gaid Marietti 3000
 339 Cerrito Warn 4000
 340 Flynn Beadell 7339
 341 Leach Booth 3000
 342 Fleming Owner 3350
 343 Taylor Owner 3000
 344 Barker Owner 5700

1-story concrete and frame warehouse.
 Owner—American Development Co., Financial Center Bldg., San Francisco.
 Architect—J. E. Krafft & Son, Phelan Bldg., San Francisco.
 Contractor—Daniel O'Neil, 273 Marina Blvd., San Francisco. \$10,000

DWELLING
 (312) N SANTA RAY 400 E Paloma Ave., OAKLAND. One-story six-room dwelling.
 Owner—Chas. E. Quigley, 464 Van Ness Ave., Oakland. \$4000
 Architect—Not Given.

DWELLING
 (315) NO. 9916 HOLLY ST., OAKLAND. One-story 6-room dwelling.
 Owner—Manuel Costa, 1528 105th Ave., Oakland.
 Architect—Not Given.
 Contractor—C. W. Griffith, 1427 87th Ave., Oakland. \$3500

DWELLING
 (314) W GROSVENOR PLACE 130 N Trestle Glen, OAKLAND. One-story 5-room dwelling.
 Owner—F. B. Kerrick, 953 Grosvenor Place, Oakland.
 Architect—Not Given.
 Contractor—Geo. W. Anderson, 689 Arimo Ave., Oakland. \$4000

ADDITIONS
 (315) NO. 2222 EIGHTY-NINTH AVE., OAKLAND. Additions and alterations.
 Owner—Miss M. E. Hitchcock, 2222 89th Ave., Oakland.
 Architect—Not Given. \$1000

FOUNDATION
 (316) NW TWENTY-FIRST ST. & Broadway, OAKLAND. Concrete foundation.
 Owner—Pacific States Auxiliary Corp 745 Market St., San Francisco.
 Architect—A. F. Roller, Crocker First Natl. Bank Bldg., San Francisco.
 Contractor—P. J. Walker Co., 607 Sharon Bldg., S. F. \$60,000

DWELLING
 (317) W SHEFFIELD 40 N E-Twenty ninth St., OAKLAND. One-story 5-room dwelling and one-story garage.
 Owner—C. W. Leekins, 1650 Hopkins St., Oakland.
 Architect—Not Given. \$3250

STORES
 (318) NO. 1334-36 GILMAN ST., BERKELEY. One-story Class C (3) store building.
 Owner—Coast Income Properties Inc., 2122 Shattuck Ave., Berkeley
 Architect—Noe Given.
 Contractor—W. E. Lyon, 354 Hobart St., Oakland. \$7000

DWELLING
 (318) MAGDALENA AVE., SAN LEANDRO. One-story 5-room dwelling.
 Owner—J. R. Carvalho, Cecilia Court, San Leandro.
 Architect—Not Given.
 Contractor—J. M. Boga, 435 Callan Ave., San Leandro. \$3100

GARAGE
 (319) NO. 2916 NEWBERRY AVE., BERKELEY. Class C garage.
 Owner—J. B. Ginochio, 675 46th St., Oakland.
 Architect—Not Given.
 Contractor—F. P. Butterfield, 2488 Shattuck Ave., Berkeley. \$1200

(320) W SEVENTY-NINTH AVE 100 S Garfield, OAKLAND. One-story 6-room dwelling.

DWELLING
 (302) 817 TALBOT AVE., ALBANY; five-room dwelling.
 Owner and Builder—Earham Co., 1005 American Bldg., Oakland.
 Architect—A. W. Smith, American Bldg., Oakland. \$3800

DWELLING
 (303) 612 CURTIS ST., ALBANY; 6-room dwelling.
 Owner and Builder—Alton E. Gould, 1040 Ramona Ave., Albany.
 Architect—Not Given. \$3500

DWELLING
 (304) 1037 SANTA FE AVENUE, ALBANY; five-room dwelling.
 Owner and Builder—T. Pedersen, 2145 Grant St., Berkeley.
 Plans by Owner. \$3000

SERVICE STATION
 (305) 1949 SHATTUCK AVE. BERKELEY; greasing service station, class C.
 Owner and Builder—Standard Oil Co., 19th and Broadway, Oakland.
 Architect—Not Given. \$1000

DWELLING
 (306) 807 CARMEL AVE., ALBANY; six-room dwelling.
 Owner and Builder—F. A. Stokes, 325 Berkeley Pk. Blvd., Berkeley.
 Plans by Cwner. \$4000

DWELLING
 (307) 961 ARBOR DRIVE, SAN LEANDRO; 1½-story 6-room dwelling.
 Owner—L. L. Gregory.
 Architect—Not Given.
 Contractor—J. H. Pickrell, 332 Santa Clara, Alameda. \$4000

DWELLING
 (308) 792 ROSEMOUNT RD., OAKLAND; two-story 7-room dwelling.
 Owner and Builder—James M. Wheeler, 1018 69th Ave., Oakland.
 Architect—Not Given. \$6250

ALTERATIONS
 (309) 1733 HOPKINS ST., OAKLAND alterations and addition.
 Owner—M. and G. T. Williams, 1733 Hopkins St., Oakland.
 Architect—Not Given.
 Contractor—R. W. Littlefield, 337 17th St., Oakland. \$1000

DWELLING
 (310) E 80th AVE. 100 N Idlewood, OAKLAND; one-story four-room dwelling and 1-story garage.
 Owner—H. Pendleton, 8325 Birch St., Oakland.
 Architect—Not Given.
 Contractor—George Duncan, 2523 78th Ave., Oakland. \$2100

WAREHOUSE
 (311) 1329 SIXTH ST., BERKELEY;

LIENS FILED

San Francisco County

Recorded	Accepted
arch 19, 1931—NE CORTLAND Ave 6-48 SE Moultrie 28-04 N 63-03 W 23 S 67-39. A Cook vs R E Taube, J and Q Battaglia.....\$147.10	
arch 19, 1931—W LYON ST 35 N Clay N 100-4½ W 137-6 S 35-4½ E 27-6 S 65 E 110. A Thorsen, \$125.-40 Pacific Mfg. Co., \$1916.51, vs H O and W R Lindeman, G and E Llevre.....\$112.35	
arch 18, 1931—S PAGE ST 65 E Laguna St E 27-6 x S120. Leonard Lumber Co vs Dr C C Malschire and C L Joubert.....\$122.35	
arch 18, 1931—E 28th Ave 250 N Clement N 25 x E 120. G Spinozzi vs D and E D'Arigo.....\$43	
arch 18, 1931—SE CCR TURK & Leavenworth Sts E 82-6 x S 57-6. M Silverman vs O P Frederick.....\$32	
arch 23, 1931—SOUTH 14th 100 W Landers W 35-04½ SW 90 SE 125-½ NE 28-10½ N 135. C Andersen vs E C Fitzer, H and F Klussmann.....\$3500	
arch 23, 1931—NW MISSION ST, 187 NE Geneva Ave NE 25-795 NW 104-023 SW 25 SE 110-376 m or 1 blk 5 West End Map No 1. Frank Amatore vs Mary and Nick Eterovich.....\$2763.70	
arch 23, 1931—NW MISSION ST, 118-97 NE Geneva Ave NE 25-795 NW 104-023 N 97-8 SW 25 SE 110.-876. Frank Amatore vs M and N Eterovich.....\$2763.70	
arch 21, 1931—LOT 2 BLK 3161, Westwood Park, M E Brazil vs S and Mrs. R Morton.....\$312	
arch 24, 1931—NE GOLDEN GATE Ave and Broderick E 30 x N 120. W B Zane vs C. E. Lynn.....\$1155	
arch 24, 1931—LOTS 7 and 8 Blk 1 Heyman Tract. Coleman Scott vs S Rosen, J and M Facile.....\$150	

RELEASE OF LIENS

San Francisco County

Recorded	Amount
arch 18, 1931—NW PINE & Larduno W 135 x N 137-6. J Cassaretto o J Cowell and Keys & Silverson.....	

BUILDING CONTRACTS

ALAMEDA COUNTY

Owner	Contractor	Amt.
Barham	Owner	3800
Gould	Owner	3800
Pedersen	Owner	3000
Standard	Owner	1000
Stokes	Owner	4000
Gregory	Pickrell	4000
Wheeler	Owner	6250
Williams	Littlefield	1000
Pendleton	Duncan	2100
American	O'Neil	10000
Quigley	Owner	4000
Costa	Griffith	3500
Kerrick	Anderson	6000
Hitchcock	Owner	1000
Pacific States	Walker	60000
Leekina	Owner	3250
Coast	Lyon	7000
Carvalho	Boga	3100
Ginochio	Butterfield	1200

Owner — F. Pullgnieri, 2520 Parker Ave., Oakland.
 Architect—Not Given. \$3000

DWELLING
 (321) 1723 MORELAND DRIVE, ALAMEDA; two-story 7-room frame and stucco dwelling.
 Owner and Builder—J. Lehman, 959 Appgar St., Oakland.
 Plans by Owner. \$6500

DWELLING
 (322) 3123 BAYO VISTA AVE., ALAMEDA; two-story 8-room frame and stucco dwelling.
 Owner—Clinton M. Hardin, Oakland.
 Plans by Nylander Bros.
 Contractor—Nylander Bros., 623 Montclair Ave., Oakland.
 \$6500

DWELLING
 (323) 1642 MORELAND DRIVE, ALAMEDA; one-story 6-room frame and stucco dwelling.
 Owner and Builder—C. Hansen, 1500 Santa Clara Ave., Alameda.
 Plans by Owner. \$5500

DWELLING
 (324) 829B LINCOLN AVE., ALAMEDA; one-story 3-room frame and stucco dwelling.
 Owner—Meta Kroger, 826 Pacific Ave., Alameda.
 Plans by Owner.
 Contractor—E. T. Kroger, 826 Pacific Ave., Alameda. \$2200

DWELLING
 (325) 980 PEARL ST., ALAMEDA; two-story 6-room frame and stucco dwelling.
 Owner and Builder—N. F. Justice, 973 Pearl St., Alameda.
 Plans by Owner. \$4500

DWELLING
 (326) 630 SAN MIGUEL AVE., BERKELEY; two-story 7-room 1-family frame dwelling and garage.
 Owner—C. B. Reid, 2139 Sacramento St., Berkeley.
 Plans by Joe Villa, 1207 Solano Ave., Albany. \$5000

DWELLING
 (327) 463 VERMONT AVE., BERKELEY; one-story 5-room 1-family frame dwelling and garage.
 Owner—Geo. H. Pitts, 520 Battery St., San Francisco.
 Architect—I. L. Graves, 629 Valla Vista Ave., Oakland. \$3500

DWELLING
 (328) 1890 CLEMENS ROAD, OAKLAND; one-story 5-room dwelling.
 Owner and Builder—A. H. Monez, 4250 Arden Place, Oakland.
 Architect—Not Given. \$3000

DWELLING
 (329) E MELCON AVE. 300 N Bird-sall, OAKLAND; two-story 6-room dwelling.
 Owner and Builder—C. D. Lyon, 6501 Buena Ventura, Oakland.
 Architect—Not Given. \$3500

DWELLING
 (330) E MAPLE AVE. 90 N Wisconsin, OAKLAND; one-story 5-room dwelling.
 Owner—H. A. Pletner, 1301 Fruitvale Ave., Oakland.
 Architect—Not Given.
 Contractor—Wm. Watson, 4750 Mel-don Ave., Oakland. \$2950

DWELLING
 (331) N SHEFFIELD 286 E East-29th St., OAKLAND; one-story 6-room dwelling.
 Owner and Builder—Louls Peterson, 2879 E 17th St., Oakland. \$4000
 Architect—Not Given.

ALTERATIONS
 (332) NO. 2812 RUSSELL ST., BERKELEY. Alterations. \$3000

Owner—Mrs. Vernon A. Smith.
 Architect—Not Given.
 Contractor—J. Dawson, 1507 Lincoln St., Berkeley. \$2500

DWELLING
 (333) NO. 825 BRIDGE ROAD, SAN LEANDRO. One and one-half-story six-room dwelling.
 Owner—E. A. Schmidt.
 Architect—Not Given.
 Contractor—Nylander Bros., 623 Montclair Ave., San Leandro. \$4500

DWELLING
 (334) 3814 MIDVALE AVE., OAKLAND; one-story 5-room dwelling.
 Owner—Geo. A. Hedberg, 3810 Midvale Ave., Oakland.
 Architect—Not Given.
 Contractor—A. M. Berg, 2854 Midvale Ave., Oakland. \$4000

DWELLING
 (335) E LEO WAY, 80 N Duncan Way, OAKLAND; one-story six-room dwelling.
 Owner and Builder—C. W. Leekins, 1650 Hopkins St., Oakland.
 Architect—Not Given. \$3500

DWELLING
 (336) W GUIDO ST. 40 S Bennett Place, OAKLAND; one-story five-room dwelling.
 Owner—J. S. Flagg.
 Architect—Not Given.
 Contractor—Wm. Watson, 4750 Mel-don Ave., Oakland. \$2000

(337) W 25th AVE. 140 NE 18th St., OAKLAND; one-story six-room dwelling.
 Owner and Builder—John Fleming, 4261 Suter St., Oakland.
 Architect—Not Given. \$2950

RESIDENCE
 (338) NO. 2615 MATHEWS, BERKELEY. One-story 5-room 1-family frame residence and garage.
 Owner—F. Gaid, 1026 Pardee St., Berkeley.
 Architect—Not Given.
 Contractor—Chas. Marietti, 1261 Stan-age Ave., Berkeley. \$3000

DWELLING
 (339) W MILES AVE. 200 N 51st St., OAKLAND; one-story six-room dwelling.
 Owner—A. Cerrito.
 Architect—Not Given.
 Contractor—Warn Bros., 419 E Merle Court, San Leandro. \$4000

DWELLING
 (340) 5566 CARLTON Street, OAKLAND; two-story 7-room dwelling.
 Owner—L. F. Flynn, 940 35th Street, Oakland.
 Architect—Not Given.
 Contractor—B. e a d e l l and Lane, 909 Spruce St., Berkeley. \$7399

ALTERATIONS
 (341) SW COR. 26th St. and Valdez Ave., OAKLAND; alterations.
 Owner—Harry E. Leach, Easton Bldg., Oakland.
 Architect—Not Given.
 Contractor—B. Booth, 375 Euclid Ave., Oakland. \$3000

DWELLING
 (342) 4285 MONTEREY Blvd., OAKLAND; one-story 6-room dwelling.
 Owner and Builder—Andrew Fleming, 4120 Culvert St., Oakland.
 Architect—Not Given. \$3950

DWELLING
 (343) 4066 WOODRUFF AVE., OAKLAND; one-story 5-room dwelling.
 Owner and Builder—F. S. Taylor, 2973 Hopkins St., Oakland.
 Architect—Not Given. \$3000

DWELLING
 (344) 2564 BUENA VISTA, BERKELEY; one-story 5-room 1-family residence.
 Owner and Builder—S. Barker, 50 Hilgard, Berkeley.
 Architect—Casebolt Dakin, 1507 Ash St., Berkeley. \$300

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor At.
53	Flynn	Beadell '99
54	Roman	Icardi 110
55	Appelbaum	Marchant 100

RESIDENCE

(52) LOT 68 AND PTNS LOTS 7 AND 69 Bik A/7022, Broadway Terrace, Oakland.	All work ext plumbing and roofing for one d one-half-story 8-room frame d stucco residence.
Owner—L. T. Flynn, Oakland.	Architect—Not Given.
Contractor—R. Beadell and Geof. Lane, 662 Fairview Ave., Oakhd	Filed Mar. 21, '31. Dated Mar. 19, '31.
Rafters placed	1845
1st coat plaster on	1845
Building completed	1845
Usual 25 days	1845
	TOTAL COST, \$7390
Bond, none.	Limit, 120 days
April 1, 1931.	Forfeit, plans and specifications, none.

PARISH HOUSE

(64) W 82nd AVE. near Atherton I, Oakland; general construction 1 Parish House.	
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin I., San Francisco.	
Architect—H. A. Minton, 618 Under-wood Bldg., San Francisco.	
Contractor—Ernest Icardi, 227A C-ingwood, San Francisco.	
Filed Mar. 23, '31. Dated Mar. 12, '31.	
First of each month	20
Usual 25 days	20
	TOTAL COST, \$11,130
Bond: Labor and Materials, \$11,130.	
Performance, \$1138.	
Surities, Asst. Casualty & Surety Co. Forfeit, \$25 1/2 day. Limit, June 30, 1931. Plans al Spec. filed.	

DWELLING

(55) LOT 3 BLK 1, Resub of B: 9, 10, 11, 12, 13 and 14 and ptn., Rock Ridge Terrace, Oaklar.	general construction on two-stc frame and stucco dwelling and garage.
Owners—Carl and Lucille J. App-erly, Oakland.	Architect—Masten & Hurd, Shr-Bldg., San Francisco.
Contractor—Gordon Marchant, 2 Bruce St., Oakland.	
Filed Mar. 24, '31. Dated Mar. 7, '31.	
When frame is completed	2707
When brown coated	2707
When building is completed	2707
Usual 35 days	2707
	TOTAL COST, \$10,600
Bond, \$5415.	Surities, H. H. Chiffo-A. H. Marchant. Forfeit, \$10 per d Limit, 90 days. Plans and Spec. file

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded

Mar. 24, 1931—ESTUDILLO. South-ern Pacific Co to E E Dias (two completions)	March 14, 19
Mar. 23, 1931—NW PARK and Eu-cinal Aves, Alameda. The Texas Company to The Dyer Const Co.	March 22, 19
Mar. 23, 1931—2615 MOUNTAIN Blvd, Oakland. Fred T Dooley to whom it may concern	March 21, 19

rch 23, 1931—W EDWARDS Lane adjoining the north boundary line of the Sunny Acres Tract in Casero Valley, Eden Twp. A E Pelton r to whom it may concern..... March 29, 1931

rch 21, 1931—NW EIGHTH/THI/TH Ave 570 NE Hillside Ave., Oakland. George and Eleanor Duncan o whom it may concern..... March 29, 1931

rch 21, 1931—LOT 5 BLK 8, Map of Broadmore, San Leandro. Glenn G Mason to Leo J Dolan..... March 27, 1931

rch 20, 1931—LOT 8 BLK 22, Map of Town of Newark. Lillian J Iulido to G H Kouns. March 16, 1931

rch 29, 1931—STATE HIGHWAY, et. Hayward and Niles, Ppty of et. H. Lund. Department of Public Works, Division of Highways, State of Calif. to Peter L P Lund..... March 17, 1931

rch 20, 1931—LOT 8, Grand Oak Tract, Alameda. Walter H Anderson to whom it may concern..... March 20, 1931

rch 18, 1931—LOT 24 BLK K Durant Manor, Oakland. Park H Hebbary, Frank A Stokes to whom it may concern..... March 14, 1931

rch 17, 1931—LOT 18 BLK 8, San 6, Map No 8 of Regents Park, Able Park, Berkeley. John R Loskinen to whom it may concern..... March 14, 1931

rch 16, 1931—LOT 20 BLK K, Dustr to whom it may concern..... March 17, 1931

rch 18, 1931—81 BONNIE Lane, Berkeley. O M French to Self..... March 15, 1931

rch 17, 1931—LOTS 7 and 8 Blk at Manor, Oakland. James B Irubb to whom it may concern..... March 16, 1931

LIENS FILED

ALAMEDA COUNTY

Recorded Amount
rch 19, 1931—PTN LOT 1, Grand Avenue Terrace, Oakland. Tokelven Oil Tank & Pump Co vs G Prentice and Artel L Philbrick doing business as Prentice Const Co, and D and Bettie Berovich..... \$57.80
rch 19, 1931—LC 23, Grand View Terrace, Berkeley. Thos E Scanlon, Fred L Weems vs Lincoln Mortgage Company..... \$287
rch 16, 1931—141 WOODLAND Vay, Piedmont. Weldon Sheet Metal Products Co vs Howard C Horton..... \$165
rch 23, 1931—PTN LOT 21 BLK V, Grand Ave Heights, Piedmont. A Cain vs Theodore R Dienger..... \$87.50
rch 20, 1931—E HAMILTON 200 Felton Lot 14 Blk 35 R R Hd. ssn. A G Ferrera vs Wm F Ferneln..... \$57

RELEASE OF LIENS

Alameda County

Recorded Amount
rch 17, 1931—LOT 22 BLOCK G, Harmond Pines, Oakland. Lewis Hager doing business as Hager ash & Door Co to J M Walker, John Doe..... \$629.15
rch 23, 1931—PTN PLOT NO 2, Lakeshore Highlands, Oakland. Madden Heating Corp to Jos Beroldy doing business as Jos Beroldy..... \$155
rch 20, 1931—LOT F-102, Fairway Estates, Oakland. Morgan Lee Co Ltd to L W Appa r and Peterson..... \$31.50
rch 13, 1931—PTN LOTS 8 and 9, Map of the Town of Pleasanton. V P Fuller & Co to J J Amaral..... \$50
rch 17, 1931—LOT 22 BLOCK G, Harmond Pines, Oakland. Malott

& Peterson, \$655; Golden Gate Plumbing Shop, \$444.37; Inland Floor Co, \$459; Maxwell Hardware Co, \$229.64; H K Flowers, \$240; H W Hoffman, \$565.55, to J M Walker.....

BUILDING PERMITS

SAN MATEO

AUTO cabins (3), laundry and showers, \$1800; Lot 30 Resub. Lots 1-13, Anthony's Sub., San Mateo; owner and contractor, Mrs. Mary A. Ward, Premises.
RESIDENCE, \$4500; Lot 12 Blk 9, No. 1948 South Palm Ave., San Mateo; owner and contractor, Domenico Baccell.
RESIDENCE, \$6000; Lot 9 Blk 8, No. 2444 El Camino Real, San Mateo; owner, Joe Piccoli, Route 1 Box 35, San Mateo; contractor, Alfred Piccoli.
STORE, \$2662; Lot 10 Blk 19, South Railroad St., San Mateo; owner, Jose Lacasranand, 124 North Railroad St., San Mateo; contractor, Lengfeld & Olund, 145 El Camino Real, San Mateo.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
March 16, 1931 — LOT 4 BLK 2, Burlingame, Lloyd V Forbers to Moses Little..... March 19, 1931
March 16, 1931—LOT 19 BLK B, Poy's Redwood Gardens. Louis Foss to Sam B Goss. March 14, 1931
March 16, 1931 — PART LOT 28, Linda Vista Tract, San Mateo. Frank J Mathelson to whom it may concern..... March 16, 1931
March 16, 1931—LOT 4 BLK 2, Baywood Park. William Casey to Joseph Fee..... March 16, 1931
March 16, 1931—LOT 24 BLK 4, Burlingame Land Co. Ingvard Sorensen to whom it may concern..... March 25, 1931
March 16, 1931—PART LOT 9 BLK 4, Burlingame Hills. Aug J Lang Jr to whom it may concern..... March 14, 1931
March 17, 1931—LOT 7 BLK 19, Huntington Park. Thos E Bowler et al to whom it may concern..... March 16, 1931
March 17, 1931—LOT 8 BLK 1 Burlingame. C A Dibble to whom it may concern..... March 17, 1931
March 17, 1931 — LOT 8 BLK 19, Huntington Park. Thomas E Bowler et al to whom it may concern..... March 16, 1931
March 18, 1931—LOTS 49 AND 50 Blk 10, San Bruno. Mathew Anderson to whom it may concern (2 completions)..... March 17, 1931
March 18, 1931—LOT 31, Brookside Orchard. Louis Kezich to A G Heald..... March 16, 1931
March 20, 1931—LOTS 24 AND 25 Blk 22, Dumbarton. Nellie I Longford et al to whom it may concern..... March 20, 1931
March 20, 1931—LOT 5 BLK 15, Bay-

wood. J F Emmert to whom it may concern..... March 18, 1931
March 20, 1931—LOT 13 BLK 11; Lot 18 Blk 12; Lot 15 Blk 23, Milbrae Highlands. Castle Bldg Co to Henry Horn..... March 17, 1931
March 21, 1931—LOT 2 BLK 27, Milbrae Highlands. Arne M Arneson to whom it may concern..... March 16, 1931
March 21, 1931—LOT 12 BLK 23, Sub 1, Burlingame Shore Land Co. E D Ward to whom it may concern.....

LIENS FILED

SAN MATEO COUNTY

Recorded Amount
March 16, 1931—LOT 4 BLK 11, Edgewood Park. Eureka Sash, Door and Moulding Co vs Jesse R Rudkin et al..... \$301.81
March 18, 1931—LOTS 14 AND 15 Blk 2, Bay View Heights. C L Frost vs Martin Peterson et al..... \$481
March 18, 1931—LOT 12 BLK 8, San Bruno. R Pariani vs E Petersen et al..... \$72.25

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded Amount
March 16, 1931—LOTS 47 AND 48 Blk 11, San Bruno. Henry Cowell Lime & Cement Co to Millard A Whitelock.....
March 18, 1931 — LOCATION NOT Given. Henry Cowell Lime & Cement Co to J R MacDonald.....
March 21, 1931 — LOT 4 BLK 11, Edgewood Park. Eureka Sash & Door Co to Jesse R Rudkin et al.....

BUILDING PERMITS

SAN JOSE

RESIDENCE, 6-room, frame, \$3500; 17th St near Mission, San Jose; owner, R. Blackmore, 589 N-16th St., San Jose; contractor, W. H. Lee, 50 N-First St., San Jose.
ALTER frame restaurant building, \$1600; Location Omitted, San Jose owner, F. Cook, Oil Station, Santa Clara at Seventh St., San Jose; contractor, L. S. Gurley, 269 Edgewood Road, Redwood City.
DWELLING, 2-story, 4 apts., \$10,750 Second near Taylor St., San Jose; owner, C. Moon, 371 S-Eighth St., San Jose; architect and contractor, San Jose; architect and contractor, Bldg., San Jose.
RESIDENCE, frame, 5-room, \$5000; Riverside St. near Coe, San Jose; owner and contractor, Gibson Wheeler Co., 217 Beans Bldg., San Jose.
RESIDENCE, frame, 5-room, \$3000; Grant St. near Vine St., San Jose; owner, J. Canova, 325 Grant St., San Jose; contractor, C. Fullaro, 901 Vine St., San Jose.
ALTER frame residence, \$1000; No. 672 Morse St., San Jose; owner,

Member Insurance Brokers' Exchange

FRED H. BOGGS INSURANCE 490 GEARY STREET

Phone FRanklin 9400

San Francisco

Mr. Boomer, Premises; contractor, Benj. Quimet, 655 Riverside Ave., San Jose.

BUSINESS building, Class C, \$1865; Seventh St. near Santa Clara, San Jose; owner, H. H. Madsen, 400 S-16th St., San Jose; architect, C. S. McKenzie, Twohy Bldg., San Jose; contractor, June Gohrausen, Rt. 2, Box 231, San Jose.

RESIDENCE, frame, 5-room, \$3000; Waco St. near Newhall, San Jose; owner and contractor, E. Parker Hall, 518 Myrtle St., San Jose.

RESIDENCE, 5-room frame, \$3700; Fifteenth St. near Empire St., San Jose; owner, R. B. Martin, 336 N-Eleventh St., San Jose; contractor, Geo. E. Krichbaum, 340 E-Reed St., San Jose.

STORE and residence, frame, \$6700; Delmas and Marshall Sts., San Jose; owner, D. Dellamaggio, Premises; architect, Wolfe & Higgins, 19 N-Second St., San Jose; contractor, A. Giacalone, 240 Race St., San Jose.

SERVICE station, gasoline, steel and glass, \$1200; NE Julian and San Pedro Sts., San Jose; owner, Aliphine Gas Co., Letcher Garage, 214 N-First St., San Jose; contractor, Geo. Kelly, 448 Almaden St., San Jose.

RESIDENCE, 8-room frame, \$8000; Ayer St. near First St., San Jose; owner and contractor, A. H. Wilson, 592 Curtner St., San Jose.

RESIDENCE, 5-room frame, \$2500; 20th St. near William St., San Jose; owner and contractor, S. E. Minnick, 1230 Sherman St., San Jose.

RESIDENCE, 5-room frame, \$3850; Hester St. near Dana, San Jose; owner, F. N. Loewen, Villa Scaroni S-Sixth St., San Jose; contractor, B. H. Fenter, Gordon Ave., R. F. D., San Jose.

RESIDENCE, 6-room frame, \$3800; Park near Race St., San Jose; owner, Emilio Gagliardi, Eugene Ave., San Jose; contractor, F. Amoroso, 1053 Park Ave., San Jose.

ALTER frame apartment house, \$1500 No. 494-6 S-Sixth St., San Jose; owner, Mrs. Jordan, Premises; contractor, P. D. McCormack, 430 N-Fifth St., San Jose.

BUILDING PERMITS

REDWOOD CITY

DWELLING and garage, frame, \$2500 518 Jefferson Ave., Redwood City; owner and contractor, J. Grandlund, 5931 Bromley St., Oakland.

DWELLING, frame, 2-story and garage, \$10,000; No. 823 Durlston Rd. Redwood City; owner, H. E. Bourquin, 2710 Broadway, Redwood City.

DWELLING, frame, \$1000; No. 1839 Poplar Ave., Redwood City; owner, Peter Guranoff; contractor, Miles Rice, 1737 Redwood Ave., Redwood City.

DWELLING and garage, frame, \$4000 No. 56 Grand St., Redwood City; owner, Wm. Harper Nunn; contractor, T. B. Lauman.

DWELLING and garage, frame, \$3500 No. 1014 Iris St., Redwood City; owner, C. R. Raffensperger, 509 Jefferson Ave., Redwood City.

DWELLING and garage, frame, \$3600 No. 220 Madison St., Redwood City; owner, J. Ahern, 1008 Cortez St., Burlingame; contractor, C. D. Williams, 515 Jackson St., Redwood City.

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$11,000; No. 2070 Waverly St., Palo Alto; owner,

Alfred Johnson, 275 Santa Rita Ave., Palo Alto.

RESIDENCE, stucco, \$3000; No. 981 Addison Ave., Palo Alto; owner, T. H. Enoex; contractor, A. C. Heald, 1921 University Ave., Palo Alto.

GREENHOUSE, \$1500; No. 299 Tennyson Ave., Palo Alto; owner, M. R. Higgins, 299 Tennyson Ave., Palo Alto; contractor, F. W. Fox, 1101 Waverly St., Palo Alto.

ADD to residence, \$2000; No. 115 Webster St., Palo Alto; owner, A. F. Bearsley, 115 Webster St., Palo Alto; contractor, Roy H. Head, 626 Webster St., Palo Alto.

BUILDING PERMITS

BURLINGAME

BUNGALOW, \$5000; Lot 12, Gates-Oxford, Burlingame; owner, Allen & Co., Burlingame Gates, Burlingame; contractor, A. W. Schneck.

BUNGALOW, \$5600; Part Lots 4 and 5 Blk 15 E 1 Magilla, Burlingame; owner, Ray Greene, 1440 Cabrillo St., Burlingame; contractor, All Guss.

APARTMENTS (11), \$25,000; SE Bayshore Highway and extension of Winchester Dr., Bay Shore Lane; owner and contractor, B. T. Cobo.

DWELLING, \$4000; Lot 10 Blk 36, L. and H. Stanley Road, Burlingame; owner and contractor, G. S. Conger, 325 Bush St., San Francisco.

BUILDING PERMITS

STOCKTON

RESIDENCE, 6-rooms and garage, \$4000; No. 1237 E-Washington St., Stockton; owner, Wm. Peenstra, 2261 Kensington Way, Stockton.

DWELLING, one-story rustic, \$4000; No. 920 W-Elm St., Stockton; owner and contractor, Robert R. Wagner, Bank of Italy Bldg., Stockton.

DWELLING, one-story rustic, and garage, \$4200; No. 1859 Allston Way, Stockton; owner, J. M. Helterbrand, 2644 E-Main St., Stockton.

REMODEL store building, \$4000; No. 547 E-Market St., Stockton; owner, Hickenbotham Bros., Frem.

DWELLING, 2-story frame and stucco and garage, \$7400; No. 170 Euclid Ave., Stockton; owner, Elizabeth Marstella Frost, Premises; contractor, Randolph & West.

DWELLING, one-story rustic, and garage, \$4000; No. 1621 W-Harding Way, Stockton; owner and contractor, H. H. Thurston, 433 E-Wyandott St., Stockton.

REMODEL growers market, \$1000; No. 126 W-Wilson Way, Stockton; owner, San Joaquin Marketing Assn., Premises; contractor, O. H. Chain, Bank of America Bldg., Stockton.

DWELLING and garage, rustic, \$4000; No. 1734 Mt. Diablo Ave., Stockton; owner, J. M. Morris; contractor, F. Paul Dobson, 1150 W-Harding Way, Stockton

EMPLOYEES quarters, 2-story reinforced concrete, \$27,160; No. 1102 N-California St., Stockton; owner State of California; architect, Geo. B. McDougall, Public Works Bldg., Sacramento; contractor, Samuel Eyre, Tracy.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded March 17, 1931—GRANT St. (Woodrow Wilson Junior High School Site, San Jose. San Jose High

School District to William Myer.....March 16, 1931

March 17, 1931—COM. 100 FT. from int. Jackson St. and N 21st St. E 90 ft. N part 21st St. 47 ft. W part Jackson 90 ft. to 21st St. on 21st St. 47 1/2 ft. to point beginning, San Jose. Wm Fox to whom it may concern.....March 16, 1931

March 17, 1931—LOT 8 BLK 50, Map No. 2, Seal Addition to Town of Palo Alto. Edgar H and Ann D Tucker to whom it may concern.....March 16, 1931

March 17, 1931—LOT 17 BLK 3 Map No. 2, 11-4-07 "M" Maps Town of Los Altos. G C at Anne Pitts to whom it may concern.....March 16, 1931

March 17, 1931—PTN LOT 74, L Altos Country Club Property Loyola. C Q Carlson to whom it may concern.....March 16, 1931

March 17, 1931—E-SANTA CLAR St. (Site of Theodore Roosevelt Junior High School), San Jose San Jose High School District San Jose Iron Works; Joe Provenzano; Garden City Glass Co., The Roofing Co.; A J Peters; Son; Hately & Hately; Rigns Tile Co.; Payne Hardware C Superior Metal Products Co.....March 26, 1931

COMPLETION NOTICES

MARIN COUNTY

Recorded March 16, 1931—SAN ANSELMO Everett W Ruhl to whom it may concern.....March 12, 1931

March 17, 1931—SAN RAFAEL Marin Lodge No. 206, I. O. O. F. to Sleser & Kendall. March 16, 1931

RELEASE OF LIENS

MARIN COUNTY

Recorded March 16, 1931—SAN ANSELMO George Wolfe to C A Service at Harold Sulfer.....March 12, 1931

March 17, 1931—FAIRFAX, Thoma W Tinkler to Florence M Rodge.....March 12, 1931

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded March 18, 1931—LOT 1 BLK D Burgess Co's Map No. 3, Parkside Addition and Racetra Sub. George E and Muriel Sch Associated to M S Hogan.....March 12, 1931

March 18, 1931—E 1/2 LOT 1 BLK 35, Boulevard Gardens Tract N 1 Bessie Rose, 1414 Ryder S Vallejo to D A Arrenson and E Bickford.....March 16, 1931

March 18, 1931—LOT 6 BLK C, Berkeley Woods, Richmond. Chas L Kloss, 676 Woodmont St to Irwin Reimers.....March 9, 1931

March 19, 1931—LOT 4 BLK 1, Pittsburg. K E Parker Co to Victor A Kaufenberg.....March 13, 1931

March 19, 1931—S 1/2 LOTS 1 AND BLK 69, Town of Antioch. Joel Syme to J M Guab.....March 15, 1931

March 19, 1931—LOT 7 BLK 3, Crockett Heights. Nicholas J at Mary Hughes Jacobs to Peter and Fred S Wind.....March 17, 1931

March 20, 1931—LOTS 25 AND 26, Blk 30, North Berkeley Terrace Alessandro Agrati to whom it may concern.....March 12, 1931

March 23, 1931—LOT 38 and N Lot 37 Blk 7, Richmond City Center. O L Meon to whom it may concern.....March 21, 1931



BUILDING *and* ENGINEERING NEWS

Publication Office
547 Mission Street

SAN FRANCISCO, CALIF., APRIL 4, 1931

Published Every Saturday
Thirty-first Year No. 14



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Building and Engineering News will be sent to subscribers until ordered stopped and all orders to discontinue must be sent in writing to this office.

NEW BUILDINGS OF UTILITIES SUBJECT TO LOCAL TAXATION

Various California cities and counties learned last Tuesday they could add thousands of dollars to treasuries under a state supreme court decision holding buildings of public utilities corporations under construction are subject to local taxation.

The decision was handed down in a test case brought by the Southern California Telephone Company and the Pacific Telephone and Telegraph Company against Los Angeles county. Under protest the companies paid \$78-384 in taxes on exchange buildings under construction.

They brought suit to recover and the trial court ruled in favor of the utilities but the supreme court reversed the finding. The plaintiffs contended the assessed buildings were "operative property" and were subject only to state taxation, assessed on a basis of utility receipts.

Written by Justice W. H. Langdon and concurred in unanimously, the state supreme court's ruling stated in part:

"Since property under construction is not in use and does not contribute to gross receipts, it escapes taxation altogether unless taxed locally; this court holds it should be locally taxed."

FEDERAL TRADE BODY SEEKS CEMENT DATA

A request has been received by Senator Herbert C. Jones, San Jose, from the Federal Trade Commission for full reports of the proceedings of the legislative committee which in 1929 investigated the price of cement in California.

Senator Norris of Nebraska has presented in congress a resolution asking for an investigation of cement prices throughout the country, and the probe is expected to ascertain whether or not prices are fixed by agreement between cement companies.

The senate, at its 1929 session, adopted a resolution by Senator Henry E. Carter, Los Angeles County, calling for an investigation of the operations of the so-called cement trust in California.

Senator J. M. Inman of Sacramento, was made chairman. The committee gathered considerable testimony, but its work was hampered by a ruling of the state supreme court which declared the senate was without authority to compel the appearance of company officials with certain books and documents, and could not punish them for failure to give certain evidence before the committee.

However, the committee made a report, and a complete transcript of the proceedings, together with the report will be forwarded by Jones to the commission.

SKYSCRAPER

Stone, steel and concrete, rivets, tiles and drains; Errow, skill and daring.

But, above all, brains.

All these together,

In a proper blend, Cause the proud structure Skyward to ascend.

Hopes, bitter heartaches,

Failure and success;

Big thoughts and petty;

Fears, foolhardiness—

In will move all these

On the opening day,

To remain tenants

Till the walls decay.

—A. N. Weeber.

According to an Associated Press dispatch from New York, the skyscraper obsession is denounced by Louis Le Beaume, St. Louis architect, in a study prepared for the Architectural League of New York. He writes that we are "deducing ourselves in the faith that heaven may be reached in an elevator."

LEASE ATTORNEY FOR BOULDER CITY NAMED BY WILBUR

Honorable Louis C. Cramton of Michigan, former member of Congress, has been appointed as Special Attorney to the Secretary of the Interior, to have charge of the appraisal of lands and the making of lease concessions for residential and business property at Boulder City, Nevada, the new town which is to be the place of abode of the workers who will build Hoover Dam, it is announced by Secretary Wilbur.

Cramton's headquarters will be at Wraxton's, D. C., but much of his time will be spent at the townsite. The land at Boulder City will be owned by the Government and leased by those who want to live on or conduct business establishments on it. Cramton will pass on these leases.

Leases of lots will provide the conditions under which they may be continued or terminated. Violations of law as, for example, bootlegging, and gambling, will automatically terminate these leases. Thus Boulder City will have a means of law enforcement that will be peculiar to itself.

Public notice will be given when applications for leases can be filed and it will probably be May 1st before lots have been appraised and the necessary application blanks prepared for distribution.

February wholesale prices of six standard plumbing fixtures for a six-room house, ascertained by the Bureau of the Census from reports of 12 representative manufacturers a nd wholesalers, averaged \$96.45 as compared with \$95.25 in January, \$103.69 in February, 1930, and \$98.41 in February, 1929.

EDWARD R. BACON TAKES ON NEW LINES

In line with the company's policy of constantly striving to serve the entire construction industry with the most complete and up-to-date construction equipment, Edward R. Bacon, president of the company bearing his name, announces the acquisition of four well-known lines of machinery which will round out the already well-balanced representation of the company. The new additions to this list are the Lakewood Engineering Company, of Columbus, Ohio, the Lidgerwood Manufacturing Company, Elizabeth, New Jersey, the Midwest Locomotive Works, Hamilton, Ohio, and the Ohio Locomotive Crane Co., Bucyrus, Ohio.

"From a very small beginning in 1910, we have attempted to build up an organization in the West, capable of furnishing Western contractors with a complete line of machinery and with a capable service organization," stated Mr. Bacon. "The addition of these four famous manufacturers marks another step forward in the realization of our ambition."

The Lakewood Engineering Co. manufactures a complete line of large and small construction equipment, including road pumps, road forms, finishing machines, batch hoxes, sub graders, grade rooters, float bridges and straight edges.

The Lidgerwood Manufacturing Co. specializes in construction hoists, aerial equipment and catwalks. Lidgerwood equipment has an enviable reputation in America, having been used almost exclusively on many large projects, including the Panama Canal.

"Efficiency that matches your haulage needs," is a slogan that clearly indicates the field covered by the Midwest Locomotive Works. They manufacture gasoline, Diesel, gas electric and Diesel-electric locomotives in sizes ranging from 4 to 80 tons.

The Ohio Locomotive Crane Company manufactures erection cranes, logging cranes, wharf, barge and gantry cranes, railroad pile drivers, crawler cranes and the Ohio Tractor Dump Wagon.

The main office of the Edward R. Bacon Company is a 17th and Folsom Streets, San Francisco, where a large warehouse is maintained. Immediate delivery on a majority of the lines handled can be made direct from this warehouse. In addition, the company maintains sales, service and display facilities at San Jose, Fresno, Oakland and Sacramento, Calif., and at Reno, Nev., and Honolulu, T. H.

According to newspaper dispatches from New York, dated March 23, a new corporation to be known as the Penn Heat Control Company, in which General Electric Company has a controlling interest, has been formed to take over all assets, including patents and good will, of the Penn Heat Control Corporation of Philadelphia, specializing in apparatus for automatic regulation of temperature in household heating.

IMMEDIATE INAUGURATION OF FIVE-DAY WEEK URGED BY UNION CHIEF AS ONLY LASTING RELIEF MEASURE FOR UNEMPLOYED

(Radio Address of Charles P. Howard, President of the International Typographical Union)

The condition from which the workers, business, and industry is now suffering constitutes a most serious indictment against our industrial leaders. While there were being developed methods and machinery by which one worker would produce as much as many who had been previously employed, those who control employment resisted reduction of the work day and the work week. Their failure to recognize the simplest and most obvious economic truth is largely responsible for the present condition of depression, bankruptcy, and unemployment. Refusal to deal upon a collective basis prevented complete organization of the workers. Now that all elements are confronted with a condition, the seriousness of which few recognize, the agencies through which the necessary remedies might be applied are lacking. In industries which are unorganized there is not the machinery for co-operation of all elements so essential to success. Industries in which the workers are partially organized presents a problem equally difficult. We are without the one agency through which it is possible to establish and maintain conditions which prevent destructive competition with its inescapable effect upon elements which must be fixed.

It must be realized that criticism will not solve our problem. It is apparent that machines are "producers," but they have not the ability to purchase and consume that which is produced. The people are not consumers, and a vast majority are workers who can consume only that which they can buy with the wages for which they can sell their labor.

Through the development and use of machines in almost every line of production one worker engaged eight hours per day, six days per week, will produce more than two workers could under methods previously used. In the domestic and export market it is not possible to dispose of that which is produced by the more than a million wage earners working a full week. As a consequence with their machines and modern methods it requires the services of but one-half the number of workers to produce the same quantity as was formerly produced by all those engaged in the industries.

Some of those displaced by machines have been absorbed by newly developed lines of industry. Those who could not be absorbed have involuntarily enlisted in the army of unemployed. Not being able to sell their labor, they were unable to buy and consume that which was being produced by their more fortunate brothers and the machines they operated. This resulted in reducing the "domestic demand" upon which the prosperity of the Nation rested. Because of the inability of those displaced to buy, other industries were unable to sell and discontinued or curtailed operations. This added more workers to the lists of the unemployed and continued the operation of the vicious circle which has brought loss of profit or bankruptcy to the investor, hard times to management, and hunger, misery, and suffering to the unemployed millions and their dependents.

Conferences have been held under Federal, State and local auspices to deal with the problem. Officials of high and low degree have discussed and deplored the condition. But few have had the courage to deal with the question in other than gen-

eralities, and fewer have expressed a willingness to apply the only remedy which will permanently improve the condition.

In the enjoyment and practice of our democracy the control of industry has remained autocratic. Not even the Federal Government can require our industrial captains, either individually or collectively, to do the one thing that will substitute for bankruptcy. The responsible head of each industry ignores the situation or naively suggests that some other line should apply the remedy. Apparently it does not occur to them that the co-operative system as practiced in America is facing its severest test. They refuse to recognize that American ideals and institutions are on trial. Resting on the security of full stomachs and satisfying their desires from accumulated profits, they are content to "let the clouds roll by" and await the return of prosperity's sunshine. They comment that we have suffered panics in the past, and in due time prosperity returned.

But what must be the feeling of the unemployed husband and father who is willing to work but unable to sell his labor for money with which to buy bread? What must be the workings of his mind as he walks the streets, half fed and poorly clad, looking into the glowing windows of comfortable homes the occupants of which know nothing and appear to care less about his condition? How long will he and the millions suffering from involuntary unemployment remain true to American ideals and satisfied with the conception of industrial liberty now practiced when he thinks of a wife and children at home suffering because of insufficient food, clothing and fuel? Is it possible for those who know not the pangs of hunger, or the suffering from cold, to understand what it means? Winter and unemployment means just that—and nothing less—to millions who are willing to work but unable to find it. Under such a condition in the richest Nation in the world, where there can be no question about the ability of industry to meet the needs of all, are we not justified in asking: Is business and industry serving the people, or have they become the master of our workers?

The remedy should be apparent. To meet the immediate need, governments, corporations, and individual industries should create every job possible. Opportunity for employment should be extended to the greatest number of workers by the adoption of the five-day work week. It is not suggesting that industries should close down one day during the week other than Sunday. Such a plan of operation would not bring best results. In one establishment which claims to attempt recently five hundred workers were employed six days per week. This meant the use of three thousand days of man power. The operation was organized upon a five-day basis. One hundred additional workers were employed, making six hundred working five days. The result was the same—three thousand days per week. One hundred workers were off each day during the week in addition to Sunday, and the industry operated six days with five hundred workers each day. In thus staggering the work week, twenty per cent more workers were employed. The same system can be applied to in-

dustries employing a larger or smaller number with the same result.

Another speaker who recognized the seriousness and danger of the present situation declares: "The only way to remedy the present economic depression is to remedy unemployment. And the best way to remedy unemployment is for American employers to accept the five-day week."

Official spokesmen for both the Republican and Democratic parties have declared that the five-day week must become permanent and universal for workers in America. And in giving their indorsement, the Scripps-Howard newspapers declare there is evidence of a "revolution in American economic thought," and assert "that machine production must be kept in relation to mass purchasing power."

There is no problem of greater importance, or more dangerous to established order, than unemployment when it affects millions of citizens of a nation. In those industries where the workers have been able to establish and maintain effective organizations the situation has been relieved by dividing employment and payment of out-of-work benefits from funds created by the union assessing its members who remain at work. In the unorganized industries nothing remains for unemployed workers but charity.

We repeat to add force to the statement. The present condition constitutes a serious indictment against business and industrial leaders, and the responsibility can not be evaded or the consequences avoided. Immediate inauguration of the five-day week offers the only lasting relief. This change permanently established will return the necessary balance between production and consumption to place the economic situation upon an even keel. In a nation of intelligent people it should not require a revolution to distribute the benefits resulting from invention and mechanical progress.

CONSTRUCTION ACTIVE IN HAWAIIAN ISLANDS

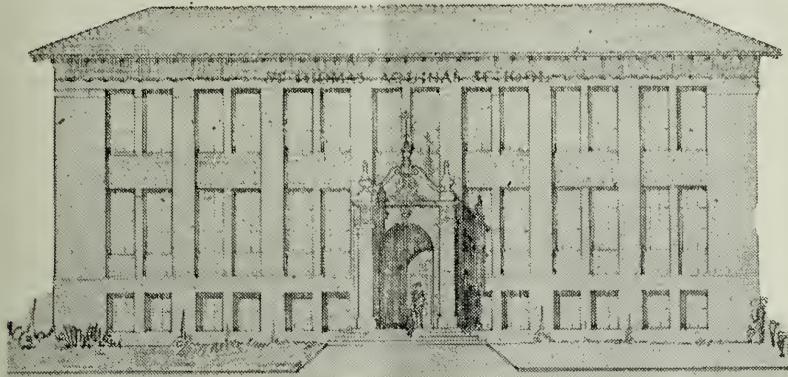
According to recent reports from Honolulu more than the usual number of construction jobs have been started in that city, says Engineering News-Record. Bids have been asked by the board of water supply on three projects involving the expenditure of \$450,000 clearing Nuuanu No. 2 reservoir with the enlargement of the spillway and relocation of the Nuuanu Pali road, the Kaimuki reservoirs and water mains in the lower Wilhelmina Ridge and Palms Valley districts and installation of 16-in. water mains in the Kapahulu-Kaimuki district.

Plans have been announced for three projects to be financed from the \$580,000 fund recently made available for Hawaii by the federal government, a 5-mile extension of highway on the Kamehameha system from Wahiawa junction to Kemo, extension of the Dillingham road to Puuloa and the Kamehameha highway between Kahuku and Hauula.

Honolulu has plans for a \$2,876,505 road program to extend over the next five years, of which the city will pay \$1,263,485, the federal aid will provide \$250,000 and assessments will provide the remainder.

Contract for construction of a block of 32 buildings at the Schofield Barracks has been awarded to the Marks Construction Company for \$388,880, and work will be started soon.

ST. THOMAS AQUINAS PAROCHIAL SCHOOL AT RENO, NEVADA



F. J. DeLONGCHAMPS, Architect.

(Courtesy Reno Gazette)

Construction is progressing rapidly on the new parochial school for the St. Thomas Catholic Aquinas Church in Reno, Nevada. The building will be two-story and basement of brick and concrete construction and when completed will involve an expenditure of \$135,000. J. C. Dillard of Reno, is the general contractor.

JANUARY BUILDING ACTIVITY IN LEADING CITIES
THROUGHOUT THE UNITED STATES**

CITY	One-family Dwellings		Two-family Dwellings		Multi-family Dwellings		Total for the Month		Families Added	Pop.*
	No.	Cost \$	No.	Cost \$	No.	Cost \$	No.	Cost \$		
Atlanta	19	49,000	2	5,100	1	50,000	427	318,321	57	347,391
Baltimore	26	176,000	14	79,000	1	275,000	878	1,254,920	190	789,921
Berkeley	12	57,150	.....	.....	.....	.....	83	90,000	.....	81,542
Boston	47	240,300	14	102,500	5	321,000	346	977,268	164	783,451
Buffalo	4	12,400	8	43,400	.....	.....	186	1,509,790	20	572,217
Chicago	60	382,700	.....	.....	17	172,000	116	2,838,400	107	3,372,753
Cincinnati	35	220,300	2	21,500	5	55,500	793	722,505	61	447,550
Cleveland	20	113,200	2	27,500	.....	.....	359	1,266,500	26	901,482
Denver	17	68,000	.....	.....	2	100,000	239	508,400	30	287,728
Detroit	117	597,690	18	128,000	2	33,600	578	4,996,059	189	1,564,397
Indianapolis	18	149,550	5	22,000	.....	.....	280	327,468	28	362,527
Kansas City	26	124,000	1	3,000	.....	.....	129	814,800	28	332,640
Los Angeles	275	897,245	60	332,650	24	314,750	2062	3,790,283	561	1,531,790
Milwaukee	15	86,000	1	17,000	.....	.....	277	488,255	17	252,049
Memphis	14	76,000	5	36,000	1	60,150	150	851,797	60	568,962
Minneapolis	50	354,790	7	50,350	1	12,000	208	407,255	68	462,611
New Orleans	18	50,700	1	5,500	.....	.....	37	109,468	20	451,634
New York	.....	.....	.....	.....	.....	.....	.....	.....	.....	6,968,792
Bronx	20	144,500	14	108,500	14	2,668,000	345	8,005,910	682	.....
Brooklyn	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Manhattan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Richmond	.....	.....	.....	.....	.....	.....	125	488,742	28	.....
Queens	352	1,969,400	.....	.....	30	1,205,000	670	4,465,729	919	.....
Oakland	36	126,475	.....	.....	6	295,600	258	680,447	.....	284,213
Omaha	12	40,200	1	8,000	.....	.....	32	87,225	14	214,184
Philadelphia	61	385,500	.....	.....	.....	.....	360	1,008,275	61	1,963,000
Pittsburgh	12	85,500	4	12,900	1	15,000	54	160,170	27	47,950
Phoenix	28	121,400	5	36,000	.....	.....	33	167,400	28	644,795
Portland	38	187,450	.....	.....	.....	.....	398	628,550	55	299,122
San Diego	38	151,000	.....	.....	2	32,000	265	506,523	56	147,897
St. Louis	36	161,900	5	37,500	1	36,000	382	1,942,275	67	817,324
San Francisco	84	235,000	3	24,100	2	25,500	89	231,600	100	625,374
Seattle	156	492,310	5	24,000	1	140,000	468	906,145	176	362,436
Washington, D. C.	102	666,780	.....	.....	.....	.....	103	666,780	103	485,716

*Population figures taken from 1930 Federal Census.
**Prepared by J. J. Rees Engineering Company of Los Angeles; data from respective cities' building departments.

THE OBSERVER

What He Hears and Sees on His Rounds

Times are good in the wall paper industry, reports E. D. Belknap, executive vice president of the Wall Paper Association, who says factories are running full time to fill demands for paper that has set a record for recent years. He attributes it to the development of non-fade paper and designs in brilliant colors.

The California Lime Products Company of Sacramento, with sales offices in San Francisco, has purchased limestone properties and a mill site, comprising 145 acres, on the main line of the Southern Pacific near Towle, Sacramento County, for a consideration of \$125,000. In making this announcement, R. E. Mittelstaedt, president of the company, said the deposits constitute the largest and most accessible in the state. Work of opening the quarry will start at once, so the company may produce solid carbon dioxide, known as "dry ice," agricultural lime, chicken grits and other lime products at a plant to be constructed near Sacramento. Mittelstaedt said the project will give employment to 100 men.

Setting his liabilities at \$128,046, Charles G. Adams, contractor of San Mateo, has filed a petition in bankruptcy. He is joined by his wife, Mary E. Adams. The only assets are listed as \$4207 due him.

A study of the opportunities for American engineers in Russia and the conditions in that country will be made by a committee of the American Society of Civil Engineers consisting of Philip W. Henry, chairman; George H. Pegrum, George W. Kittredge, John R. Slatery and R. W. Hebard. It is not the intention of the committee to send any of its members to Russia, but information will be sought from engineers who have engaged in work in that country and returned here. It is expected that the committee will be able to make at least a preliminary report to the board of direction at its meeting in Norfolk, Va., in April.

Inventories in lumber mills are being reduced weekly and are lower than at this time last year, the West Coast Lumbermen's Association says in reporting 342 mills operated at 40.93 per cent of capacity for the week ending March 21, compared with 73.03 per cent for the period a year ago, and 41.77 per cent for the week ending March 14. Current new business reported by 222 mills was 20.36 per cent over production and shipments 50 per cent under. During the last thirteen weeks orders have averaged 12.97 per cent over production.

The annual convention of the National Terrazzo & Mosaic Assn. will be held at Atlanta, Ga., April 27 to 30 inclusive. Headquarters will be maintained at the Biltmore Hotel.

According to newspaper dispatches from Modesto, the Superior Tile and Products Company of Oakland, has sued George F. Covell, owner of the Hotel Covell and the Hotel Covell annex; E. K. Nelson, a contractor, and the Southern Surety Company of New York, for \$4295, alleged due for materials and labor furnished in building the annex. Violation of a contract is alleged in the complaint.

The regular monthly index figure computed from realty deeds recorded in sixty-four cities by the National Association of Real Estate Boards is 66.7 for February, showing an increase of more than a half a point over the figure of 66.0 in January. These figures are based on the norm 100 used for deeds recorded in the year 1926.

Directors of Pacific Portland Cement Company last Friday declared the regular quarterly dividend of \$1.62½ per share on the preferred stock. The dividend will be payable April 4 to stockholders of record March 31.

Grace Peregó of San Francisco has accepted appointment as chairman of the women's division, northern area, of the California Real Estate Association, for the second successive term. Her objectives are membership increase, service to and by the State association, permanency of the women's committees, and closer contact with other women brokers.

Side sewer contractors were aided by the Oakland city council through the passage to print of amendments to the plumbing ordinance introduced by Commissioner Frank Colbourn. Colbourn explained that the amendments remove discriminations which have worked a hardship on the contractors by making the posting of a cash bond optional and permits them to pay the license in quarterly installments of \$12.50 instead of \$50 annually in advance. Master plumbers have recently granted permission to pay their licenses quarterly.

This country uses 55 million pounds of copper a year—roughly 3% of domestic production—for electric wiring purposes, according to a survey just made by the Copper & Brass Research Association. There are about 24 million domestic users, nearly 85% of them domestic users. Only 627,000 out of over 6 million farm houses are wired, but progress in that field is steady. The survey finds that electric equipment manufacturers and others are favoring a heavier gage wire than previously considered adequate for service requirements. Change from 14-gage to 12-gage wire would increase copper consumption 7 million pounds.

February, 1931, shipments of steel-furniture stock goods, as reported to the Bureau of the Census by 34 manufacturers in the "business group," totaled \$1,598,809, as compared with \$1,797,619 in January, \$2,549,650, in February, 1930; \$3,287,818 in February, 1929, and \$2,908,527 in February, 1928. February shipments of shelving, compiled from reports of 16 companies, totaled \$355,594, as compared with \$392,884 in January, \$682,752 in February, 1930, \$974,305 in February, 1929, and \$681,999 in February, 1928.

Holders of common stock of United States Steel Corporation increased 7215 in the three months ended with the date for closing the books for the March dividend. The total on that date was 149,122, compared with 141,947 in December. At the end of September there were 135,504 holders of common stock and in March, 1930, the total was 124,069. The February preferred dividend went to 58,701 stockholders, against 59,171 in November and 61,312 in February of 1930.

ALONG THE LINE

H. N. Bishop, consulting civil engineer of San Jose, addressed the Engineers' Club of that city last Tuesday. Bishop described his experiences as a civil engineer with the Great Northern Railroad.

W. W. Lane, state highway engineer of Arizona, has tendered his resignation. He gave as his reason reductions by the state highway commission of salaries of employees in the department amounting to more than \$30,000 a year, which, he said, would make it impossible to maintain an efficient organization.

Henry Ives Cobb, 71, nationally known architect, died in New York City March 28. Mr. Cobb was credited with being the designer in 1889 of the Owings Building in Chicago, said to be one of the first successful steel construction type structures.

Chas. W. Manly has been appointed to succeed Jean L. Vincenz as deputy county surveyor of Fresno county, it is announced by Chris. F. Jensen, Fresno county surveyor. Manly was formerly employed as a draftsman in the Fresno Department of Public Works. He resigned that position two years ago to enter private practice. Vincenz has declared his intention of being a candidate for the office of city commissioner of public works of Fresno at the coming municipal election.

George W. Roberge, secretary of the Board of Public Works, has been appointed acting head of the Seattle Municipal Lighting Department, a position recently vacated by J. D. Ross.

W. C. Miller, head of the Columbus Lumber Co., Seattle, has been re-elected president of the Western Retail Lumbermen's Association.

HAWAIIAN NAVAL PROJECT TO BE UP FOR BIDS SHORTLY

Bids will be asked in the immediate future by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for the development of the Naval Ammunition Depot at Oahu, Hawaii. The project covers the construction of 131 buildings, approximately 1½ miles of railroads, 1½ miles of paved roads and electrical, telephone and water supply systems.

The bureau expects to have the drawings and specifications available for distribution about April 10 for the receipt of bids approximately sixty days thereafter.

ARIZONA LEGISLATURE DEFEATS DAY LABOR

A bill proposing to use day labor in the construction of the highways of Arizona, instead of using the contract system which has prevailed in that state, was defeated recently by the legislature by a vote of 36 to 25. The use of day labor had been urged by Governor Hunt as an unemployment relief measure but the legislature opposed this suggestion, saying that the use of day labor would result more harmful toward this end than the contract system and that funds were lacking to purchase the equipment needed in order to put a day labor system into effect.

TRADE LITERATURE

Dual compressor control, a method of regulation which compensates for varying air demand, thus decreasing power consumption and reducing unnecessary wear on the compressor is described in a 4-page folder issued by the Pennsylvania Pump & Compressor Co., Easton, Pa.

A discussion of modern principles and practice in floodlighting is presented by the Westinghouse Lamp Company and the Westinghouse Electric & Manufacturing Company in a new joint publication entitled, Sky-lines Beyond the Twilight Zone, identified by the companies as A-1293 and assigned A.L.A. No. 31-F-24. In this 23-page publication, D. W. Atwater, Commercial Engineering Department, Westinghouse Lamp Company, describes the advantages of floodlighting and gives recommendations useful in making floodlighting installations. Included are several photographs showing floodlighted office buildings, monuments, towers, industrial plants, residences, athletic fields, filling stations, and other structures. Photographs and descriptions of Westinghouse floodlighting equipment are also included.

"Back of the Mack" is the title of a 20-page booklet issued by Mack Trucks, Inc., 25 Broadway, New York City, which tells the history of the Mack organization and gives a brief résumé of its products, including motor trucks, tractors and trailers, buses, fire apparatus and switching locomotives.

G. M. DEALERS GET GROUP INSURANCE

General Motors Corp. becomes the first half-billion policy holder in the history of life insurance with the extension of its group life plan to include its 19,000 dealers and their employees. This will bring in 150,000 individuals in addition to the 160,000 employees of the corporation already covered.

General Motors Corp. employees already have \$347,000,000 of life insurance in force and the new policies will increase the total to well above the \$500,000,000 mark. The policies are written by the Metropolitan Life Insurance Company.

Insurance will be issued without medical examination, as is usually the case, and will include total and permanent disability clauses. Since 1926, when the corporation adopted group insurance, over \$7,000,000 have been paid to beneficiaries of 4,380 General Motors employees. At the beginning of the year 99.6% of all G. M. employees eligible were insured under the plan.

An involuntary petition in bankruptcy was filed in Los Angeles last Monday against Claus Spreckels, San Diego capitalist. The plaintiffs were George I. Strobeck, claiming a judgment of \$41,320; W. A. Adams, claiming \$20,000; and W. E. McDonald with a \$12,000 claim. The petition alleged that the San Diego financier committed acts of bankruptcy, among them allowing the Pacific Portland Cement Company, a creditor to obtain a judgment of \$144,672, constituting a lien against his property.

HERE—THERE EVERYWHERE

The Master Plumbers' Association of Sonoma County has petitioned the county supervisors to pass a county ordinance providing for plumbing regulations and inspection outside incorporated districts.

Truscon Steel Co., Youngstown, O., announces the appointment of Clark P. Pond as vice-president, engineering and sales. Mr. Pond was formerly connected in a similar capacity with the David Lupton's Sons Co.

After more than a year's work, the Health Committee of the San Francisco Board of Supervisors has discarded a proposed new ordinance to regulate installation of gas appliance fixtures and named a new committee to draft another plan.

The Builders' Exchange of Newport Beach has elected the following officers to serve for the ensuing year: Charles E. Dunbar, Costa Mesa, president; Irving G. Gordon, Newport Beach, vice-president; Lester L. Isbell, president of the Newport Harbor Chamber of Commerce, secretary-treasurer; I. G. Gordon, Ross Hostetter, C. E. Dunn, George Headley, Ralph Viele, all of Newport Beach, directors.

Members of the Santa Rosa Builders' Exchange and interested citizens at a recent meeting outlined tentative plans for a united advertising campaign to stimulate building. The aid of the local newspapers will be enlisted in furthering the program.

The annual convention of the National American Wholesale Lumber Association, Inc., will be held at Atlantic City, April 15 and 16. Headquarters will be maintained at the Ambassador Hotel.

The quarterly meeting of the Associated Marble Manufacturers will be held at St. Louis, Mo., April 18. Headquarters will be maintained at the Hotel Statler.

Makin and Kennedy, material dealers, and the Melrose Building Materials Company of Oakland, have organized the Quality Concrete Company and will specialize in the marketing of ready-mixed concrete. Headquarters will be maintained in the Building Exchange Bldg., Oakland.

LEGISLATION AIMED TO REGULATE TRUCKS

A bill regulating the height, weight and length of trucks has been passed by the Indiana legislature and the signature of the governor is looked for because stringent limits on motor trucks were recommended by him in his message to the legislature. The bill provides that trucks shall be not more than 8 ft. wide and 12 ft. high. The length of a single vehicle is limited to 33 ft. and combination vehicles coupled together shall not be more than 40 ft. long. The axle weight on pneumatic tires shall not be more than 16,000 lb. and on solid tires 80 per cent of the weight on pneumatic tires. The bill, if signed, will become effective on January 1, 1932. It was bitterly fought by the Motor Truck Association of Indiana and by many industries.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone SUtter 1684).

- R-3725-F STRUCTURAL DRAFTSMAN, experienced on Class A buildings, for temporary work in connection with a remodeling job. Salary, \$250 per month. Location, San Francisco.
- R-3522-S ENGINEER, preferably civil graduate, 28-35 years old, for design of tanks, pipe lines, pressure vessels and some structures. This experience essential. Salary \$200-\$250 per month. Apply by letter. Location, San Francisco.
- R-3512-S FLOTATION OPERATOR, for a mill in Washington. Practical operator for steady position. Apply by letter with references.
- R-3521-S SHIFT OPERATOR for cyanide plant. Prefer young man with some training in metallurgy and willing to follow instructions. \$4.50 per day. Apply by letter. Location, Alameda County.
- R-3517-S MECHANICAL SPECIALIST, 28-35 years old, to deal with problems arising in connection with operation of pumps, compressors and other mechanical equipment of large industrial plant. Applicant should have had experience as draftsman and mechanic; technical education required but not necessarily a college graduate. Permanent opportunity. Salary depends on experience. Apply by letter. Location, S. F. Bay Region.
- W-2410-C-S (K-346) MINING ENGINEER with prospecting experience on gold, both placer and quartz. Capable man with about \$25,000 could make considerable money and operate on royalty basis in rich virgin territory now held by principal under concession from Peruvian Government. Healthy location. Apply by letter with references. Headquarters, Peru.
- W-119-ASSISTANT EDITOR, graduate, mechanical engineer with practical experience in steam, refrigeration, maintenance and plant engineering. Apply by letter. Salary \$2500 a year. Location, South.

LARGEST STRUCTURAL STEEL ORDER PLACED

The largest single order for structural steel ever placed has just been secured by the U. S. Steel Corporation, involving 125,000 tons to be used in the Metropolitan Square building group, popularly known as "Radio City," in New York. Metropolitan Square includes three blocks, each 206,000 sq. ft., fronting on Fifth Ave. While each block is to be improved separately, the ten different buildings have been planned as a group to secure the greatest possible advantage under the setback ordinance. The central unit is a 48-story office building containing 2,000,000 sq. ft. rentable floor area. It will be flanked by two 45-story buildings, a picture theatre to seat 4500, a vaudeville theatre to seat 6500 and an elliptical building 11 stories high and several ordinary office buildings. Work has scheduled to start in June on the two theatres and the low portion of the central unit.

The entire project is to be completed in 1932. Three architectural firms are associated on the job, which is estimated to cost \$250,000,000. They are Reinhard & Hofmeister; Corbett, Harrison & MacMurray; and Raymond Hood, Godley & Foulhoux. H. G. Balcomb is the structural engineer.

EMPLOYMENT STABILIZATION ACT REQUIRES FEDERAL CONSTRUCTION PLANNING SIX YEARS IN ADVANCE

The employment stabilization act of 1931 requires that the Federal construction agencies have their work constantly planned for six years ahead.

For this purpose there is established a board to be known as the Federal Employment Stabilization Board, and to be composed of the Secretary of the Treasury, the Secretary of Commerce, the Secretary of Agriculture, and the Secretary of Labor. It shall be the duty of the board to advise the President from time to time of the trend of employment and business activity and of the existence or approach of periods of business depression and unemployment in the United States or in any substantial portion thereof; to co-operate with the construction agencies in formulating methods of advance planning; to make progress reports; and to perform the other functions assigned to it by that act.

In advising the President the board shall take into consideration the volume, based upon value, of contracts awarded for construction work in the United States, or in any substantial portion thereof, during any three-month period in comparison with the corresponding three-month period of three previous calendar years.

Whenever, upon recommendation of the board, the President finds that there exists, or that within the six months next following there is likely to exist, in the United States or any substantial portion thereof a period of business depression and unemployment, he is requested to transmit to the Congress by special message such supplemental estimates as he deems advisable for emergency appropriations.

Such emergency appropriations are authorized and shall be expended only—

- (a) For carrying out the provisions of the Federal highway act, as now or hereafter amended and supplemented;
 - (b) For the preservation and maintenance of existing river and harbor works and for the prosecution of such projects heretofore and hereafter authorized as may be most desirable in the interest of commerce and navigation;
 - (c) For prosecuting flood-control projects heretofore or hereafter authorized;
- visions of the public buildings act, ap-

proved May 25, 1926, as now or here-

(d) For carrying into effect the proffer amended and supplemented, in respect of public buildings within and without the District of Columbia; and (e) For prosecuting such other construction as may now or hereafter be authorized by the Congress and which is or may be included in the six-year advance plans, as hereinafter provided.

Acceleration of Emergency Construction

For the purpose of aiding in the prevention of unemployment during periods of business depression and permitting the Government to avail itself of opportunity for speedy, efficient, and economical construction during such periods the President may direct the construction agencies to accelerate during such periods, to such extent as is deemed practicable, the prosecution of all authorized construction within their control.

Advance Planning

It is declared to be the policy of Congress to arrange the construction of public works so far as practicable in such manner as will assist in the stabilization of industry and employment through the proper timing of such construction, and that to further this object there shall be advance planning, including preparation of detailed construction plans, of public works by the construction agencies and the board.

Each head of a department or independent establishment having jurisdiction over one or more construction agencies shall direct each such construction agency to prepare a six-year advance plan with estimates showing projects allotted to each year. Such estimates shall show separately the estimated cost of land, the estimated cost of new construction, and the estimated annual cost of operation and of repairs and alterations.

Such programs, plans, and estimates for the six-year period shall be submitted to the board and to the director of the bureau of the budget. The director of the bureau of the budget shall report to the President from time to time consolidated plans and estimates.

Each construction agency shall keep its six-year plan up to date by an annual revision of the plans and estimates for the unexpired years and by annually extending the plan and estimates for an additional year.

PRIVATE ARCHITECTS URGED FOR FEDERAL BUILDING UNITS

To hasten unemployment relief, the office of the Supervising Architect should cease its efforts to prepare all plans and specifications for Federal building projects and should confide this task to outside architects and engineers, declares a report transmitted by the American Engineering Council to Col. Arthur Woods, chairman of the President's Emergency Committee for Employment.

Red tape must be out if the Government's building program is to be swiftly carried out, according to the engineers, who urge condemnation instead of negotiation by the Attorney General in acquiring sites, and executive orders by the President to speed the co-operation of departments and bureaus.

The report was prepared by a com-

mittee of the American Society of Mechanical Engineers, headed by Ralph E. Flanders of Springfield, Vt., in response to an urgent request by Col. Woods for aid from the engineering profession. The engineers' recommendations follow:

"The Government should immediately proceed to employ well established and thoroughly competent architectural and engineering firms best qualified to do the work for the various building construction projects that have been authorized.

"The Office of the Supervising Architect should divest itself of its many plans to prepare all plans and specifications for the projects, and become, as its name implies, more supervisory and less detailed in its functions. The vast amount of Government work au-

thorized and under contemplation warrants a less detailed policy on the part of the Supervising Architect's Office and the employment of architectural and engineering firms.

"The Supervising Architect's Office should definitely address itself to a form of engineering supervision which will enable employed architectural and engineering concerns to conduct swiftly the preparation of drawings and specifications for the various projects, which will thus be assigned, without reference to the legal and administrative restrictions that must necessarily surround Government work. To that end the reorganization within the Supervising Architect's Office would have special reference to directed acceleration.

"The revision of the supervisory organization should include clearance of all possible causes of dispute in the Comptroller's Office, at the same time obtain from the Comptroller's Office in advance rulings in the light of the emergent situation which will clear authorized Government projects in that direction, and insure their not being hampered in their actual execution by contractors that may be engaged in their performance.

"The issuance of suitable executive orders should be obtained which will strengthen the Supervising Architect's Office in obtaining information from departments and bureaus in which Government projects originate. The importance of this is clear when it is realized that no plans and specifications can be drawn unless the authorities designate their requirements clearly and are compelled to make decisions as the logical and swift development of the various projects in the employed architects' and engineers' offices requires.

"Direct orders of authority from the President should be issued to the various departments and bureaus and other agencies that have to do with the structures to be built that, in the failure of these agencies to make early and prompt decisions, such decision will be made by the Supervising Architect's Office, thus avoiding delays of decision which would otherwise originate outside of the Supervising Architect's Office.

"The Attorney General's Office should exercise its right of condemnation of sites under contemplation on which building projects have been authorized, instead of employing the slower process of negotiation which has heretofore hindered and continues to hinder the Government in the swift completion of its building projects. Such condemnation proceedings are the right of the Attorney General and should be fully resorted to in the present emergency."

A nationwide investigation was made by the local sections of the American Society of Mechanical Engineers and of the American Institute of Electrical Engineers "to ascertain, first, the ways and means adopted by employers throughout the country to stabilize employment during this period, and second, what they have done to stabilize employment permanently."

The data obtained has been turned over to the American Engineering Council for the use of the President's Emergency Committee. It reveals that the Committee's program has won widespread support in all sections of the country.

Paul J. Ost, city electrical engineer, has been directed by the Supervisors Public Utilities Committee to study the feasibility of replacing the city's gasoline-driven buses and certain of the municipal street car routes by electrically operated buses. The plan, which entails trolley-equipped vehicles, would reduce operation cost, Ost said.

CONDITIONS EXISTING IN RUSSIAN LUMBER CAMPS ARE DESCRIBED BY NOTED ECONOMIST

Carl Bahr, economist of the National Lumber Manufacturers' Association, in a radio address last month told of some of the conditions in north Russian lumber camps, disclosed to him during a three-month trip in Russian border countries by escaped "convicts" and by those whose business it is to keep in touch with what is going on in Russia. Personal interviews, with sworn statements, were secured by Mr. Bahr. His radio talk is published herewith.—Editor.

"The center of the lumber and pulpwood industries is at Archangel on the White Sea. There is as much difference between it and Moscow, the capital, as there is between Sitka, Alaska and New York City. The hinterland of north Russia is a vast region of forests, rivers, lakes and glaciers, cold and dark in winter and hot, swampy and infested with mosquitoes in summer. It is penetrated by one thin railway line with infrequent train service. The only foreign visitors are the select few thoroughly tutored by the Soviet government whose business relations with Russia demands their presence.

"A prisoner, escaping with a forged passport from Archangel, Volodga, a distance of 373 miles, saw at every station where logging operations were conducted, convict camps surrounded by barbed wire and guarded by armed watchmen.

Vast Number of Convicts

"The exact number of convicts used in north Russia has never been published, but it is probably run into the hundreds of thousands. The number of convicts is variously reported by the prisoners as from 150,000 to more than 1,000,000. While traveling to the north of Europe I was frequently told by well-informed people that it would be impossible to secure first-hand evidence. This is incorrect. There are far more escaped prisoners than is commonly supposed; they are usually quite willing to share their experiences, if assured that their names would be publicly used. They were afraid to speak openly of their experiences for fear of reprisals on their families left in Russia. But they hoped the United States, with its great power and standing, could exert influence to such an extent that conditions in the north of Russia would be improved.

"Throughout north Europe even greater than the hatred is the fear of Russia. Some people were afraid to talk of Russia at all; others who, in private, asked that the most careful precaution be taken not only to conceal the fact that information was secured from them, but even that they had talked about, or were interested in Russia. One man refused to leave his house in the evening for fear of being followed by Russian spies and came to see me at his noon mealtime only after being assured that even, if watched, no one would know he was talking to me. In other cases the men insisted on arriving at meeting places at different hours and leaving at different entrances. Some whom I had been assured could aid me, upon being questioned, plead complete ignorance. The fear of Russia is quite understandable. The escaped convicts have had demonstrations of what occurs to those who get into the bad graces of Soviet officials; the others are all residents of states bordering on Russia and almost only at its pleasure and can be destroyed at will.

"Crimes" of Exiles

"As to the prisoners themselves. One man was imprisoned as an anti-Eolshevik spy; another as a smuggler of a few highly prized sewing needles; a third, for having participated in a revolt; a fourth, as the spy of a foreign government; a fifth, for being a "kulak," that is, a peasant who is more prosperous than others in his community; a sixth, a business man sentenced for speculation; a seventh, for resisting the grain delivery system which required that farmers turn over to the government a certain portion of their crop; an eighth, as an American spy; a ninth, for a crime the nature of which was never disclosed; the prisoner, a tenth, as an influential person unsympathetic with the existing regime; an eleventh, for being in communication with relatives who had taken part in revolts against the Soviet government; a twelfth, for distributing religious literature; another, as a hostage.

"A ship's captain returning from Russia described a dinner in a prison camp: 'An enormous cauldron was slung between two posts. In this was a kind of ruel consisting of some indefinable meat and water. All the captives were provided with a spoon and a tin basin each, and they fetched their rations in turn. The sight was revolting. It was pitiful to see these poor prisoners, tired out and tortured by heat and vermin. They were indiscriminately mixed, both male and female, and were of all ages. Some devoured their food with the avidity of starving wolves; others sat staring into space. Some wept and looked as if death would be their only relief. We met an old man who could not have been less than 80 years old, and he walked around in circles, shedding bitter tears.

"There was general agreement among all the prisoners that by far the worse spot in north Russia is on the Solovetsky Islands. No more striking picture of conditions can be drawn than to repeat the statement of one prisoner who asserts that in the winter of 1929-30, about 13,000 prisoners out of 26,000 on the island died from typhus."

In conclusion Mr. Bahr said: "There is obviously some little truth in the statement that what goes on in that country is their business, not ours; we may sympathize with the Russian people, but officially there is nothing that we can do about it. But we have a legitimate interest in what goes on in Russia if the results of their systems extends its effects to our markets. If Russia sends convicts to our forests and sends them to the United States we surely have the right to ask the government for protection against the products of slave labor. We have the right to defend both our labor and our industry from the impossible competition of materials and machinery stolen from private owners and brought to our shores at a money cost scarcely greater than the charge for ocean freightage.

Forty Years' Precedents

"For at least 40 years our laws have provided protection against foreign goods produced by convicts. But technical difficulties have made their enforcement difficult and during the past year the Treasury Department was unable to keep Russian lumber and pulpwood out of the country. It has now adopted new regulations which, it hopes, will cure the difficulties previously encountered. Congress

has also taken up the question of amending the law so as to make effective enforcement possible. Its effort to prohibit the importation of slave-made goods should command the active support of every American citizen. Unfortunately it does not have such support. There has been and is considerable opposition to the effort to pass legislation which will effectively bar shipments of convict-made goods into the United States. This opposition comes, I believe, largely from those who do not fully realize the situation.

"Opponents of this legislation say that we now sell much more to Russia than it sells to us; that we should not destroy the opportunity of increasing our sales to Russia by interfering with Russian sales to the United States. They propose in effect to gain an export trade with Russia (of doubtful value because it is based largely on credit) by sacrificing one of the fundamental principles of our government—the freedom of labor. On this freedom of labor is based our general prosperity and high standards of living, our high wages, short working hours and reasonable working conditions. It takes little imagination to outline the future if our laborers are required to compete against the laborers whose stories you have just heard. Such competition is inevitable unless legislation necessary to bar from the American market the products of slave labor is promptly passed by Congress. The flood of imports has started; it is still small, but growing rapidly. Failure to protect our markets against such competition is, in effect, placing our economic future in the hands of Russia; it gives to Russia material assistance and support far more valuable than formal recognition of the Russian government, which was but a scanty withheld for the last 13 years."

STEELEX LATH SHIPMENTS INCREASE

The Soule Steel Company has just received a report showing a large increase in the shipment of Steeltex lath by the National Steel Fabric Company for whom the Soule people are distributors in this territory.

The report shows that January, 1931 shipments of Steeltex were 83.9 per cent greater than the corresponding month of 1930. It is further reported that February, 1931, shipments show a further increase of 20 per cent over January of this year.

The National Steel Fabric Company give credit for this remarkable showing mainly to their progressive sales efforts and their faith in the principle that there is plenty of business for those who work for it.

Reports of new orders for fabricated structural steel for the week ending March 7, 1931, were received from 101 establishments, whose capacity represented 47.1 per cent of the total capacity of all plants in the United States. The bookings for these establishments amounted to 34,120 tons, representing 78.4 per cent of the total capacity of the reporting establishments. Reports of shipments of fabricated structural steel for the same week were received from 39 establishments, whose capacity represented 47.6 per cent of the total capacity of all plants in the United States. The shipments reported by these establishments amounted to 16,361 tons, representing 37.7 per cent of the total capacity of the reporting establishments.

Frank C. Reed, general sales manager of the Westinghouse Electric Elevator Company, has been elected vice-president of that company to fill the vacancy caused through the resignation of R. I. Phillips.

MARCH BUILDING IN S. F. \$2,090,129

Building operations undertaken in San Francisco during the month of March, 1931, involved an expenditure of \$2,090,129, according to figures compiled by the Bureau of Building Inspection, Department of Public Works. During the month 556 permits were issued; of these 229 were for new structures involving an expenditure of \$1,874,071. The balance of the operations called for an expenditure of \$216,058 and covered alterations, additions and repairs to standing buildings. Public building construction involved an expenditure of \$106,233.

During the month of March 1930, figures of the department show a total of 584 permits issued for construction involving \$3,502,512. The cost figure, however, included \$1,237,338 for public building construction making the private construction expenditure \$2,214,924.

For the first three months of this year, records of the building department, show a total of 1525 building permits issued for improvements involving an expenditure of \$5,633,783 as compared with 1689 permits for the corresponding period in 1930 when the money expenditure registered \$6,078,357.

The following is a segregated listing of the March, 1931, activities as compiled by the Bureau of Public Inspection:

A	2	\$206,500
B	3	109,240
C	10	43,875
Frames	203	855,223
Alterations	327	216,058
Public Bldgs.	1	550,000
Hartor Bldgs.		
State Bldg.	1	20,926
U. S. Govt. Bldgs. .	9	85,297

In January of this year, 486 permits were issued for projects costing \$1,831,083 and in February, 501 permits for projects costing \$1,712,571.

SHORT HOURS, HIGH WAGES, CALLED VITAL

Not only must hours be reduced to absorb the unemployed by-products of machine production, but "real" wages must materially be increased if prosperity is to return to America, in the belief of John P. Frey, labor economist and head of the metal trades department of the A. F. of L.

Frey, in an interview, questioned the theory that machines are making the masses wealthy. He showed that while machinery is increasing the nation's wealth in terms of billions, the buying power of the workers has been increased in terms of millions. He held that the American worker today receives a much smaller proportion of the wealth they help produce than they did in 1849. He adds that the gap between wealth produced and the workers' share was widened "much more rapidly" in 1923 and 1929 than in previous years.

"Industry is staggering, an army of unemployed is clamoring for work because industry and commerce, particularly since the war, have been paying wages that are unsound," Frey declared. "The wage rates have been altogether too low."

"Unless industry and commerce desire to strangle themselves, real wages must increase with industry's capacity to produce. Dividends and interest cannot be paid unless wages are materially increased."

Emil Bou, son of Prosper Bou, San Bruno general contractor, will walk or ride the street cars for the next six months, due to a sentence imposed by Police Judge Rudolph Rapsay. Bou had his operator's license suspended for driving 52 miles an hour through the business district.

Architects Planning "Architectural Clinic"

An "architectural clinic" for Santa Barbara is being planned by members of the Santa Barbara Chapter, American Institute of Architects. Representatives of building and loan associations are expected to co-operate to further proposal.

The purpose of the "clinic" would be to provide architectural advice and assistance for home builders who have not the funds with which to purchase complete plans and specifications.

INSIDE ELECTRIC WORKERS ORGANIZE

The State Association of Inside Electrical Workers of California was organized at a recent meeting in Oakland of electrical workers from every section of the state.

The object of the organization is to be a medium through which the problems of the inside electrical workers of California may be discussed and solutions suggested whereby the most benefit may be derived. Conventions are to be held annually.

One of the most important actions taken by the new organization was the drafting of a resolution, later presented to and approved by the annual convention of the State Building Trades Council of California, requesting that body to present to the California Legislature a bill providing the necessary means for the efficient enforcement of the provisions and requirements of the electrical safety orders of the Industrial Accident Commission of California, especially in those districts where regular city or county electrical inspection bureaus are not maintained.

Officers of the association are: Charles A. O'Hanlon, of Sacramento; secretary-treasurer, Albert E. Cohn of San Francisco; executive committee, E. B. Eschleman of Oakland, Henry J. Tornwall of Eureka, Walter Strake of Santa Rosa, W. M. Bertman of Santa Barbara, W. G. Casey, of Richmond.

CAMPBELL WINDOW SHIPMENT ARRIVES

Fifteen carloads of steel windows have just arrived in San Francisco from New York for the Campbell Industrial Window Company, according to an announcement made yesterday by Alvin M. Karstensen, Pacific Coast manager, for the concern.

Fire Protection Products Company of 1101 Sixteenth Street, San Francisco, is the Campbell Company representative for California, Nevada and Nevada. The Company will specialize in the field of industrial windows and doors including casement windows, horizontally pivoted industrial windows, projected windows of the commercial, architectural and office type, utility windows, and continuous windows and doors. These windows have ventilators which are protected by weather stripping which shuts out wind, rain and snow, and excludes dust, dirt, smoke and soot, and reduces the cost of heating a building. This feature is practically the only improvement made in this class of window in the last 20 years and eliminates the only objection to this type of window, the manufacturer declares.

Campbell Windows have another special feature which can be included—Vitaglass, which creates a healthful atmosphere by allowing the vital, health giving, ultra violet rays of sunlight to pass through, these being the rays which are barred by ordinary glass.

HOUSE INSULATION FACTS IN BOOKLET

The appointment of a sub-committee to prepare a booklet which acquaint builders, as well as present and prospective home owners, with the facts in regard to insulating a house, is announced by Secretary of Commerce Robert C. Lamm, who is chairman of the National Committee on Wood Utilization. The preparation of this publication is one of the special projects of the Committee.

One of the primary purposes of the new booklet is to give co-operative projects between government and industry, in order to inform the nontechnical consumer of the advantages and economies of house insulation. The discomforts of excess heat in summer and cold in winter are known to everyone. The booklet will indicate how these conditions may be remedied, and, therefore, should be of special interest to every home dweller. These factors and many others will be studied in detail by the subcommittee, and the results of their findings incorporated in the booklet.

The National Committee on Wood Utilization has for its object the furthering of efficient wood-using practices. The preparation of the insulation booklet is a logical step in this direction, the committee says, because the booklet will bring the materials now on the market are made from wood. The publication will be prepared from an impartial viewpoint, treating practically all types of insulating materials.

Members of the subcommittee sponsoring this project and the organizations they represent are as follows: LeRoy E. Kern, American Institute of Architects, chairman; M. C. Betts, American Society of Agricultural Engineers; Wm. F. Chew, National Association of Builders' Exchanges; W. H. Ham, Better Homes in America; E. J. Harding, Associated General Contractors of America, Inc.; C. H. Osborne, Building Officials' Conference; Wm. S. Quinter, U. S. League of Building and Loan Assns.; Leonar F. Reunauer, National Association of Real Estate Boards; F. B. Bowley, American Society of Heating and Ventilating Engineers; W. A. Stetson, consulting engineer; James S. Taylor, Bureau of Standards; S. Percy Thompson, National Retail Lumber Dealer Association.

BUILDING-LOAN BILL IS PASSED

The building loan bill by Senato J. M. Inman of Sacramento, strengthening the building and loan laws of the state, designed to give the Building and Loan Commissioner more power in regulation, has been passed by the Legislature without a dissenting vote. The bill was amended more than 300 times in an effort to make it satisfactory to companies and the state.

A similar bill, by Milton M. Golde of Hollywood, is in the Assembly Building and Loan Committee.

Both the Inman and Golde bills were prompted by the \$3,000,000 Bess emeyer defalcation in Los Angeles. Chairman Woods of the President's Emergency Committee announced on March 30, that nearly \$1,000,000, worth of contracts for public work had been let since December 1, 1931. The total, including \$4,550,537 of contracts let last week, was \$97,692,730. The projects include public and semi-public work, post offices and other federal buildings, state and municipal schools, colleges, hospitals, and other similar work. Reports last week covered 264 projects in 33 states and the District of Columbia.

Building News Section

APARTMENTS

Contract Awarded.
APARTMENTS Cost, \$17,650
SAN JOSE, Suinta Clara Co., Cal.
 NE Santa Clara Ave. and Moreland Street.
 Two-story frame and stucco apartments (15 apts.)
 Owner—R. DeBaere, Berkeley.
 Architect—F. H. Stocombe, 62 York Drive, Oakland.
 Contractor—Harry Knight, 6532 Dover St., Oakland.

Sub-Contracts Awarded.
APARTMENTS Cost, \$45,000
REDWOOD CITY, San Mateo Co., Cal.
 23 Clinton Street.

Three-story and basement frame and stucco apartments (15 apts.)
 Owner—W. J. Bridgland, 569 Presidio Ave., San Francisco.
 Plans by Owner.
 Contractor—Daley Brothers, 1104 Vancouver Ave., Burlingame.

Plumbing and Heating—Morrison and Blair, 415 Villa, San Mateo.
 Painting—Doolittle & Wilson, 420 Arch St., Redwood City.
 Insulation—McCormick Ltr. Co., 1401 Army St., San Francisco.

Electric Work—Coast Electric Co., 952 Folsom St., San Francisco.
 As previously reported, lumber contract awarded to San Mateo Planing Mill, San Mateo; concrete to Redwood Materials Co., Redwood City; concrete labor to John Morey, San Mateo. Sub-bids are wanted on all other portions of the work.

Sub-Contracts Awarded.
APARTMENTS Cost, \$175,000
SAN FRANCISCO, N Jackson Street
 E Gough Street.

ix-story and basement Class C concrete apartments (26 apts.)
 Owner & Builder—E. Jose, 251 Kearny St., San Francisco.
 Architect—H. C. Baumann, 251 Kearny St., San Francisco.

Hardwood Flooring—Legal Floor Co., 620 Fourth St., San Francisco.
 Electric Work—Aetna Electric Co., 1337 Webster St., San Francisco.
 Tile Work—Malott & Peterson, 3221 20th St., San Francisco.

Painting—Herman Wachter, deYoung Bldg., San Francisco.
 Refrigeration—Holbrook, Merrill & Stetson, Inc., 665 6th St., S. F.

As previously reported, steel forms awarded to Concrete Engr. Co., 1280 dian St.; plastering to Marconi Insulating Co., 1737 Beach St.; ornamental plaster to Mqx Mindner, 450 15th St.; terra cotta to Western Clay Products Co., 1501 Harrison St.; brick work to Martin Nelson, 2347 Army St.; sheet metal to Morrison & Co., Duboce Ave.; heating to A. Harper, 9 1/2 St.; mill work to L. H. Birth, 15 1/2 St.; lumber to Loop Lumber Co., Central Basin; concrete to Aliflorra Concrete Co., 1632 Steiner St.; steel to McClintic-Marshall Co., 50 Bryant St.; reinforcing steel to C. Hauck Co., 280 San Bruno Ave.; electric work to Aetna Electric Co., 37 Webster St.; plumbing to J. Bbs & Son, 1706 Geary St.

Instruction to Start in One Week
APARTMENTS Cost, \$70,000
BERKELEY, Alameda Co., Cal. Vir-
 ginia and Oxford Sts.
 Three-story and basement reinforced concrete apartments.

Owner and Builder—Max Bakar, Alameda County Title Insurance Bldg., Oakland.
 Plans by Clay N. Burrell, American Trust Bldg., Oakland.

Contract Awarded.
APARTMENTS Cost, \$15,000
SAN FRANCISCO, SW 43rd Ave. and Geary St.

Two-story and basement frame and stucco apartments (4 apts.)
 Owner—Mrs. E. Petersen, 1625 Balboa Street.
 Architect—A. H. Larsen, 447 Sutter Street.

Contractor—Maas & Sauer, 336 Church St.
 Sub-contracts will be awarded within a few days.

Plans Being Prepared.
APARTMENTS Cost, \$60,000
SAN FRANCISCO, SE Beach and Fillmore Streets.

Three-story and basement frame and stucco apartment (nine 3-room and three 4-room apts.)

Owner and Builder—Viggo Rasmussen, 1900 Jefferson Street.
 Architect—R. R. Irvine, Call Bldg.
 Sub-bids will be taken in one week.

Sub-Bids Being Taken.
APARTMENTS Cost, \$40,000
SAN FRANCISCO, NW Union and Baker Streets.

Three-story and basement frame and stucco apartments (6 3-room and 3 2-room apts.)

Owner and Builder—Guido Moriconi, 2341 Franklin Street.
 Plans by Irvine & Ebbets, Call Bldg.

Contract Awarded.
APARTMENTS Cost, \$200,000
OAKLAND, Alameda Co., Cal. Lennox Ave. near Montecito St.

Six-story steel frame and brick Apts. (48 apts.)
 Owner—Withheld.
 Architect—Leonard Ford, 1435 Harrison St., Oakland.

Contractor—Fred Miller, Syndicate Bldg., Oakland.
 Construction will start shortly.

BONDS

LOS ANGELES, Cal.—Los Angeles High School and Elementary School Districts affirmed bond issues totaling \$12,720,000 on March 27, approx-

SKILSAW Portable Electric Hand Saws (4 models).

SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attachments.

SYNTRON Portable Electric Hammers (4 models, motorless).

MALL Flexible Shaft Machines (50 models).

Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric

Tools.

1248 Mission St. UNderhill
 San Francisco 7662
 SALES . SERVICE . RENTALS

mately 75 per cent of which will be expended for new construction work. The issue for the high school district amounts to \$6,320,000, and for the elementary district \$5,790,000. Proceeds will be used for the construction of new buildings, additions to existing buildings, equipment, pedestrian subways and school sites, and will be distributed over the school districts as follows: \$2,642,400 for the central area, providing \$301,000 for elementary schools, \$1,307,700 for junior high schools and \$533,700 for senior high schools, \$2,097,800 for the southern area, providing \$825,000 for elementary schools, \$667,600 for junior schools and \$665,200 for senior high schools; \$526,600 for the harbor area, providing \$75,000 for elementary schools, \$55,500 for junior high schools and \$392,800 for senior high schools; \$707,700 for the San Fernando Valley, providing \$474,000 for elementary schools and \$233,700 for high schools; \$1,715,700 for the northern area, providing \$300,000 for elementary schools, \$1,250,000 for junior high schools and \$121,700 for senior high schools; \$1,128,400 for the eastern area, providing \$474,000 for elementary schools, \$521,800 for junior high schools and \$132,600 for senior high schools; \$1,901,400 for the western area, providing \$324,000 for elementary schools, \$725,000 for junior high schools and \$852,400 for senior high schools. In addition to the above allocations, \$500,000 will be spent on retaining walls, fences, etc., and \$500,000 for pedestrian tunnels, \$1,000,000 will be set aside for additions to buildings, lands and improvements not entirely segregated.

TUCSON, Ariz.—Tucson School District has called an election for April 17 at which time it is proposed to vote bonds in the sum of \$200,000 for the construction of additions to and remodeling three school buildings. The district proposes remodeling the Roskrue School and adding two rooms each to the Ochoa and Mission View Schools.

MARYSVILLE, Yuba Co., Cal.—Linda School District defeats proposal to issue bonds of \$7,500 to finance erection of 2-classroom addition to the present school. This is the second election that has failed.

SACRAMENTO, Cal.—October 10 is the date set by the Sacramento Board of Education to vote bonds of \$1,145,000 to finance erection of three new junior high schools.

CHURCHES

Plans Completed,
CHURCH Cost, \$40,000
SAN PABLO, Contra Costa Co., Cal.
 Church and Market Streets.

One-story reinforced concrete church (Mission style) (tile roof) (to seat 350).

Owner—St. Paul's Catholic Church
 Rev. Elysta Tozzi, San Pablo.
 Architect—John Foley, 770 Fifth Ave., San Francisco.

Contractor—S. Rasori, Call Building, San Francisco.

Construction will start in one week. The site of the new church is near the present St. Paul's church and upon its completion the old church will be placed in repair and used for a hall.

Plans Being Completed.
CHURCH Cost, \$20,000
SACRAMENTO, Sacramento Co., Cal
 SW Thirty-ninth St. and Fourth
 Ave. (72x125 feet).
 One-story reinforced concrete and
 stucco church (seat 250; tile roof)
 Owner—1st English Lutheran Church,
 Sacramento.
 Architect—Wm. E. Coffman, Forum
 Bldg., Sacramento.
 Plans will be ready for bids in about
 two weeks.

Contract Awarded.
CHURCH Cost, \$40,000
SAN FRANCISCO. Bush Street near
 Divisadero Street.
 One-story frame church.
 Owner—West Side Christian Church.
 Architect—Bertz, Winter and Maury,
 210 Post St., San Francisco.
 Contractor—Jacks & Irvine, 74 New
 Montgomery St., San Francisco.

Sub-Contracts Awarded
CHURCH Cont. price, \$55,500
HITTSBURG, Contra Costa Co., Cal.
 NW Black Diamond and W Eighth
 Streets.

Two-story reinforced concrete church
 with steel roof trusses (120x42 ft.)
 Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.,
 San Francisco, a corp. Sole (St. St.
 Peter Martyr Parish), Rev. Louis A.
 Nasselli, rector.
 Architect—Arnold Constable, 580 Mar-
 ket St., San Francisco.

Contractor—Larsen & Larsen, Russ
 Bldg., San Francisco.
 Will have full basement for Parish
 Hall and auditorium with seats for
 700. Will have stucco finish, tile roof
 and be of Italian Romanesque style
 of architecture.

Reinforcing Steel, Sash and Forma-
 concrete Steel Co., 1750 Army St.,
 San Francisco.
 Plastering—William Makin, 1048 Ex-
 celsior, Oakland.

Structural Steel—Judson Pacific Co.,
 609 Mission St., San Francisco.
 Rough Lumber—Redwood Mfg. Co.,
 Hohart Bldg., San Francisco.

Millwork—Lannom Bros., 5th and
 Magnolia, Oakland.
 Sheet Metal—Martinez Sheet Metal.
 Tile and Composition Roofing—Pacific
 Tile Roofing, 666 Edinburgh, San
 Francisco.

Ornamental Iron—Monarch Iron
 Works, 262 7th St., San Francisco.
 Glass—W. P. Fuller & Co., 301 Mis-
 sion St., San Francisco.

Linoleum and Linotile—Van Fleet-
 Freear Co., 557 Howard St., San
 Francisco.
 Painting—Raphael Co., 270 Tehama
 St., San Francisco.

Electric—Spott Electric Co., 2095
 Broadway, Oakland.
 Tile Floors—Malott & Petersen, 3221
 20th St., San Francisco.

Heating Contract—Thomas J. Ken-
 nedy, Martinez.
 Plumbing Contract—Freitas Plumbing
 Co., 1917 E. 14th St., Oakland.

Plans Being Completed.
CHURCH Cost, \$25,000
NAPA, Napa Co., Cal. SE Third and
 Pachett Streets.
 Reinforced concrete church.
 Owner—Episcopal Church, Napa.
 Architect—C. Leroy Hunt, Napa.
 Bids will be taken in two or three
 weeks.
 W. C. Keig, Napa, is chairman of
 the building committee.

Specifications Being Written.
PLUMBING, ETC. Cost, \$3—
SAN FRANCISCO. Funston Avenue
 and Judah St. (St. Anne's Church)
 Plumbing, heating and ventilating for
 church.
 Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.

Architect—Shea & Shea 454 Montgom-
 ery Street.
 Bids will be called for in about ten
 days.

Contract Awarded.
CHURCH Cost, \$106,000
SEATTLE, Wash. First Avenue NW
 and West 30th St.
 Fireproof church (Romanesque type,
 seating 650; face brick and terra
 cotta exterior).

Owner—St. John's Parish Church.
 Architect—A. H. Albertson, Northern
 Life Tower, Seattle.
 Contractor—Warrack Const. Co., Mc-
 Dowall Bldg., Seattle.
 Sub-contract awards include: Terra
 cotta, Gladding, McBean & Co.; face
 brick Washington Brick, Lime & Sew-
 er Pipe Co.; structural steel, Wallace
 Bridge & Structural Steel Co.; mill-
 work, Guarantee Millwork Co.; plas-
 tering, Gust Lauch & Sons, and as-
 phalt tile Tourtelotte-Pradley, Inc.

Contract Awarded.
CHURCH Cont. Price, \$136,000
SAN FRANCISCO. Funston Ave. and
 Judah St. (120x245-ft.)
 Class A reinforced concrete church (2-
 000 seating capacity).

Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.
 Architect—Shea and Shea, 454 Mont-
 gomery Street.
 Structural Engineer—W. Adrian, 417
 Market Street.
 Contractor—S. Rasori, Call Bldg.

As previously reported, structural
 steel awarded to McClintic-Marshall
 Co., 2050 Bryant St.

**FACTORIES AND WARE-
 HOUSES**

Plan Being Figured—Bids Close April
 7, 12 Noon.

BAKERY Cost, \$—
SAN FRANCISCO. Block bet. How-
 ard, Folsom 13th and 14th Sts.
 One-story brick bakery.
 Owner—Peerless Bakery, 73 Erie St.,
 San Francisco.
 Architect—E. Neumarkel, 544 Market
 St., San Francisco.

Bids are being received by archi-
 tect from a selected list of contrac-
 tors.

Bids Opened
SHED Cost, \$125,000
SAN FRANCISCO. Pier No. 155
 Shed and bulkhead building (150x300
 ft.; steel frame construction with
 concrete walls).
 Owner—State Board of Harbor Com-
 missioners.

Engineer—Frank White, Ferry Bldg.,
 San Francisco.
 Following is a complete list of bids
 received:

E. T. Lesure, 87 Ross Circle, Oak-
 land \$101,480
 Barrett & Hilp, San Francisco 102,849
 F. J. Reilly, San Francisco 105,422
 Monson Bros., San Francisco 105,960
 MacDonald & Kahn, S. F. 106,883
 Schuler & McDonald, Oakland 107,371
 David Nordstrom, Oakland 107,980
 F. C. Amoroso & Son, S. F. 109,800
 A. Nelson, San Francisco 111,000
 K. E. Parker Co., S. F. 111,000
 Healty Tibbitts Con. Co., S. F. 113,000
 DeLuca & Sons, S. F. 119,965
 Bids held under advisement.

SOUTH GATE, Los Angeles Co.,
 Cal.—A large eastern manufacturing
 company, understood on reliable au-
 thority to be the General Motors Cor-
 poration, has purchased a 70-acre
 tract of land at the northeast corner
 of Firestone and Atlantic Bldgs.,
 South Gate, as a site for a manu-
 facturing plant to cost about \$10,000,
 000. Project will reach the construc-
 tion stage about August 1.

Contract Awarded.
PLANNING MILL Cost, \$30
BERKELEY, Alameda Co., Cal. 10
 Parker Street.
 One-story frame planing mill.
 Owner—Sheehan & Ballard, 1010 Par-
 er St., Berkeley.
 Architect—Not Given.
 Contractor—J. Dawson, 1507 Linco-
 St., Berkeley.

Plans Being Figured—Bids Close Ap-
 ril 10th.
FREIGHT SHED ETC. Cost, \$—
RENO, Nevada, Lake Street.
 Freight shed, 268x40-ft., with load-
 platform, 380x16-feet with at-
 "umbrella roof," office bldg., 7
 42-ft.
 Owner—Southern Pacific R. R., C.
 45 Market St., San Francisco.
 Plans by Eng. Dept. of Owners.

Sub-Contracts Awarded.
SERVICE BLDGS. Cost, \$40,0
REDWOOD CITY, San Mateo Co. C
 Ground of service bldgs. (wood fram-
 and tile walls).

Owner—Pacific Gas & Electric Co., 2
 Market St., San Francisco.
 Plans by Eng. Dept. of Owner.

Contractor—Clinton - Stephenson Co
 structure Co., Monadnock Buildin-
 San Francisco.

Reinforcing Steel—Pacific Coast Ste-
 Co., 215 Market St., San Francis-
 Concrete Materials—Redwood Mat-
 riels Co.

Cement—Pacific Portland Cement C-
 111 Sutter St., San Francisco.

Miscellaneous Iron—Michel & Pfeif-
 Iron Works, Harrison and Ten-
 Sts., San Francisco.

Steel Sash—Sole Steel Co., Rial
 Bldg., San Francisco.

Hollow Tile and Masonry—Sherr-
 Bros., Oakland.

Fill—F. J. Towers, San Carlos.
 Lumber—McCallum Lumber Co., 7
 Bryant St., San Francisco.

Group includes warehouse, garage
 service departments, superintendent
 offices, etc.

Contract Awarded.
POULTRY BLDG. Cost, \$75,0
SACRAMENTO, Sacramento Co., C
 State Fair grounds.
 One-story brick poultry building.
 Owner—State of California.
 Architect—George B. McDougall, Sta-
 Architect, Public Works Bldg
 Sacramento.

General Work
 Yoho & Dauger, 3419 4th Ave., Sacra-
 mento, 347,743.

Plumbing and electrical work bi-
 held under advisement. Complete
 list of bids published March 25th.

Plans Being Figured—Bids Close Ap-
 ril 13th, 10 A. M.

SHED Cost, \$—
TURLOCK, Stanislaus Co., Calif.
 One-story frame freight shed.
 Owner—Tidewater Southern R. R. Co
 Mills Bldg., San Francisco.

Plans by Eng. Dept. of Owner (M-
 Smitten), Mills Bldg., San Fran-
 cisco.

Sub-Contracts Awarded.
SHED Cost, \$10,0
SAN FRANCISCO. Bryant St. be-
 4th and 5th Sts.
 Owner and Builder—Larsen and Lar-
 sen, Russ Bldg.

Architect—Kent & Haas, 525 Marke-
 Street.

Steel Sash—Michel & Pfeiffer Iron W-
 Harrison and 10th Sts.

Lumber—Pope & Talbot, Russ Bldg.
 Roofing—J. W. Bender Roofing Co
 18th and Bryant Sts.

Glass—W. P. Fuller Co., 301 Missio-
 Street.

Mill Work—Pacific Mfg. Co, Monad-
 nock Bldg.
 Hardware—E. M. Hundley, 662 Mis-
 sion Street.

Stairs—E. D. Philbrick Co., 41 Sher-
 idan Street.

Sub-Contracts Awarded.
LIVESTOCK BLDG.

Contract Price, \$97,500
SACRAMENTO, Sacramento Co., Cal.
State Fair Grounds.

One-story brick livestock building.
Owner—State of California.
Architect—Geo. B. McDougall, State
Architect, State Office Bldg., Sacra-
mento.

Contractor—F. L. Hansen, 282 7th St.,
San Francisco.
Concrete—Carl Fiedler, 2631 30th St.,
Sacramento.

Lumber—Diamond Match Co., Chic.
Reinforcing Steel—Truscon Steel Co.,
Call Bldg., San Francisco.

As previously reported, structural steel
deal awarded to Judson Pacific Co.,
39 Mission St., San Francisco; plumbing
and heating to Carpenter & Men-
denhall, Sacramento; electric work to
E. E. Turner Co., 2008 35th St., Sacra-
mento.

GRIDLEY, Butte Co., Cal.—Walter
Jansen and Son of Lincoln, Calif.,
purchasers of the Gridley Rice and
Feed Mill plant at Virginia and Mag-
nolia Sts., will raze a unit of the plant
and rebuild that portion with a brick
office building and a loading platform.
Additional equipment will also be in-
stalled in the mill.

**GARAGES AND SERVICE
STATIONS**

Sub-Contracts Awarded.
SALES BLDG. Cont. Price, \$53,915
SAN FRANCISCO. Mission Street nr.
Ney Street.

One- and two-story steel frame and
reinforced concrete auto sales and
service building.
Owner—W. E. Street, 251 Magellan
Street.

Architect—Irvine & Ebbets, Cal Bldg.
Contractor—William Spivock, Hobart
Building.

Slate Flooring—Union Plagstone Co.,
1635 El Camino Real, San Mateo.
Roofing—Alta Roofing Co., 976 Indi-
ana Street.

Slats—Atlas Steelbuilding Co., 12 En-
terprise St.

Ornamental Iron—Monarch Iron W'ks,
262 Seventh Street.

Reinforcing Steel—Concrete Eng. Co.,
1280 Indiana Street.

Concrete—Golden Gate Atlas Mate-
rials Co., 16th and Harrison Sts.
As previously reported, structural
steel awarded to Judson Pacific Co.,
39 Mission St.; lumber to J. H. Mc-
Callum, 748 Bryant St.; excavation to
Flombo Bros., 124 Parker St.

Sub-Bids Being Taken.
SERVICE STATION Cont. \$20,000
SAN FRANCISCO, S W Pacific Ave.
and Trenton Place.

Steel frame and concrete super ser-
vice station and garage.
Owner—S. & G. Gump Realty Co., 246
Post St., San Francisco.
Plans by Owner.

Contractor—Barrett & Hilp, 913 Har-
rison St., San Francisco.
Construction is starting today.

**GOVERNMENT WORK AND
SUPPLIES**

MARE ISLAND and San Diego, Cal.
—Until April 29, 11 A. M., under Spec.
No. 6460, bids will be received by the
Bureau of Yards and Docks, Navy De-
partment, Washington, D. C., for
floating derricks for the Navy Yard
at Mare Island and the Naval Operat-
ing Base at San Diego. The work con-
sists of two 25-ton floating steel der-
ricks of the stiff-leg type with bull
wheel having steel pontoons, steam
engines, and oil burning boilers; one
derrick for the Navy Yard, Mare Is-
land, and the other to the Naval Base
(Destroyer Base), San Diego. Specifi-
cations No. 6460 and accompanying

drawings may be obtained by forward-
ing a check or postal money order for
\$10, payable to the Chief of the Bu-
reau of Yards and Docks, to the Bu-
reau, to the Commandant, Navy Yard,
Mare Island, Calif., or to the Com-
mandant, Naval Operating Base, San
Diego, Calif. Attention is invited to
the fact that alternates providing sep-
arate bidding items will be called for
along the following:

(a) Revolving Cranes in lieu of derrick.

(b) Diesel Engines in lieu of oil
burning boilers and steam engine
drive.

(c) Diesel-electric drive in lieu of
oil burning boiler and steam engine
drive.

Further information obtainable from
the Commandant Navy Yard, Mare Is-
land, on deposit of \$10, returnable.

SACRAMENTO, Cal.—Until April 10,
3 P. M., under Order No. 3161, bids
will be received by U. S. Engineer
and deliver:

10,000 lbs. 60 per cent powder, suit-
able for blasting in water.
10,000 lbs. 40 per cent powder, suit-
able for blasting in water.

5000 ft. triple tape, waterproof,
blasting fuse.
1500 electric exploders No. 8 with
1/2 ft. lead wires.

1500 electric exploders No. 8 with 6
ft. lead wires.
4000 blasting caps for use with fuse
No. 8.

SAN RAFAEL, Marin Co., Calif.
Captain H. B. Nurse, recently ap-
pointed chief of construction in con-
nection with the proposed Army
Bombing Base to be constructed in
the Marin Meadows, will establish
headquarters in San Rafael on May 1.
He is now located at Fort Houston,
Texas, and will not be relieved of his
duties at that point until April 20.

HONOLULU, T. H.—(By Cable)—
Ames-Will, Ltd., Honolulu, at \$410,
266 submitted low bid March 26 under
Circular No. 7 to Department Quar-
termaster, Construction Division, Ft.
Shafer, T. H., for construction of two
200-men air corps barracks buildings
and two 100-men air corps barracks
buildings, together with roads and
utilities therefor at Fort Wheeler, T. H.

Bids referred to Washington for
approval. Complete tabulation of bids
received on this project will be pub-
lished shortly.

HAWTHORNE, Nevada—See "Reser-
voirs and Dams," this issue. Com-
plete bid listing on Cat Creek Dam in
connection with Hawthorne Naval
Ammunition Plant, T. G. Rowland,
Salt Lake City, Utah, as previously
reported low bidder at \$100,000.

WASHINGTON, D. C.—Bids are be-
ing received by Bureau of Supplies &
Accounts, Navy Department, Wash-
ington, D. C., to furnish and deliver
as noted in the following schedules,
further information being available
from the Navy Purchasing Officer, 100
Harrison St., San Francisco:

Bids Open April 14

Mare Island. 12 carbon packing
rings; sch. 5416.

Mare Island. 30 fabric springs with
frame; sch. 5429.

Western yards, steel wire cleaning
and casting brushes, and platers hand
brushes; sch. 5423.

Mare Island. 2200 lbs. bronze man-
ganese welding rods; sch. 5442.

Western yards, brushes: sash tool,
fitch, varnish, whitewash, lettering;
stencil, marking, flowing, glue, and
wax; sch. 5443.

Mare Island, 4 sets distant reading
tank gauges; sch. 5456.

Plans Being Figured—Bids Close Apr.

16th, 11 A. M.
OFFICERS QUARTERS Cost, \$90,000
SAN FRANCISCO, Presidio.

Fifteen double sets of non-commis-
sioned officers' quarters (each 2-
story and basement, brick con-
struction).

Owner—United States Government.
Plans by Quartermaster General's Of-
fice, Washington, D. C.

Bids on this project were scheduled to
be opened March 25, but action was
deferred upon orders from Wash-
ington, D. C., ordering cancellation of
the bid call pending passage of the
Bacon-Davis Act, which commands
payment of the prevailing wage scale
in the territory where the project is
undertaken. The bill is effective April
3. Prospective bidders published Mar.
2nd.

MARCH FIELD, Riverside Co., Cal.—
Bannister-Field, Inc., 4191 Goodwin
Ave., Los Angeles, submitted low bid
to the construction quartermaster at
March Field, at \$151,652, for the con-
struction of two warehouses, garage,
post exchange building, guard house
and fire station.

MARCH FIELD, Riverside Co., Cal.—
C. P. and W. P. Stover, 116 Alex-
ander Ave., Claremont, submitted low
bid at \$176,870 to the constructing
quartermaster at March Field for the
construction of 36 sets of non-commis-
sioned officers' quarters. Each
building will be a four-room structure,
of hollow concrete wall construction,
with stucco exteriors and the roofing.

Plans Being Figured—Bids Open May
6th.

POSTOFFICE Cost, \$1,500,000
OAKLAND, Alameda Co., Calif. 12th,
13th, Alice and Jackson Streets.
Superstructure of class A postoffice.
Owner—U. S. Government.
Plans by Supervising Architect,
Treasury Department, Washington,
D. C.

Contract for the foundation work on
this structure was awarded in Janu-
ary to George Peters of San Leand-
ro, at \$3,480. Bids for the super-
structure are now being taken. The
official call for bids will be published
in Daily Pacific Builder shortly.

MARIN COUNTY, Ca.—According
to word from Washington, D. C., Cap-
tain H. B. Nurse of the Quartermas-
ter's Corps, stationed at Fort San
Houston, Texas, has been ordered to
report to Marin County to take charge
of the construction in connection with
the bombing base to be established by
the Federal Government at Marin
Meadows. Captain Nurse will prob-
ably maintain his headquarters at San
Rafael.

OAHU, Hawaii.—Bids will be asked
in the immediate future by the Bu-
reau of Yards and Docks, Navy De-
partment, Washington, D. C., for the
development of the naval ammunition
depot at Oahu, Hawaii. The project
covers the construction of 131 build-
ings, approximately 11½ miles of rail-
roads, 14½ miles of paved roads and
electrical, telephone and water supply
systems. The following will enter
to the work: Concrete construction,
steel windows, metal doors, marble
and tile work, composition floors,
wood framing and finish, structural
steel, asbestos shingle, steel, insulated
and lightning protection and plumbing
and electrical work. The bureau ex-
pects to have the drawings and specifi-
cation available for distribution on
or about April 10, for the receipt of
bids approximately 60 days thereaf-
ter. Bidding data on this project will
be carried in these columns in the sub-
sequent issues at which time informa-
tion will be given as to the amount of
deposit required the date of opening
bids and the offices to which applica-

tion for the bidding data may be submitted.

Three Low Bidders.
QUARTERS Cost, \$—
FORT LEWIS, Washington.
 16 non-commissioned officers quarters, field officers quarters and 27 company officers quarters.
 Owner—U. S. Government.
 Plans by Constructing Quartermaster, Fort Lewis.

Three Low Bidders
H. J. and Dan Solie, 2326 Colby Ave., Everett, Wash., \$27,600.
McDonald Building Co., Tacoma, Wash., \$99,363.
W. T. Post, Tacoma, \$99,490.

Each home will contain four bedrooms, a living room, dining room and bath. Hot water heating systems will be installed. Half basements are specified and automatic gas systems for domestic water heating will be used.

HALLS AND SOCIETY BUILDINGS

Financing Arrangements Being Made.
ATHLETIC BLDG. Cost, \$100,000
MODESTO, Stanislaus Co., Calif.
 Athletic and aquatic building.
 Owner—Withheld.
 Architect—G. N. Hilburn, Elks Bldg., Modesto.

Preparing Working Drawings.
MEMORIAL Cost Approx \$20,000
VACAVILLE, Solano Co., Cal.
 One - story and basement Veterans' Memorial Building.
 Owner—County of Solano.
 Architect—Kent & Haas, 525 Market St., San Francisco.
 Bids will be taken in about two weeks.

Contract Awarded.
REMODELING Cost, \$9000
MODESTO, Stanislaus Co., Cal. Tenth and H Streets.
 Remodel for lodge rooms and stores (tile store fronts, included).
 Owner—Odd Fellows Lodge Hall Assn. Private plans.
 Contractor—Geo. J. Ulrich Const. Co., Modesto.

HOSPITALS

Contract Awarded.
ALTERATIONS Cost, \$2000
SAN FRANCISCO, 3700 California St.
 Alterations to hospital.
 Owner—Hospital for Children & Training School for Nurses, 3700 California Street.
 Architect—W. H. Armitage, Call Bldg.
 Contractor—Polson Street Iron W'ks, 17th and Missouri Sts

Preliminary Plans Approved.
WARF, ETC. Cost, \$250,000
FRESNO, Fresno Co., Cal.
 Fireproof Children's Ward and Surgical Unit at County Hospital.
 Owner—County of Fresno.
 Architect—Swartz and Ryland, Brix Bldg., Fresno.

Tentative plans provide for segregated bids on the project, to be taken under the following divisions: General contract, brick work, plumbing and sheet metal, heating and ventilating, electrical work, roofing, plastering and lathing, mill work, floor covering, elevator, tile flooring and wainscoat, built-in equipment and fixtures and painting.

Preparing Working Drawings.
HOME Cost Approx, \$250,000
SAN FRANCISCO, University and Cambridge Streets.
 Two- and three-story reinforced concrete and brick Home For Aged.
 Owner—Lick Old Ladies Home.
 Architect—Alfred Coffey and Martin Rist, Phelan Bldg.

Plans will be ready for bids in about six weeks.

Plans Being Figured—Bids Close Apr. 30, 11 A. M.
ADDITION \$115,000 Appropriated
SAN FRANCISCO, Letterman General Hospital.

Three - story reinforced concrete addition to Ward No. F-1 and two-story reinf. concrete ward building (formerly Wards 10 and 11).
 Owner—United States Government.
 Architect—Constructing Quartermaster, Fort Mason.

Rubber floors, terrazzo floors, tile wainscoting, radio system, electric fixtures, nurses' call systems; all modern hardware, sterilization system, electric passenger elevator, modern hospital plumbing and considerable marble work.

SANTA ROSA, Sonoma Co., Cal.—
 County supervisors have tentatively agreed to provide \$100,000 out of the next tax levy and a similar amount the following year to provide funds for a new county hospital to replace the present structures, condemned by grand juries for several years past. Construction of a Class A structure with a capacity of 150 beds is contemplated.

Commissioned To Prepare Plans.
HOSPITAL Cost, \$140,000
RENO, Nevada. East of the present County Hospital Site.
 Class A Hospital (L-shape).
 Owner—County of Washoe, E. H. Beemer, county clerk.
 Architect—F. J. DeLongchamps, Gazette Bldg., Reno.

The structure will be L-shape and will have a capacity of about 50 beds. It is proposed to have construction started by June 1. An issue of \$33,000 in bonds will be sold by the county and the balance of the cost will come from the County Hospital tax levy.

Contracts Awarded.
QUARTERS Cost, \$—
SPADRA, Los Angeles Co., Cal. Pacific Colony Grounds.
 Two-story employees' quarters and 1-story concrete garage.
 Owner—State of California.
 Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, state architect, State Office Bldg., Sacramento.

The Employees' Quarters building is two stories with concrete walls and wood frame interior construction and tile roof. The total floor area is approximately 8600 square feet.
 The Garage is a building of 30 single car compartments with concrete walls and floor and composition roof. The area is approximately 6000 sq. ft.

General Work
L. A. Geisler, Long Beach, \$30,986.
Electric Work
R. R. Jones Elec. Co., Los Angeles, \$1,350.

Plumbing and Heating
Thomas Havery, Los Angeles, \$5,995.

Miscellaneous Iron Contract Awarded
KITCHEN, ETC. Cost, \$172,740
BERKELEY, Alameda Co., Cal.
 One-story reinforced concrete kitchen and commissary building and two-story reinforced concrete boys' and girls' dormitory.
 Owner—State of California.
 Architect—George B. McDougall, state architect, Public Works Building, Sacramento.

Contractor—Monson Bros., 475 6th St., San Francisco.
 Kitchen and dormitory building will have tile partitions, steel and wood roof construction and tile roof; total floor area 14,000 sq. ft.

Boys and girls' dormitory will have tile partitions, wood roof construction

and tile roof; total floor area 42,70 square feet.

Mis. Iron—E. Kloeres & Co., 477 Clemencia St., San Francisco.

Other awards reported March 7, 1936.

Preparing Working Drawings.
HEALTH CENTER Cost, \$800,00
SAN FRANCISCO, Polk and Groves Streets.

Four - story and basement reinforced concrete class A health center emergency hospital and office (granite facing).
 Owner—City and County of San Francisco.

Architect—S. Heiman, 57 Post St.
 Plans will be completed in about 6 days. The structure will be financed through the \$3,000,000 bond issue voted for health buildings throughout the city. The present two-story Emergency Hospital will be used in the construction of the new building and additional property will be purchased if the new structure.

HOTELS

Contract Awarded—Sub-Bids Being Taken
ALTERATIONS Cost, \$12,000
SAN FRANCISCO, No. 16 Turk St. (State Hotel).

Alterations to interior of hotel (the painting, plastering and new partition work).
 Owner—Arnold Hanse, 1375 Potrero Ave., San Francisco.

Plans by Grimes & Schoening, Bakhovich Bldg., San Mateo.
Contractor—Cahill Bros., 206 Sanson St., San Francisco.
 Construction will start April 1.

Plans Being Prepared.
ADDITION Cost approx, \$200,000
OAKLAND, Alameda Co., Cal. La Merritt District.
 Six-story steel frame and brick addition to hotel.
 Owner—Withheld.
 Architect—Leonard Ford, 1425 Harrison St., Oakland.
 Segregated bids will be taken in 6 days.

Contract Awarded
ALTERATIONS Cost, \$45,000
PLACERVILLE, El Dorado Co., Cal. 300 Main St.
 Alterations and additions to hotel.
 Owner—F. J. Raffetto, Placerville.
 Architect—Wm. E. Coffman, Forum Bldg., Sacramento.
 Contractor—A. J. Fisher, 800 25th St. Sacramento.

ICE AND COLD STORAGE PLANTS

Contracts Awarded.
EXTENSION Cost approx, \$90,000
SAN FRANCISCO, Channel between Pier No. 46 and 3rd St. bridge.

Extension to cold storage plant (refrigeration plant and install machinery and equipment).
 Owner—State Board of Harbor Commissioners.

Engineer—Frank White, Ferry Bldg.
 Following is a complete list of bids: Prop. No. 1. Making alterations to building and doing general contract work.

Prop. No. 2. Insulation contract.
 Prop. No. 3. Machinery and brin circulation system.
 Prop. No. 4. Elevator.

Proposition No. 1
C. Dudley DeVebiss, 369 Pine Street \$9,570.

Proposition No. 2
Cork Insulation Co., 354 Pine St., \$29,749.

Proposition No. 3
Carbondale Machinery Co., 1931 South Broadway, Los Angeles, \$28,073.
Proposition No. 4 (elevators) held under advisement.

Upon sale of the bonds to finance his work, contracts will be officially awarded as noted above.

POWER PLANTS

PASADENA, Los Angeles Co., Cal.
Illuske - Chalmers Manufacturing Co., 17 Rowan Bldg., Los Angeles, and **Whitaker**, awarded contract by city rectors at \$397,900 for the construction and installation of a 25,000-kw. steam turbine generator unit at the power plant of the City of Pasadena, 1 Glenasm St. and Raymond Ave.

SAN FRANCISCO—General Electric Co., Rialto Bldg., awarded contract by City Purchasing Agent, under Proposal No. 969, to furnish and deliver automatic starting compensators for use with Department of Public Works cycle motor, 11th and Bryant Sts., (thru 18 days, as follows:

Item No. 1. 1 Type CR 7051-J3 General Electric automatic starting compensator for use with General Electric 7 1/2 H. P., 230-V, 2 phase 60 cycle motor, with thermal overload relays, under -revoltage protection, PB control with definite time limit acceleration. Price each, \$95.25.
 Item No. 2. 7 Type CR 7051-J3 General Electric automatic starting compensators for use with General Electric 20 H. P., 230-V, 2 phase 60 cycle motor, with thermal overload relays, under-voltage protection, PB control thru definite time acceleration. Price each, \$95.25.

Item No. 3. 5 Type CR 7051-J3 General Electric automatic starting compensators for use with General Electric 15 H. P., 230-V, 2 phase 60 cycle motor, with thermal overload relays, under-voltage protection, PB control thru definite time limit acceleration. Price each, \$95.25.

Item No. 4. 2 Type CR 7051-J3 General Electric automatic starting compensators for use with General Electric 20 H. P., 230-V, 2 phase, 60 cycle motor, with thermal overload relays, under-voltage release and PB control thru definite time limit acceleration. Price each, \$103.50.

YAKIMA, Wash.—Until April 10, bids will be received by U. S. Indian Irrigation Service, Federal Bldg., Yakima, to construct one sub-station lowering the voltage from 66,000 to 2300 volts, 3-phase, 60 cycles, and supplying power to 250-h. p. and 1 1/2-hp. squirrel cage induction motor. Plans obtainable from above office.

KAHULU, Hawaii—See "Government Work and Supplies," this issue. Bureau of Yards and Docks, Navy Department, Washington, D. C., will ask bids in the immediate future for the development work in connection with the Naval Ammunition Depot at ahua, Hawaii, involving the erection of 131 buildings, approximately 11 1/2 miles of railroads, 14 1/2 miles of paved and electrical, telephone and water supply systems. Bidding data for this project will appear in Dailyacific Builder in subsequent issues.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Preliminary Drawings Completed.
AL. Cost, \$—
AN JOSE, Santa Clara Co., Calif. Site near Milpitas under consideration. Reproof county jail. Owner—County of Santa Clara, Henry Pfister, county clerk. Architect—Binder & Curtis, 35 W San Carlos St., San Jose.

SAN FRANCISCO—Martin J. Tierney, superintendent of public building, has submitted tentative plans to

the Bureau of Architecture, Board of Public Works, for the construction of two new court rooms in the City Hall. The contemplated improvements will involve considerable marble work and oak paneling. The cost is estimated at \$13,492.

Preliminary Plans Awarding Approval
FIRE HOUSE Cost, \$45,000
SAN FRANCISCO. Lombard St. between Broderick and Baker.

Brick fire house.
Owner—City and County of San Francisco (S. J. Hester, secretary, Board of Public Works).
Architect—W. E. Baumberger, 251 Kearny Street.

The structure will house an engine company, truck company, chemical company and hose tender. Preliminary plans have already received the approval of the Fire Commission. (Note change in location.)

Plans Being Figured—Bids Close Apr. 13, 11 A. M.
ALTERATIONS Cost, \$—
BAKERSFIELD, Kern Co., Cal. Alterations and additions to second floor of courthouse.

Owner—County of Kern.
Architect—Edwin J. Symmes, Haberfeld Bldg., Bakersfield.
 Certified check 10% payable to the Chairman of the Board of Supervisors required with bid. Plans on file in office of the county clerk and obtainable from the architect.

Preparing Preliminary Plans.
ARMORY Cost, \$25,000
YUBA CITY, Sutter Co., Cal. Armory.
Owner—State of California.
Architect—Charles F. Dean, California State Life Bldg., Sacramento.

Plans Being Figured—Bids Close Apr. 28, 2 P. M.
Granite Work, Architectural Terra Cotta, Indiana Limestone and Exterior Cast Stone Work in connection with
LEGION BLDG. Cost, \$2,500,000
SAN FRANCISCO. Civic Center.

Four-story and basement concrete class A Legion Building.
OPERA HOUSE Cost, \$2,500,000
Six-story class A opera house, seating capacity 4,000; standing room 500.
Owner—City and County of San Francisco (S. F. War Memorial).
Architect—G. A. Lansburgh, 140 Montgomery St. and Arthur Brown, 251 Kearny Street
Mgrs. of County—Lindgren & Swinerton, Inc., 225 Lush St.

RESIDENCES

Plans Complete.
RESIDENCE Cost, \$6000
SAN FRANCISCO. E Capp Street 9 1/2th.

Two-story and basement frame residence (9 rooms, 2 baths; rustic and shiplap exterior).
Owner and Builder—G. Caranza, 374 Shotwell Street.
Architect—G. A. Berger, 309 Valencia Street.
 Tar and gravel roof. Sub-bids will be taken in one week.

Sub-Bids Being Taken.
RESIDENCE Cost, \$10,000
MILLBRAE HIGHLANDS, San Mateo Co., Calif.
One-story and basement frame and stucco residence (7 rooms and 2 baths).
Owner and Builder—D. E. Pearson, 1000 Berkeley St., Berkeley.
 Canvas walls and ceilings, gas heating system; colored tile bath and kitchen.

Completing Plans.
RESIDENCE Cost, \$12,000
SANTA CRUZ, Santa Cruz Co., Cal. One-story and basement frame and stucco residence (7 rooms and 3 baths); English type; tile or slate roof).
Owner—L. Bowman, Santa Cruz.
Architect—L. D. Doty & McPhetres, Alta Bldg., Santa Cruz.
 Bids will be taken April 1.

Contract Awarded.
RESIDENCE Cost, \$9000
OAKLAND, Alameda Co., Cal. Two-story and basement frame and stucco residence (9 rooms and 2 baths).
Owner—Withheld.
Architect—Geo. Ellinger, 1723 Webster St., Oakland.

Contractor—George Swanstrom, 1723 Webster St., Oakland.
 Mr. Swanson will act as manager of construction when financing arrangements have been completed.

Completing Plans.
RESIDENCE Cost, \$4000
OAKLAND, Alameda Co., Cal. Quigley Avenue.
One-story and basement frame and stucco residence (5 rooms).
Owner—F. B. Menka, % Architect.
Plans by Ralph Wood, 1197 Foothill Blvd., San Leandro.
 Sub-bids will be taken in one week.

Sub-Bids Being Taken.
RESIDENCES Cost each, \$4000
SAN FRANCISCO. E 30th Avenue S Ulloa Street.
Five one-story and basement frame and stucco residences.
Owner and Builder—A. J. Herzog, 633 Victoria Street.
Plans by D. E. Jaekle, Call Bldg.

Preparing Preliminary Plans.
RESIDENCE Cost, \$12,000
SEABEACH, Sonoma Co., Cal. Two-story and basement frame and stucco residence (8 rooms, 2 baths)
Owner—Chas. Meyers, Sebastopol.
Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.

Plans Being Figured.
FRATERNITY HOUSE Cost, \$—
BERKELEY, Alameda Co., Cal. Virginia St. near LeConte Ave.
Two-story and basement frame and stucco fraternity house.
Owner—Alpha Chi Sigma, 2428 College Ave., Berkeley.
Architect—W. H. Ratcliff, Jr., Chamber of Commerce Bldg., Berkeley.
 Bids will be called for shortly.

Plans Being Figured.
RESIDENCE Cost, \$—
SAN FRANCISCO. Marina District.
Two-story and basement frame and stucco residence (8 rooms and 3 baths).
Owner—Withheld.
Architect—Norman R. Coulter, 45 Kearny Street.

To Be Done By Day's Work.
RESIDENCE Cost, \$11,000
PIEDMONT, Alameda Co., Cal. 566 Blair Avenue.
Two-story and basement frame and stucco residence (7 rooms).
Owner and Builder—Sigwald Bros., 916 Alma Ave., Oakland.
Architect—Ray Keefer, 328 1/2 Lakeshore Blvd., Oakland.

Sub-Bids Being Taken
RESIDENCE Cost, \$15,000
WOODSTOCK, San Mateo Co., Cal. Two-story and basement frame and stucco residence (7 rooms and 3 baths).
Owner and Builder—G. W. Williams & Co., Ltd., 1404 Broadway, Burlingame.
Architect—J. K. Ballantine, 137 Harlan Place, San Francisco.

Contract Awarded
RESIDENCE Cost, \$18,000
STOCKTON, San Joaquin Co., Calif.
North Cross Addition (Pine St.)
Two-story and basement brick veneer
residence (11 rooms, 4 baths).
Owner—L. E. Reaney, 415 East Miner
St., Stockton.
Architect—J. U. Cloudsley, Exchange
Bldg., Stockton
Contractor—E. Merlo, Moreings Lane,
Stockton.

Preparing Working Drawings.
RESIDENCE Cost, \$—
KENTFIELD, Marin Co., Cal.
Two-story and basement frame and
stucco residence (8 rooms, 3 baths)
Owner—Withheld.
Architect—W. E. Baumberger, 5 4 4
Market St., San Francisco.
Bids will be taken in about 30 days.

Bids To Be Taken In One Week.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement rustic residence
(7 rooms).
Owner—C. Wesley Toy, 760 S 9th St.,
San Jose.
Architect—Binder & Curtis, 36 W San
Carlos St., San Jose.

Contract Awarded.
RESIDENCE Cost, \$33,000
RUTHERFORD, Napa Co., Cal.
Two-story basement and frame and
stucco residence (stone exterior, 10
rooms).
Owner—Wallace Everett, Rutherford.
Architect—Farr & Ward, 68 Post St.,
San Francisco.
Contractor—A. Cedarborg, 1455 Excel-
sior Blvd., Oakland.
Construction will be started in ten
days.

Plans Being Prepared.
RESIDENCES Cost each, \$12,500
PIEDMONT, Alameda Co., Calif. Blair
Avenue.
Two 2-story and basement frame and
stucco residences (eight rooms and
three baths).
Owner and Builders—Sigwald Brothers
916 Alma Ave., Oakland.
Architect—Ray F. Keefer, 3281 Lake-
shore Blvd., Oakland.

Sub-Bids Being Taken.
RESIDENCE Cost, \$12,000
PIEDMONT, Alameda Co., Cal. 566
Blair Avenue.
Two-story and basement frame and
stucco residence (8 rooms and 3
baths).
Owner and Builders—Sigwald Bros.,
916 Alma Ave., Oakland.
Architect—Ray Keefer, 3 2 8 1 Lake-
shore Blvd., Oakland.

Plans Being Completed.
RESIDENCE Cost, \$7000
SAN RAFAEL, Marin Co., Cal. Mc-
Rae Ave.
One-story and basement frame and
stucco residence (6 rooms).
Owner—Warren Crane, San Rafael,
California.
Architect—S. Helman, 605 Market St.,
San Francisco.
Bids will be taken within one week.

Date Of Opening Bids Postponed Until
April 5th, 2 P. M.
RESIDENCE Cost, \$6000
SAN JOSE, Santa Clara Co., Cal.
One-story basement and frame and
stucco residence.
Owner—William Walsh, 1445 Liberty
St., San Jose.
Architect—Wolfe & Higgins, Realty
Bld., San Jose.

Contract To Be Awarded.
RESIDENCE Cost, \$22,000
SAN FRANCISCO, Monterey Heights
Two-story and basement frame and
stucco residence (9 rooms and 3
baths).

Owner—A. H. Meyer, 1200 Monterey
Blvd.
Plans by D. E. Jaekle, Call Bldg.
Contractor—G. W. Stanley, 467 Turk
Street.
Full tile roof, gas and steam heat-
ing system.

Plans Being Prepared.
RESIDENCE Cost, \$10,000
LIVERMORE, Alameda Co., Cal.
Two-story and basement frame and
stucco residence.
Owner—Withheld.
Architect—Leonard Ford, 1435 Harri-
son St., Oakland.
Bids will be taken in ten days for a
general contract from local contrac-
tors.

Bids To Be Taken Within One Week
RESIDENCE Cost, \$7000
ROSS, Marin Co., Cal.
Two-story frame and stucco residence
(6 rooms).
Owner—Chas. Bradley.
Architect—E. Helman, 605 Market St.
—San Francisco.

SCHOOLS

Contract Awarded
SCHOOL Cost, \$417,176
SANTA BARBARA, Santa Barbara
Co., Calif.
Two-story reinforced concrete school
(terra cotta, tile roof).
Owner—Santa Barbara Union High
School District.
Architect—W. H. Weeks, 525 Market
St., San Francisco.
Contractor—Carl N. Swensen, 355
Stockton Ave., San Jose.

To Ask Bids April 10.
SCHOOL Cost, \$87,000
YUBA CITY, Sutter Co., Cal.
Two-story brick elementary school.
Owner—Yuba School District, C. P.
Taylor, Roy E. Cassidy and Eliza-
beth Z Littleton (clerk), trustees
of district.
Architect—Davis-Pearce Co., Grant &
Weber Sts., Stockton.

Plans Being Figured—Bids Close Apr.
16, 8 P. M.
GYMNASIUM Cost, \$20,000
PRINCETON, Colusa Co., Cal.
One-story frame and stucco gym-
nasium.
Owner—Princeton Joint Union High
School District, O. F. Steel, clerk.
Architect—Chester Cole, 1st National
Bank Bldg., Chico.
Steam heating system, tile roof,
stage and equipment, hardwood floor-
ing.

Certified check or bidder's bond 10%
required with bid. Plans on file at
the high school in Princeton and ob-
tainable from the architect.

PACIFIC GROVE, Monterey Co.
Cal.—W. H. McConnell, Inc., 104
Munras St., Monterey, at \$1287 award
ed contract by Pacific Grove Union
High School District for the installa-
tion of electric light fixtures, omitting
the border lights in addition to high
school. W. H. Weeks, architect, 52
Market St., San Francisco.

PACIFIC GROVE, Monterey Co.
Cal.—Fred E. Turner Co., Stockton
at \$1377 awarded contract by Pacific
Grove High School District to furnish
stage curtain, cyclorama on stage an-
auditorium window drapes, etc. W.
H. Weeks, 525 Market St., San Fran-
cisco, architect.

Preliminary Plans Being Prepared.
SCHOOL Cost, \$85,000
ST. HELENA, Napa Co., Calif.
One-story reinforced concrete gram-
mar school and auditorium (eight
classrooms and auditorium).
Owner—St. Helena Grammar School
District.
Architect—Wolfe and Higgins, Realty
Bldg., San Jose.
Bond election to finance construc-
tion to be held April 21.

SANTA CRUZ, Santa Cruz Co., Cal
—Board of Education has voted to in-
stall the telechron clock system with
master clocks in new schools. Various
types of metal lockers are being in-
vestigated by the board and a selec-
tion is expected to be made shortly.

Plans Being Prepared.
SCHOOL Cost, \$—
BUTTONWILLOW, Kern Co., Cal.
Grammar school.
Owner—Buttonwillow Grammar School
District.
Architect—Clarence Cullimore, 10 Ole
ander Ave., Bakersfield.

Plans Being Figured—Bids Close Apr
14, 8 P. M.
ELECTRIC SYSTEM Cost, \$—
SANTA CLARA, Santa Clara Co., Cal
Electric wiring system for elementary
school.
Owner—Santa Clara School District
Chas. W. Townsend, clerk.
Architect—Ralph Vryckoff, San Jose
National Bank Bldg., San Jose.
Certified check 5% payable to clerk
of district required with bid. Plans
on file in office of Superintendent of
Schools at High School, Santa Clara
and obtainable from the architect on
deposit of \$20, returnable.

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Contracts Awarded.
CHOOI Cost, \$—
ANTA CLARA, Santa Clara Co., Cal. Reinforced concrete elementary school owner—Santa Clara School District. Architect—Ralph Wyckoff, 19 N-Second St., San Jose.

General Work
Paul Anderson, Tully Road, San Jose\$27,086
Plumbing
August Roll, 1157 Franklin St., San Jose\$4176
Painting
Peter Rohde, 900 Willow Glen Way, San Jose.....\$1511

Electric bids have been rejected and new bids will be advertised. Heating bids are still held under advisement.

Contract Awarded.
LABORATORY Cost, \$100,000
ASABENA, Los Angeles Co., Cal. California Street.
 one-story and basement reinforced concrete laboratory (71x52 feet). Owner—California Institute of Technology, Pasadena.
Contractor—Wm. C. Crowell, 495 S. Broadway, Pasadena.

ommissioned To Prepare Plans.
CHOOI Cost, \$40,000
RRYOY GRANDE, San Luis Obispo Co., Calif.
 one-story elementary school. Owner—Arroyo Grande School District. Architect—Henry Smith and Albert Williams, Humboldt Bank Bldg., San Francisco.
 Bond election will be held sometime during the month of April to finance construction.

MORGAN HILL, Santa Clara Co., Calif.—First Oak Union High School District plans immediate construction of a new gymnasium to replace that recently destroyed by fire. It is expected that definite action will be taken when the insurance is adjusted.

Bids Opened.
LUB BLDG. Cost, \$—
SAN DIEGO, Cal.—Teachers' College. Secretary frame and stucco club building and one-story frame and stucco scripps building (tile roof) owner—State of California.
 Architect—Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.
 Following is a complete list of the bids received:
 Mayson, Long Beach\$20,958
 Clutter Hunt Co., Los Angeles 21,571
 S. Brock, San Diego 22,290
 Van F. Eckles, San Diego 23,598
 Dolph G. Schmid 24,450
 Bids under advisement.

OAKLAND, Cal.—Until April 21, 4 P. M., bids will be received by John W. Edgemond, secretary, Board of Education, 104 Administration Bldg., to furnish curtains and drapes for Fremont High School. Certified check for 10% required with bid. Specifications obtainable from Assistant Business Manager, Board of Education, at the above address.

VALLEJO, Solano Co., Cal.—Following is a complete list of the bids received by secretary, Board of Education, for lockers for school during years 1931-32:
Fred Medart Mfg Co., 7 Front St., San Francisco, 12x12x12, \$1.74 K. D., O. E. Vallejo; 12x15x12, \$1.78 K. D., O. B. Vallejo; 14c additional for metal combination padlock.
C. J. Waterhouse & Sons, 55 New Montgomery St., 12x12x12, \$2.40; 12x15, \$2.60.
Worley Locker Co., San Francisco, 12x12x12, \$1.20 installed; 12x15x12, \$1.25 installed; 12x12x15, \$1.45 in-

stalled; 81c additional for Dudley locks.
Lyon Metal Products Co., San Francisco, 12x12x12, \$2.02; 12x12x15, \$2.28.

OAKLAND, Cal.—Until April 14, 4 P. M., bids will be received by John W. Edgemond, secretary, Board of Education, 104 Administration Bldg., to furnish and deliver science tables for Fremont High School. Certified check 10% required with bid. Specifications obtainable from Assistant Business Manager of the Board of Education at the above address.

Bids Opened.
AUDITORIUM Cost, \$25,000
SACRAMENTO, Sacramento Co., Cal. One-story and basement brick auditorium.
 Owner—St. Joseph's Academy.
 Architect—Harry De Vries, California State Life Bldg., Sacramento.
 Following is a complete list of bids:
Azevedo & Sarmiento, 820 O St., Sacramento\$22,600
Campbell Const. Co., Sacto..... 22,784
W. C. Keating, Sacramento, 22,928
W. H. Robertson, Sacramento, 23,423
Geo. K. Kopp, Sacramento, 23,640
Eugene Kenyon, Sacramento, 24,524
J. A. Pausback, Sacramento, 24,734
Lindgren & Swinerton, Inc., Sacramento 24,959
McGivray Const. Co., Sacto..... 26,350
Ed. Hook, Sacramento, 26,792
 Bids held under advisement.

Plans Being Figured—Bids Close Apr. 13, 11 A. M.
WINDOW SHADES, Etc. Cost, \$—
BERKELEY, Alameda Co., Cal. University Campus.
 Window shades and Venetian blinds; linoleum and laboratory furniture for buildings in engineering group. Owner—University of California, Berkeley.
 Architect—George Kelham, 315 Montgomery St., San Francisco.

Sub-Bids Being Taken. April 1, 1931
CAFETERIA Cost, price, \$20,955
YUBA CITY, Sutter Co., Calif. Yuba City High School.
 One-story reinforced concrete cafeteria.
 Architect—Charles F. Dean, California State Life Bldg., Sacramento.
 Contractor—A. F. Rempter, Artios.

OAKLAND, Cal.—Until April 21, 4 P. M., bids will be received by John W. Edgemond, secretary, Board of Education, 104 Administration Bldg., to furnish new typewriters for Elementary and High Schools and for the purchase of old typewriters no longer used with bid. Specifications obtainable from Assistant Business Manager, Board of Education, at the above address.

OAKLAND, Cal.—Until April 14, 4 P. M., bids will be received by John W. Edgemond, secretary, Board of Education, 104 Administration Bldg., to furnish and deliver miscellaneous school supplies. Certified check 10% required with bid. Specifications obtainable from Assistant Business Manager, Board of Education, at the above address.

Sub-Bids Being Taken.
SCHOOL Cost, \$27,086
SANTA CLARA, Santa Clara Co., Cal. Reinforced concrete elementary school Owner—Santa Clara School District. Architect—Ralph Wyckoff, 19 N-2nd St., San Jose.
Contractor—Paul Anderson, 1210 Lincoln Ave., San Jose.
 Sub-bids are wanted on: Concrete, reinforcing steel, plastering, tile roof and roofing under tile sheet metal, patent windows, cork flooring and shades.
 As previously reported, plumbing awarded to August Roll, 1157 Franklin St., San Jose, at \$4176; painting to Peter Rhode, 900 Willow Glen Way, San Jose, at \$1511.

BANKS, STORES & OFFICES

Sub-Contracts Awarded.
OFFICES Cost, \$25,000
BURLINGAME, San Mateo Co., Cal. Primrose Road near Burlingame Avenue.
 Two-story and basement reinforced concrete building (offices & studio) Owner—Dorothy Crawford Studio.
 Plans by Russell Coleman, 1404 Broadway, Burlingame.

Contractor—G. W. Williams Co., Ltd., 1404 Broadway, Burlingame.
Reinforcing Steel—W. S. Wetenhall Co., 17th and Wisconsin Sts., San Francisco.
Concrete—Gus Adolphson, 706 N. Claremont St., San Mateo.
 As previously reported excavation awarded to H. E. Casey Co., San Mateo.

Sub-Bids Being Taken.
STORE Cost, \$5000
SAN FRANCISCO SE College Ave. and Mission St.
 One-story frame and stucco store. Owner and Builder—A. R. Johnson, 3901 Mission St.
 Plans by D. E. Jaekle, 744 Call Bldg.

Contract Awarded.
BANK Cost, \$—
LOS ANGELES, Cal. No. 3143 Wilshire Blvd.
 One-story and mezzanine floor reinforced concrete bank and store (10x21 ft.)
 Owner—Everett A. Seaver.
 Architect—Walker & Eisen, Western Pacific Bldg., Los Angeles.
 Contractor—Schoenrock-Johnson Co., 450 N-Beverly Dr., Beverly Hills.

"Gold Medal" Safety Scaffolding

for use on steel and concrete frame buildings; saves lives, time and money

It pays to use the best Scaffolding Equipment whenever a Scaffold is required. The risk is always great.

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270 13th Street, San Francisco - Phone HEMlock 4278

Lessor of Suspended and Swinging Safety "Gold Medal" Scaffolding.

Completing Plans.
REMODELING Cost, \$—
BERKELEY, Alameda Co., Cal. Shattuck Avenue.
 Remodel former bank building.
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of America, Eddy and Powell Sts., and 525 Market St., San Francisco
 Bids will be taken in one week.

Completing Plans.
ALTERATIONS Cost, \$—
BERKELEY, Alameda Co., Cal. College Avenue.
 Alterations to bank for store.
 Owner—Bank of America.
 Architect—H. A. Minton, Eddy and Powell Sts., San Francisco.
 Bids will be taken in one week.

Plans Completed.
STORE Cost, \$4000
LIVERMORE, Alameda Co., Cal.
 One-story brick and terra cotta store.
 Owner—Mrs. Abbie Carlisle.
 Architect—George Ellinger, 1223 Webster St., Oakland.
 Bids will be called for at a later date.

Preparing Preliminary Plans.
STORE Cost, \$150,000
SAN MATEO, San Mateo Co., Cal. Third Avenue.
 One or two-story reinforced concrete and steel department store.
 Owner—Levy Bros., 200 Second St., San Mateo.
 Architect—Hyman & Appleton, 63 Post St., San Francisco.

Marble Bids Wanted.
BANK Cost, \$200,000
MONTEREY, Monterey Co., Cal. Location not selected.
 One-story and mezzanine steel frame and concrete bank with tile roof.
 Owner—Monterey County Trust & Savings Bank.
 Architect—H. H. Winner Co., 580 Market St., San Francisco.
 Mgr. of Const.—Mary Finlayson, % Architect.
 Cabinet and Mill Work—H. Schulte, 49 Rogers St., San Francisco.
 As previously reported, electrical work awarded to Carroll & Searle, 763 Lighthouse Ave., Monterey; structural steel to McClintic-Marshall Co., 2050 Bryant St., S. F.; reinforcing steel to Gunn, Carle & Co., 444 Market St., S. F.; excavation to M. J. Murphy, Carmel.

Plans Being Figured—Bids Close Apr. 6, 10 A. M.
STORE Cost, \$100,000
OAKLAND, Alameda Co., Cal. Broadway.
 One-story and basement class C steel frame concrete and hollow tile department store.
 Owner—Isadore Weinstein, 1041 Market St., San Francisco.
 Architect—Wm. Knowles, 1214 Webster St., Oakland.

Sub-Contracts Awarded.
BANK Cost, \$60,000
LOS GATOS, Santa Clara Co., Calif. Main St. and Santa Cruz Avenue (52x100-ft.)
 One-story reinforced concrete bank with tile roof (ornamental stone and acoustical plaster).
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of America Bldg., Eddy and Powell Sts., San Francisco.
 Contractor—Jacks and Irvine, 74 New Montgomery St., San Francisco.
Plumbing & Heating—Dowd & Welch, 3558 16th St., San Francisco.
Steel Forms—Steel-Form Contracting Co., Monadnock Bldg., San Francisco.
Electrical Work—Roy Davenport, Los Gatos.

As previously reported, wrecking awarded to S. Jose Wrecking & Bldg. Supply Co., San Jose; structural steel to Judson-Pacific Co., 609 Mission St., San Francisco.

There will be two stores, 20x72 feet, in connection with the building. Sub-bids are being taken on other portions of the work.

Completing Plans.
BANK Cost, \$25,000
HOLLISTER, San Benito Co., Cal. One-story reinforced concrete bank.
 Owner—Bank of America.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Bids will be taken in one week.

Contract Awarded.
BANK Cost, \$75,000
SAN MATEO, San Mateo Co., Calif. B Street and Third Ave. (110 feet frontage).
 One-story concrete bank.
 Owner—Bank of America.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Contractor—Young & Horstmeier, 461 Market St., San Francisco.

Completing Details.
OFFICES Cost approx. \$800,000
SACRAMENTO, Sacramento Co., Cal. Eighth and J Streets.
 Sixteen-story and basement class A reinforced concrete office building.
 Owner—Henry Altan et al, 1422 40th St., Sacramento.
 Architect—Geo. Sellon & Co., California State Life Bldg., Sacramento.
 Contractor—Lindgren and Swinerton, Inc., California State Life Bldg., Sacramento.
 Construction will be started in ten days.

Contract Awarded.
OFFICE BLDG. Cost, \$89,000
SAN JOSE, Santa Clara Co., Cal.—Third Street.
 One-story brick office building.
 Owner—Gladding Bros., Mfg. Co., 4th and Keyes Sts., San Jose
 Architect—Wolfe & Higgins, 19 North Second St., San Jose.
 Contractor—C. F. Keesling, 798 Coe Street.

THEATRES

Plans Being Prepared.
ALTERATIONS Cost, \$—
SAN FRANCISCO, No. 1077 Market
 Remodel Class A theatre (interior and exterior alterations).
 Owner—United Artists Corp., 931 S Broadway, Los Angeles.
 Architect—Walker & Eisen, Western Pacific Bldg., Los Angeles.

Plans Being Prepared.
THEATRE Cost, \$100,000
RICHMOND, Contra Costa Co., Cal. S Macdonald Ave., bet. Seventh and Eighth Streets.
 Class A concrete theatre (to seat 1200)
 Owner—United Artists of California, 1966 S-Vermont St., Los Angeles, (Lewis Anger in charge).
 Architect—Walker & Eisen and C. A. Balch, Western Pacific Bldg., Los Angeles.

Completing Plans.
ALTERATIONS Cost approx. \$60,000
SAN FRANCISCO, 4631 Mission St.
 Alterations to present theatre.
 Owner—Golden Gate Theatre & Realty Co., 25 Taylor St.
 Architect—Frederick H. Meyer, 825 Market Street.
 Bids will be called for shortly.

BERKELEY, Alameda Co., Cal.—United Artists Corp., Los Angeles. Is reported to be negotiating with A. O. Donogh for property in the west side of Shattuck Ave. adjoining the Art Museum and the public library on

which the corporation proposes to erect a \$350,000 theatre. The site has a 35-ft. frontage on the west side of Shattuck Ave. and includes an 80-ft. frontage on Bancroft Way with a depth of 150 feet. The property, it is understood, would have to be re-zoned by the City Planning Commission before construction will be started. Walker & Eisen, Western Pacific Bldg. Los Angeles, will probably be the architects.

Sub-Bids Being Taken.
ALTERATIONS Cost, \$50,000
WATSONVILLE, Santa Cruz Co., Cal. Remodel theatre.
 Owner—Fox & California Theatre (Douglas Graham, Mgr.), Watsonville.

Private plans.
 Contractor—Alfred J. Hopper, 176 Pleasant Valley Ave., Piedmont.
 Sub-bids are wanted on structural steel (for tower), plastering, tile work tile roofing (on tower), wrought iron railings and plastering.
 Work will involve complete remodeling and redecorating in addition to a neon marquee, Spanish type organ loft, carpets, drapes and new seating.

MISCELLANEOUS CONSTRUCTION

Contract Awarded.
UNDERTAKING PARLORS \$40,000
SAN FRANCISCO, Sacramento Street bet. Van Ness Ave. and Polk St.
 Three-story frame and stucco undertaking establishment and apartments (50x100-ft.)
 Owner—Jos. Hagan, 178 Sacramento.
 Architect—Henry C. Smith and A. R. Williams, Humboldt Bank Bldg.
 Contractor—Reavey & Spivock, Shell Oil Bldg.
 Sub-bids are in and will be awarded within one week.

MARTINEZ, Contra Costa Co., Cal.—City council has instructed City Engineer Ben Greene to make preliminary surveys and submit estimates of cost for two municipal tennis courts on city property at Pacheco Blvd. and Brown St.

Preparing Working Drawings.
TRACK Cost, \$200,000
BERKELEY, Alameda Co., Cal. University Campus.
 Reinforced concrete track Stadium Bowl (to seat 20,000 approx.)
 Owner—University of California.
 Architect—Warren C. Perry, 260 California St., San Francisco.

TUOLUMNE COUNTY, Cal.—Until April 13, 2 P. M. bids will be received by R. E. Pierce, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, to construct hogtight property fence and install new property gates in Tuolumne county between 1½ miles west of Keystone and Keystone.

SAUSALITO, Marin Co., Cal.—Until April 11, 8 P. M., bids will be received by S. G. Ratto, clerk, Sausalito School District, to improve playground areas of the Central School yard, Litho and Calendonía Streets, and at the South School yard, North and Third Streets. Certified check or bid bond 10% payable to Board of Trustees of district required with bid. Specifications obtainable from clerk.

BOULDER CITY, Nevada—Architect G. deColmesnil, 110 Sutter St., San Francisco, has been commissioned by the Six Companies, Inc., Financial Center Bldg., San Francisco, general contractors on the Hoover Dam project, to lay out a town to house employees adjoining Boulder City. Approximately \$600,000 will be expended.

Saturday, April 4, 1931

OAHU, Hawaii.—See "Government Work and Supplies," this issue. Bureau of Yards and Docks, Navy Department, Washington, D. C., will ask bids in the immediate future for the development work in connection with the Naval Ammunition Depot at Oahu, Hawaii, involving the erection of 131 buildings, approximately 1½ miles of railroads, 14½ miles of paved road and electrical, telephone and water supply systems. Bidding data on this project will appear in Daily Pacific Builder in subsequent issues.

Commissioned to Prepare Plans.
MOTOR INNS (each unit \$180,000)
CALIFORNIA. Sacramento, Los Angeles, Santa Barbara, Bakersfield, Paso Robles and Fresno.
Six motor inns.

Owner—National Motor Inns, Inc., Carroll S. Bucher and Marvin Curtis, Jr., 1035 Russ Bldg., San Francisco (organizers).

Architect—Raymond W. Jeans, 605 Market St., San Francisco.
Contractor—Geo. L. Leiter, 3700 West Broadway.

Each unit will cover an area of approximately five acres and will consist of administration building, kitchen, dining room, service station, plunge and 120 guest rooms. Financing arrangements are being made.

GLENDALE, Los Angeles Co., Cal.—Grand View Memorial Park, E. H. Dimity, president, Security Title Insurance Bldg., Los Angeles, contemplates erecting a new mausoleum in Glendale. Project will probably not mature before 1932.

MISCELLANEOUS SUPPLIES AND MATERIALS

SAN FRANCISCO—Until April 20, 5 P. M., under Proposal No. 693, bids to be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver:

Under Class 7—Hardware and castings;

Under Class 11—Lumber. Above materials to be delivered as ordered from time to time during the semi-annual term commencing July 7 and ending December 31, 1931. Specifications obtainable from above.

SACRAMENTO, Cal.—Until April 13, 5 P. M., bids will be received by Chas. C. Hughes, secretary, Board of Education, to furnish and deliver fuel oil as required by city school department throughout the fiscal year ending June 30, 1932. Specifications obtainable from above.

BUSINESS OPPORTUNITY

Solar Corporation, Beaver Dam, Wisconsin, manufacturers of storage batteries for automobile, radio, farm lighting power plant and marine use, inquire for list of exporters of this type of merchandise.

Shinzaiko Engine and Iron Works, Kobe, Japan, desires to receive names of firms supplying equipment for oil burning installation suitable for house and small building heating.

Joe Zwolank of the Barber-Colman Co., Rockford, Ill., desires representation in Northern and Central California for the sale of an electric system of temperature control.

John A. Toomey of the Industrial Bureau, Worcester Chamber of Commerce, Worcester, Mass., represents a manufacturer of tools who wishes to secure a jobber in this section.

Chas. Melhads, president of Thernolar, Inc., 323 Lafayette St., New Orleans, La., manufacturing a heating appliance for the home. Desires representation in this district.

Amendment of the State law to limit expenditure of gasoline taxes returned to the counties for the construction and maintenance of roads, avoidance of further increases in tax levies until a financial plan can be developed for road improvement based on traffic importance and a pooling of convict labor forces and road machinery purchases are the major recommendations of a report just published by the Bureau of Public Roads, U. S. Department of Agriculture, following an investigation of the financing and administration of county road work in North Carolina.

These recommendations, together with others were based upon a cooperative survey of county roads and local financial operations in the 100 counties of North Carolina made by the State Highway and Tax Commission and the Federal Bureau of the Sions and was made at the request of Governor G. Max Gardner. The recommendations of the three agencies may be grouped in two general divisions—those covering finance and those pertaining to administration.

The recommended amendment of the law to limit the use of gasoline taxes to road purposes is coupled with suggestions that for the present no more local roads be transferred to the State system and that the increase of taxation be made until local roads are classified on the basis of traffic surveys and until a financial plan is developed to provide for their progressive construction and annual maintenance consistent with their traffic importance and the available resources, the State Highway Commission to have general supervision over improvement of roads of major importance.

Under the present law, counties may, at their option, use the gasoline tax for general county debt service or for road purposes. In 1930 the local road program was financed almost entirely from local tax funds, though approximately \$3,000,000 was found available to counties from State funds, only 15 of the 100 counties spent their shares on roads. The others applied their contributions to the debt service fund used to pay interest and principal on outstanding county obligations. The investigating county agencies take the stand that the gasoline tax is imposed upon motorists to provide for highway improvement and upkeep, and that it should be used for those purposes directly and for no others.

The investigation revealed that under the present county and township organizations road funds are, in many instances, expended without regard to traffic importance of the regular roads improved. It also showed an enormous total expenditure for gasoline, oil and grease, probably because of the use of machinery heavier than required. The investigation indicated that a part of the cost of State and county law enforcement is being paid through the guise of road expense. Many counties also issue bonds for ordinary annual expenses of maintenance and repairs, a practice which, in the opinion of the investigators, should be abandoned.

Recommendations for an economical and practical administrative program include the pooling of convict labor forces under control of the State prison, and the pooling of road machinery purchases and equipment under control of the State Highway Commission; the abolition of all township and special road district organizations with control of the roads by organizations having wider territorial jurisdiction, and the elimination of advisory commission to include supervisory and regulatory powers over budget and accounting affairs in the counties.

Recognizing that the county unit is not sufficiently large to include areas of rich and poor development within the same administrative borders, and that the area of the average county and its road mileage are not sufficient to permit of full utilization of the force and equipment required for economic highway operations, the agencies believe that at least half of the present counties would benefit by consolidation and the residents of the larger counties would still be in close touch with the county society of the inhabitants of the present counties were ten years ago.

With respect to pooling of convict road forces and of machinery for the common use of several counties comprising a group of sufficient size to permit an equalization of the financial burden and a more complete utilization of resources, they suggest, as a practical measure, that the grouping represented by the twenty judicial districts of North Carolina merits careful consideration.

The survey showed that purchases, operation and upkeep of machinery for local roads cause much uneconomical expenditure. The agencies favor some adequate State supervision and control so that in purchasing machinery the road organizations receive the benefit of the reduction in price for quantity purchases. Machinery could also be selected more in accord with actual needs and large units of equipment needed for only occasional work could be transferred from one point to another to end waste by idleness.

Fifty-seven counties of the State now maintain convict camps. To work county convicts economically, the agencies suggest that they be divided into two groups: honor prisoners, who can be worked without guards, and can be used in ordinary maintenance work; and prisoners who have to be worked under guard. Local groups under guard could be organized by districts and would be under the control of the State prison. Local road organizations could then obtain, when funds were available, groups of prisoners for construction work. The district camp could develop such other lines of work as would supplement the road work.

County roads, in general, the agencies find, are not built to the standard in width, alignment or grade set by the State Highway Commission. Of the county mileage taken over by the State, the greater part requires widening, easing of curves or additional additions of county roads to the State system, and with its present supply of funds, the Commission will not be able for many years to improve in accordance with traffic requirements the mileage now under its control.

The mileage survey disclosed that the estimated total of 65,311 miles made in 1926 by county road officials was about 17,500 miles greater than the actual count of 45,900 miles, allowing for the transfer, over the four-year period, of 2645 miles to the State system.

The three agencies conducting the survey divided their work as follows: The State Highway Commission, operating through its nine divisions, collected road mileage data on a prepared map. The Tax Commission and the bureau, operating through field parties which obtained data from county records, collected data on highway income, expenditure, bonded indebtedness and tax rates.

The atlas of 100 maps, one for each county, shows the exact local mileage of the State and the location of the roads. It is perhaps the first complete set of county maps containing such information ever made for any State.

Engineering News Section

BRIDGES

SAN DIEGO COUNTY, Cal.—Until April 22, 2 P. M., bids will be received by State Highway Commission to construct a reinforced concrete girder bridge across San Dieguito River about 1 mile north of Del Mar, consisting of eleven 54-ft. spans on concrete piers and abutments with wing walls, all on pile foundations.

PLACER COUNTY, Cal.—Until April 22, 2 P. M., bids will be received by State Highway Commission to construct a reinforced concrete girder bridge across Coon Creek, 3.6 miles north of Lincoln, consisting of six 34 ft. 6 in. spans on reinforced concrete pile bents.

MARTINEZ, Contra Costa Co., Cal.—J. H. Fitzmaurice, 354 Hobart St., Oakland, at \$500,000 awarded contract by city trustees to construct concrete bridge over Alhambra Creek in Green street. See complete bid listing in a separate tabulation published in this issue.

STOCKTON, San Joaquin Co., Cal.—Early construction of the proposed \$70,000 Garwood Ferry bridge and the \$5000 Beaver Slough bridge is assured with the signing by Governor Ralph the Crittenden bridge measure, according to County Surveyor Julius Mantley. The bid committee consists of boards of supervisors to construct bridges across navigable waterways and was hurried through legislative channels as an emergency measure. Outside engineering assistance will be required to hasten the preparation of building plans. The United States War Department has approved construction of the Garwood Ferry bridge, and an application to proceed with the Beaver slough project is on file with the Government.

MERCED, Merced Co., Cal.—Until April 14, 11 a. m., bids will be received by P. J. Thornton, county clerk, to reconstruct bridge No. 230, involving reconstruction of the floor system of the steel portion of the Cox Ferry bridge over the Merced river on the Cox Ferry road. Certified check 10 per cent payable chairman of the Board of Supervisors required with bid. Plans obtainable from W. E. Bedesen, county surveyor, on deposit of \$10, returnable.

PLACER COUNTY, Cal.—As previously reported, bids will be received April 22 by State Highway Commission to construct a reinforced concrete girder bridge across Coon Creek, 3.6 miles north of Lincoln, consisting of six 34 ft. 6 in. spans on reinforced concrete pile bents. Project involves:

- (1) 650 cu. yds. roadway embankment (detour);
- (2) 920 sq. yds. detour surfacing;
- (3) 1 only, detour bridge complete;
- (4) 1 only, existing bridge to be removed and disposed of;
- (5) 1450 lin. ft. reinf. concrete piles, including test piles;
- (6) 335 cu. yds. class A Portland cement concrete;
- (7) 16 cu. yds. class E Portland cement concrete;
- (8) 82,000 lbs. reinf. steel;
- (9) 590 lbs. bronze expansion plates;
- (10) 1 lot miscellaneous items of work.

MERCED, Merced Co., Cal.—Until April 14, 11 a. m., bids will be received by P. J. Thornton, county clerk, to construct timber bridge No. 229 over Dry Creek on the Amsterdam and Ryer Road. Certified check 10 per cent payable to chairman of the Board of Supervisors required with bid. Plans obtainable from W. E. Bedesen, county surveyor, on deposit of \$10, returnable.

MARIPOSA COUNTY, Cal.—Until April 21, 2 p. m., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to construct a bridge across the south fork of the Merced River and grading approaches on Section B2 of Route 2, the Wawona Road, Yosemite National Park, and constructing a bridge across Big Creek and grading approaches and grade rectification on Section E of Route 47, Oakhurst National Forest Highway, Sierra National Forest in Mariposa County, involving:

6,760 cu. yds. unclassified excavation;
750 cu. yds. unclassified excav. for structures;
460 cu. yds. unclass. excav. for borrow;
6,900 sta. yds. overhaul;
34 cu. yds. Class A concrete;
58 cu. yds. Class D concrete;
100 cu. yds. Class S concrete;
9,350 cu. yds. reinforcing steel;
530 cu. yds. masonry;
32 in. ft. 10-in. C.M. pipe in place;
101,000 lbs. structural steel;
235 sq. yds. asphaltic plank wear surface;
27.2 M.E.M. untreated timber;
242 lin. ft. log handrails;
167 lin. ft. long stringers.
Plans obtainable from engineer on deposit of \$10, returnable; checks for same to be made payable to Federal Reserve Bank of San Francisco.

SAN LUIS OBISPO, Cal.—City council has called an election for April 6 to vote bonds of \$12,000 to finance widening of the present bridge in Essex St. near Pismo St., over San Luis Obispo Creek and widening the present culvert in North Broad St. over Old Garden Creek. Callie M. John is city clerk and Leon Moore, city engineer.

STOCKTON, San Joaquin Co., Cal.—George Owen, Petaluma, at \$48,500 awarded contract by county supervisors to construct culvert at Woodbridge Irrigation District's canal and Harney Lane in Road District No. 2. Complete list of bids follows:

Geo. Owen, Petaluma.....	\$ 848
Nelson Bros., Stockton.....	1335
Carl Nelson, Stockton.....	1000
J. Hachman, Stockton.....	1045
P. L. Hansen, Stockton.....	1600

CALIFORNIA.—See "Streets and Highways," in this issue. Announcement of State Highway Commission with regard to revised forms for Contractors' State of Experience and Financial Condition.

SANTA BARBARA, Calif.—Until 10 A. M., April 13, bids will be received by county supervisors to construct a steel bridge, with reinforced concrete deck, located on the Goleta Foothill Blvd., over San Roque Creek, in the 3rd Road District, County of Santa Barbara. Proposed guarantee, 10%.

The estimated cost is \$53,000. Owen T. O'Neill, county engineer. Plans obtainable from the county engineer on deposit of \$10. D. H. Hunt, county clerk.

EAKERSFIELD, Kern Co., Calif.—Wm. Eissler, Bakersfield, at \$2,194.66 awarded contract by county supervisors to construct timber bridge on the Bakersfield-Glennville Highway over Poso Creek, involving:

- (a) 145 cu. yds. excavation;
- (b) 30,756 ft. timber, board measure, including all incidentals.

Complete list of bids follows:

Wm. Eissler.....(a)	\$ 50 (b)	\$69.00
F. A. Greenough.....(a)	.50 (b)	63.50
C. H. Likely.....(a)	.45 (b)	73.00
W. A. Croft.....(a)	.75 (b)	74.30
Currie & Dulgar.....(a)	.30 (b)	77.00
F. W. Frynter.....(a)	.40 (b)	77.00
J. F. Shepardson.....(a)	1.00 (b)	74.85
Greene Const. Co.....(a)	1.00 (b)	73.60
Glen H. Burger.....(a)	1.00 (b)	75.75

MONTEREY, Monterey Co., Cal.—Hanrahan Co., Standard Oil Bldg., San Francisco, at \$37,825 awarded contract by State Highway Commission to construct a reinforced concrete bridge across Garrapata Creek about 16 miles south of Monterey, consisting of one 150-ft. arch span and five 25-ft. girder spans on concrete abutments and bents and about .28 mile of roadway to be graded. Complete list of the unit bids received on this project published in issue of March 28th.

EL CERRITO, Contra Costa Co., Cal.—Schmoor Bros., 574 Claremont Ave., Berkeley, at \$399.57 awarded contract by city trustees to construct concrete culvert in Liberty Street extension between Fink and Moesser Avenues. Other bids: J. R. Conahan, \$444; J. T. Clinch, \$464; Martin Murphy, \$500.

MERCED COUNTY, Calif.—M. E. McGowan, 74 New Montgomery St., San Francisco, at \$102,400 submitted low bid April 1 to State Highway Commission to construct steel stringer overhead crossing over the tracks of The Atchison, Topeka & Santa Fe Railway about 2½ miles east of Merced, consisting of thirty-one 40-ft. spans and seven 20-ft. spans with reinforced concrete deck on steel pile bents and steel frame bents on concrete footings with timber pile foundations and approaches to be graded and paved with Portland cement concrete. Complete list of bids follows:

M. E. McGowan, S. F.....	\$102,400
Bodenhammer Const. Co., Oak- land.....	105,481
Rocca & Coletti, San Rafael.....	106,789
Lindgren & Swinerton, S. F.....	107,298
Gutleben Bros., Oakland.....	107,351
Frederickson & Watson and Frederickson Bros., Oak- land.....	108,550
J. F. Knapp, Oakland.....	108,825
Merritt-Chapman & Scott, San Pedro.....	109,715
A. W. Kitchen, S. F.....	110,484
D. G. Johns, Santa Monica.....	110,772
Oberholser, Los Angeles.....	111,420
G. F. Atkinson Co., S. F.....	112,995
Ralph McLeran & Co., S. F.....	113,643
Mercer-Praser Co., Eureka.....	120,280
Barrett & Hilp, S. F.....	not totaled
C. W. Wood, Stockton.....	not totaled

Bids held under advisement.

PLACER COUNTY, Calif.—P. P. tender, North Sacramento, at \$9,764 submitted low bid April 1 to State Highway Commission to construct a bridge across Auburn Ravine about one-half mile west of Auburn, consisting of six 19-ft. timber spans and no 40-ft. steel beam span on timber ends with concrete footings. Complete list of bids follows:

P. P. Bender, North Sacramento.....	\$ 9,764
J. Ulrich Const. Co. Modesto 9,791	
Young, Yreka.....	10,898
W. Hoops, Sacramento.....	11,517
Johnson Roberts Co., L. A.....	11,674
H. Nielsen, Orland.....	11,730
I. B. McGowan, S. F.....	11,754
V. H. Hauser, Oakland.....	not totaled
Anton-Stephensen Const. Co.....	not totaled
San Francisco.....	not totaled

Bids held under advisement.

SANTA CLARA COUNTY, Calif.—Berg Bros., 3470 Hollenbeck Avenue, Los Angeles, at \$50,153 submitted low bid April 1 to State Highway Commission to construct a reinforced concrete girder bridge across Carnadero Creek about 1.7 miles south of Gilroy, consisting of four 35-ft. spans on concrete pile bents and concrete abutments. Approx. 6.35 miles of roadway approaches to be graded and paved with Portland cement concrete. Complete list of bids follows:

Berg Bros., Los Angeles.....	\$50,153
Hermetite Const. Co., San Jose 51,121	
J. Taisch, San Jose.....	51,426
I. B. McGowan, S. F.....	53,853
Frederickson and Watson and Frederickson Bros., Oakland 54,035	
Neves & Hart, Santa Clara.....	55,135
W. Kitchen, S. F.....	56,098
Peter McHugh, S. F.....	59,574
D. J. Johns, Santa Monica.....	62,500
Robert & Hipp, S. F.....	not totaled

Bids held under advisement.

DREDGING, HARBOR WORKS & EXCAVATIONS

MONTERRI, Monterey Co., Cal.—Bidding will be held May 11 to vote bonds of \$2,250 to finance purchase of reakwater shore connection and the necessary materials storage yard.

RICHMOND, Contra Costa Co., Cal.—U. S. Engineer Office, Customhouse, San Francisco, rejects bids received for dredging in Richmond harbor, involving 523,500 cubic yards. Bids were:

Tranks Contracting Co., San Francisco 14.9c cu. yd.;
San Francisco Bridge Co., 15.1c cu yd. Engineer's estimate, 12.38c.

STOCKTON, San Joaquin Co., Cal.—Following is a complete list of bids received by U. S. Engineer Office, Sacramento, under Circular Proposal No. 31-265, Specifications No. 3081, for excavating approx. 215,000 cu. yds. of material and constructing spoil retaining levees on Venice and Granddale Islands, in the San Joaquin river delta, about 16 miles northwest of Stockton:

Delta Dredging Co.—Borrow 6c; bucket 9c.
R. P. Easley—Borrow 6.45c; bucket 1.45c.
Paris Bros.—Borrow 7.94c; bucket 1.94c.
E. T. Fisher—Borrow 9c; bucket 11c.
A. S. Dutra—Borrow 10.95c; bucket 11c.
Dutton Dredge Co.—Borrow 11.5c; bucket 13.4-5c.

SACRAMENTO, Cal.—Following is a complete list of bids received by U. S. Engineer Office, Sacramento, under Proposal No. 31-266, Specifications 2075, for raising the existing levee along the easterly side of Yolo By-Pass in Reclamation District No. 755, involving 180,000 cu. yds.:

Ajax Dredging Co.—9.9c.
E. T. Fisher—10.2c.
Fennell & Co.—10.3c.
Delta Dredging Co.—12.9c.
Paris Bros.—12.9c.
D. A. Foley Const. Co.—12.45c.
John Phillips Co.—13.5c.
R. L. Oakley—13.7c.
R. P. Easley—14.25c.

IRRIGATION PROJECTS

LINEN, San Joaquin Co., Cal.—Calling of an election by the Linen Irrigation District to vote bonds to finance replenishment of the underground water supply and surface irrigation, will be delayed due to protests filed with the California Land Certification Commission by 125 Mormon Channel property owners. Fred H. Tibbetts, engineer, Alaska Commercial Bldg., San Francisco, in a report to the directors of the district proposed two plans involving an expenditure of \$137,000.

In outlining two separate bond proposals, Engineer Tibbetts recommended an issue of \$93,000 for the installation of a pumping plant at Bellota to divert waters into the old Calaveras channel, running through the district, and an expenditure of \$44,000 to purchase the Salt Spring Valley reservoir, an old mining storage basin nine miles east of Bellota, owned by the California Company of Pittsburg. Under the first proposal, one dam would be constructed in the old Calaveras river bed at Bellota, and four below that town, from which water could be pumped into the district and an adequate supply also backed up into a series of ponds for percolation through the underground strata. The second issue would provide for the purchase of the Salt Spring reservoir at a price of \$30,000, and the repairing of a canal between five and six miles long for diversion of water into a gulch which ends at the Calaveras river about seven miles above Bellota.

STREET LIGHTING SYSTEMS

SAN FRANCISCO—Butte Electric & Manufacturing Co., 956 Folsom St., at \$4,340 awarded contract by Board of Public Works, to install ornamental street lighting for diversion of water into a gulch which ends at the Calaveras river about seven miles above Bellota.

MACHINERY AND EQUIPMENT

OAKLAND, Cal.—Until April 8, 5 p. m. (previously reported April 3), bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, to furnish one portable gasoline engine driven electric welder mounted on steel skids. Proposal No. 284 obtainable from Room 21, 512 16th St.

MARE ISLAND and San Diego, Cal.—"Government Work and Supplies," this issue. Bids wanted for two 25-ton floating steel derricks of stiff-leg type with bull wheels having steel pontoons, steam engines and oil burning boilers for Mare Island Navy Yard and San Diego Destroyer Base.

OAKLAND, Cal.—Colby Steel Engineering Co., Seattle, at \$10,475 submitted low bid to City Port Commission to furnish and install a 10-ton cargo hoist for use at the Inland Waterways Terminal. Otis Elevator

Co., San Francisco, at \$14,835 only other bidder. Taken under advisement.

RAILROADS

OAHU, Hawaii—See "Government Work and Supplies," this issue. Bureau of Yards and Docks, Navy Department, Washington, D. C., will ask bids in the immediate future for the development work in connection with the Naval Ammunition Depot at Oahu, Hawaii, involving the erection of 131 buildings, approximately 11½ miles of railroads, 1½ miles of paved road and electrical, telephone and water supply systems. Bidding data on this project will appear in Daily Pacific Builder in subsequent issues.

FIRE ALARM SYSTEMS

GRASS VALLEY, Nevada Co., Cal.—City council plan to install additional boxes in connection with fire alarm system.

FIRE EQUIPMENT

FRESNO, Fresno Co., Cal.—American-La France Co., at \$11,000, submitted the low bid to the city council to furnish a 100-gallon pumping engine for the Fire Department, including allowance for machine no longer required by city. Mack Motor Truck Co., only other bidder at \$12,200. Taken under advisement.

HAWTHORNE, Nev.—As previously reported, T. G. Rowland, Salt Lake City, Utah, at \$100,000 submitted low bid to the Bureau of Yards and Docks Navy Department, under Specification No. 6165, to construct Cat Creek Dam in connection with Naval Ammunition Plant at Hawthorne. The following is a complete list of the bids received:

T. G. Rowland, Salt Lake City, Utah \$100,000.
C. Dudley De Velbiss, 369 Pine St., San Francisco, \$118,049.
C. F. Dinmore & Co., Ogden, Utah, \$121,000.
W. E. Kier Const. Co., 1st National Bank Bldg., San Diego, \$123,000.
Robert E. McKee, Central Bldg., Los Angeles, \$124,500.
Gist & Bell, Arcadia, Calif., \$136,450.
Thomas Haverty Co., 316 E 8th St., Los Angeles, \$138,345.
Utah Const. Co., 760 Market Street, San Francisco, \$141,000.
Mittry Bros. Const. Co., Los Angeles \$145,525.
Ward Engineering Co., 315 Montgomery St., San Francisco, \$147,000.
McDonald & Kahn Co., Ltd., Financial Center Bldg., San Francisco, \$149,000.

Nevada Contracting Co., Fallon, Nevada, \$155,803.

A. Guthrie & Co., Inc., Sherlock Bldg., Portland, Ore., \$157,500.

Siems, Helmers & Schaffner Inc., St. Paul, Minn., \$158,850.

Guy F. Atkinson Co., Russ Bldg., San Francisco, \$168,354.

Schuler and MacDonald, Inc., 1723 Webster St., Oakland, Calif., \$297,000. The work consists of constructing a constant angle type concrete dam approximately 120 feet in height requiring rock excavation; concrete work; drilling grid holes; pressure grouting; pipe and fittings for grouting and drainage systems, and intake pipe and screens.

PIPE LINES, WELLS, ETC.

OAKLAND, Calif.—Berkeley Steel Const. Co., Inc., 2nd and Camelia Sts., Berkeley, at \$3.87 ft. submitted low bid to the East Bay Municipal Utility District to furnish and deliver 25,000 lin. ft. of ¼-inch thickness 30-in. dia. electric welded sheet steel pipe for

distribution system. Complete list of bids follows:

Berkeley Steel Const. Co., Berkeley	33.87
Western Pipe & Steel Co. of California, San Francisco	4.28
Steel Tank & Pipe Co., Berkeley	4.39
Steel, Inc., Los Angeles	* 4.65
Standard Boiler & Steel Works, Los Angeles	* 25.69
* If permitted to furnish in 26-ft. lengths, unit price to be \$4.65; total \$89.100.	
** Informal due to failure to enclose certified check with bid.	

FRESNO, Fresno Co., Cal.—American La France Co., at \$11,000 net, awarded contract by city council to furnish one 1000-gallon capacity fire engine to replace machine recently wrecked in collision. 27

LOS ANGELES, Cal.—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco, and 523 Pacific Mutual Bldg., Los Angeles, awarded the contract by the Southern Fuel Co., Garland Bldg., Los Angeles, for the construction of approximately 25 miles of natural gas pipe line of 26-in. dia. between Long Beach and Glendale as part of the 210-mile line from the Kettleman Hills to the Long Beach plant of the Southern California Edison Co. The Southern Fuel Co. is owned jointly by the Southern California Edison Co. and the Southern California Gas Co. Pipe for this line will be furnished by the A. O. Smith Corp., 315 W 9th St., this company having been awarded contract for 181 miles of 26-in. pipe. Western Pipe & Steel Co. of Los Angeles, was awarded a contract for furnishing the balance, the greater part of which is to be used at the Kettleman Hills end of the line.

ABERDEEN, Wash.—Until April 15, 5 P. M., bids will be received by Nelle Thrift, city controller, for the reconstruction, rebuilding or replacement of sections of the Wishkah Gravity Supply Pipe Line, in connection with the water system. The project involves the reconstruction of approximately 20,300 lin. ft. of 28-inch inside diameter pipe line, together with all appurtenances to such. Monthly payments will be made in warrants against the city water fund. Plans obtainable from City Controller on deposit of \$15, returnable.

SEWERS AND SEWAGE DISPOSAL PLANTS

GONZALES, Monterey Co., Cal.—Until April 17, 3 P. M., bids will be received by Enos DeCarll, secretary, Gonzales Sanitary District, to construct sewer mains, lateral sewers, etc., as follows:

(1) SEWER MAINS, OUTFALL AND SEPARATE SLUDGE DIGESTION PLANT, the principal items being as follows:

- (1) 600 lin ft. 8-in. sewer;
- (2) 2400 lin. ft. 10-in. sewer;
- (3) 10,700 lin ft. 12-in. sewer;
- (4) 21 manholes;
- (5) 450 cu. yds. excavation for treatment plant structures;
- (6) 125 cu. yds. concrete;
- (7) 11,000 lbs. reinf. steel;
- (8) clarifier equipment, sludge pump, pumphouse, etc.

The district has voted \$40,000 of general obligation bonds bearing 5% interest to care for the cost of this work and incidental expenses, and the successful bidder will be expected to arrange for sale of those bonds.

Plans and specifications for this work may be secured from the engineers by making a deposit of \$10, one-half of which will be refunded upon the return of the plans within ten (10) days of letting.

(2) LATERAL SEWERS, the principal items being as follows:

- 5,746 lin. ft. 8-in. sewer;
- 11,802 lin ft. 6-in. sewer;
- 516 wye branches;
- 55 manholes; return to 5 manholes.

Lateral sewers to be constructed under 1911 Act. Plans and specifications for lateral sewers may be secured from the engineers by making a deposit of \$10, one-half of which will be refunded upon return of plans within ten (10) days of letting. Plans obtainable from Burns-McDonnell-Smith Engineering Co., 455 Western Pacific Bldg., 1031 S-Broadway, Los Angeles, or from Cozzens & Davies, engineers, County Courthouse, Salinas

SANTA CRUZ Santa Cruz Co., Cal.—W. H. Oliver, Soquel Ave. and San Jose Road, Santa Cruz, engineer for the Capitola Sanitation District, is preparing plans for sewer system to include two extensions of two trunk line sewers to serve territory north of the Santa Cruz-Watsonville Highway and up Noble Gulch to the highway. The system will cost in excess of \$50,000. Fund will be voted to finance the work.

LOS ANGELES, Cal.—Until 1:30 P. M., April 8, bids will be received by the Los Angeles County Sanitation District No. 2, 202 Law Bldg., 139 N Broadway, for furnishing of equipment for an activated sludge sewage treatment plant delivered at the plant site, near the intersection of Weston and Machado Sts., as follows:

- (1) Two 4-in. or larger horizontal centrifugal sewage pumps each capable of delivering from 300 to 700 gallons per minute at maximum speed; each with a direct connected, 440-volt, 3-phase, 50-cycle slip ring motor complete with all appurtenant equipment;
- (2) One 4-in. or larger horizontal centrifugal sewage pump capable of delivering from 300 to 700 gallons per minute at maximum speed, with a direct connected, 440-volt, 3-phase, 50-cycle slip ring motor complete with all appurtenant equipment;
- (3) One horizontal centrifugal water circulating pump capable of circulating approximately 50 gallons per minute, with a direct connected, 440-volt, 3-phase, 50-cycle induction motor complete with all appurtenant equipment;
- (4) One gas pump for boosting 100 cu. ft. per minute of gas at atmospheric pressure to 4-lb. gauge pressure, with a direct connected, 440-volt, 3-phase, 50-cycle induction motor complete with all appurtenant equipment.

- (5) One gas pump for boosting 100 cu. ft. per minute of gas at atmospheric pressure to 1-lb. gauge pressure, with a direct connected, 440-volt, 3-phase, 50-cycle induction motor complete with all appurtenant equipment.

Plans and specifications may be obtained from the Chief Engineer, A. K. Warren, 202 Law Bldg., 139 N Broadway, Los Angeles. A. S. Soule, secretary.

SAN FRANCISCO—Until April 15, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to construct addition to the Baker and Pierce Street Outfall Sewer. Estimated cost \$15,000. Lump sum bids will be received. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from the Bureau of Engineering, 3rd floor, City Hall, on deposit of \$10, returnable.

PLEASANTON, Alameda Co., Cal.—Consideration is being given by the town trustees to a bond issue to finance construction of a sewage dis-

posal system, the municipality having outgrown the present system.

SAN BRUNO, San Mateo Co., Cal.—City council declares intention (1234 to sewer El Camino Real bet. San Felipe Ave. and Crystal Springs Ave. involving 6-in. and 4-in. vit. pipe sanitary sewer with 8-in. wye branches 8 brick manholes. 1911 Act. Bond Ac 1915. Hearing April 22. Emil A. Bohn chief clerk. R. A. Klassen, city engineer.

SAN LUIS OBISPO, Cal.—City council calls election for April 6 to vote bonds of \$18,000 to construct digester mechanism and other mechanical equipment, distributing mains and other additions to the sewage disposal plant. Callie M. John is city clerk and Leon Moore, City engineer.

STOCKTON, San Joaquin Co., Cal.—County supervisors reject bids to construct sewer at San Joaquin county fair grounds and new bids will be asked at once. Julius Manthey is county surveyor.

WATER WORKS

GRASS VALLEY, Nevada Co., Cal.—City Superintendent of Public Works George F. Bennetts is making surveys to replace the Alta Hill water line with a view to replacing same. Estimates of cost will be submitted to the city trustees shortly.

SAN LUIS OBISPO, Cal.—R. E. Burund, 806 Rodeo Dr., Beverly Hills, at \$12,290 submitted low bid to U. S. Property and Disbursing Office for California, State Capitol, Sacramento, for installation of cast iron water distributing system to replace existing distributing system at the National Guard Training Camp at San Luis Obispo. Jas. Currie, Burlingame, at approx. \$13,500 next low bidder. Project involves approx. 12,500 ft., 10-in., 6-in. and 4-in. c. i. pipe and gate valves. Taken under advisement.

OAKLAND, Cal.—Rolph, Mills Co., 523 Market St., San Francisco, at \$14 per ft. awarded contract by East Bay Municipal Utility District to furnish 50,000 ft. of 3/4-in. seamless steel tubing. A complete list of bids was published in our issue of March 20.

FRESNO, Fresno Co., Calif.—City Clerk Harry Foster will ask bids at once to furnish and install three deep well turbine pumps for municipal water department. Pumps to be installed at Fresno and O Sts.; estimated cost, \$7,500. Specifications on file in office of clerk.

SEATTLE, Wash.—Until April 10, 10 A. M., bids will be received by W. D. Brennan, city purchasing agent, 511 County-City Bldg., to furnish two Gould triplex, double-action pumps 10x12-inch, direct-connected to 90-hp. Pelton water motors. Specifications obtainable from above.

OAHU, Hawaii — See "Government Work and Supplies," this issue. Bureau of Yards and Docks, Navy Department, Washington, D. C., will ask bids in the immediate future for the development work in connection with the Naval Ammunition Depot at Oahu, Hawaii, involving the erection of 131 buildings, approximately 1 1/2 miles of railroads, 1 1/4 miles of paved road and electrical, telephone and water supply systems. Bidding date for this project will appear in Daily Pacific Builder in subsequent issues.

LOS ANGELES, Cal.—Contracts awarded by city purchasing agent, Thomas Oughton, for furnishing

wrought steel galvanized pipe under specifications No. 2462, were awarded as follows: Steel Inc., items 1, 2, 3 and 4 at \$3073; Smith, Booth, Usher, items 5, 6 and 7 at \$2108.50. The items were: (1) 250 lengths of 3/4-in.; (2) 400 1/2-in.; (3) 200 lengths of 2 1/2-in.; (4) 300 lengths of 2 1/2-in.; (5) 90 lengths of 2 1/2-in.; (6) 100 lengths of 3-in.; (7) 50 lengths of 4-in.

FRESNO, Fresno Co., Cal.—Until April 10, 10:30 A. M. bids will be received by H. S. Foster, city clerk, to furnish and install:

One Deep Well Turbine Pump, 700 1. P. M., 150 ft. head, with Air line and gauge all installed; with direct connected or built in double and ventilated or equal. Motor of required HP, 440 Volt, 3 phase, 60 cycle, 1750 1. P. M. to start directly across line; with G. E. Magnetic Switch or equal, installed complete less electric wiring.

The bids submitted on the above shall be made subject to the condition that the successful bidder shall purchase from the City one 8-inch Byron-Jackson Centrifugal Pump, direct connected to 1-60 HP. G. E. motor, which may be seen at Station No. 15.

Also on Two (2) Deep Well Turbine Pumps, 700 1. P. M., 140 ft. head, with Air lines and gauges all installed, with direct connected or built in double end ventilated, or equal. Motor of required HP, 440 volt 3 phase, 60 cycle, 1750 R. P. M. to start directly across line; and with G. E. Magnetic Switch or equal, installed complete less electric wiring.

The bids submitted on the 2 pumps above mentioned shall be made subject to the condition that the successful bidder will purchase from the City one 8-inch Byron-Jackson Centrifugal Pump, direct connected to 1-100 HP. Westinghouse C. C. L. Motor which may be seen at Station No. 21.

Certified check 10% payable to city required with bid. Specifications obtainable from city clerk.

PLAYGROUNDS & PARKS

ALAMEDA, Alameda Co., Cal.—Until April 7, 8 P. M., bids will be received by W. E. Varcoe, city clerk, to erect 400 lin. ft. of chain link fence 3 ft. high at Lincoln Park. Certified check 10% payable to city required with bid. Specifications on file in office of clerk.

MARTINEZ, Contra Costa Co., Cal.—City council has instructed City Engineer Ben Greene to make preliminary surveys and submit estimates of cost for two municipal tennis courts on city property at Pacheco Blvd. and Brown St.

SAUSALITO, Marin Co., Cal.—Until April 11, 8 P. M., bids will be received by S. G. Ratto, clerk, Sausalito School District, to improve playground area of the Central School yard, Litho and Calendonias Streets, and at the South School yard, North and Third Streets. Certified check or bid bond 10% payable to Board of Trustees of district required with bid. Specifications obtainable from clerk.

STREETS AND HIGHWAYS

SONOMA COUNTY, Cal.—Until April 15, 12 noon, (to be opened 1:30 P. M.), bids will be received by Geo. P. Sanborn, county clerk, for asphaltic oil surfacing on 6.9 miles of road in the Fourth Supervisor District, involving:

- (a) 420 barrels light oil;
 - (b) 140 tons heavy oil;
 - (c) 1750 tons rock and screenings.
- Above to be placed on Grant St. extension, 0.5 miles; Pitch Mountain rd.

1.0 miles; Skaggs Rd. from Dutch Creek to Broad bridge, 1.4 miles; Alexander Valley Hill Rd., 3.5 miles; Mills St. extension, 0.5 mile.

Specifications obtainable from E. A. Peugh, county surveyor.

LAKE COUNTY, Calif.—Chas. Kuppinger, Lakeport, at \$1,314 submitted lowest bid to State Highway Commission, Sacramento, to treat with light fuel oil as a dust palliative, 10.9 miles between Upper Lake and Lucerne. Following is a complete list of bids: Chas. Kuppinger, Lakeport..... \$1,314.00
D. McDonald, Sacramento..... 1,584.10
Basalt Rock Co., Napa..... 1,686.30

SANTA CRUZ COUNTY, Cal.—Edw. A. Peres, Richmond, submitted low bid to John H. Skaggs, district engineer, State Highway Commission, San Francisco, to treat with light fuel oil as a dust palliative, 14 miles between California Redwood Park and Waterman Switch Back, involving 1,800 bbls.

Following is a complete list of bids: Edward A. Peres, Richmond, \$1,80 per bbl, \$3,240.
C. W. Wood, Stockton, \$1.85 per bbl, \$3,330.
Jack Casson, Hayward, \$2.14 per bbl, \$3,852.

Edward M. Dearborn, Redwood City, \$2.15 per bbl, \$3,870.
Basalt Rock Co., Napa, \$2.25 per bbl, \$4,050.
Granite Const. Co., Watsonville, \$2.35 per bbl, \$4,230.
J. P. Holland, San Francisco, \$3.00 per bbl, \$5,400.
All bids held under advisement.

YUBA AND NEVADA COUNTIES, Cal.—Until April 13, 2 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, State Office Bldg., Sacramento, to treat with light fuel oil as a dust palliative, 12.4 miles in Yuba and Nevada Counties, between Seven Mile House and Rough and Ready and in Nevada, Yuba and Sierra Counties, 20.7 miles between Nevada City and Downville. Specifications obtainable from district engineer.

MENDOCINO CO., Cal.—Basalt Rock Co., Napa, and C. F. Frederickson & Sons, Lower Lake, submitted identical bids at \$2.10 per bbl. to J. H. Skaggs, district engineer, State Highway Commission, San Francisco, to treat with light fuel oil as a dust palliative, 38 miles between McDonald and Flynn Creek, involving 4,000 barrels.

Following is a complete list of bids: Basalt Rock Co., Napa, \$2.10 per bbl, \$8,400.
C. F. Frederickson & Sons, Lower Lake, \$2.10 per bbl, \$8,400.
Jack Casson, Hayward, \$2.16 per bbl, \$8,640.

C. W. Wood, Stockton, \$2.25 per bbl, \$9,000.
Peres & Gatto, Richmond, \$2.41 per bbl, \$9,640.
E. M. Dearborn Co., Redwood City, \$2.55 per bbl, \$10,200.
All bids held under advisement.

SANTA ROSA, Sonoma Co., Cal.—Until April 15, 12 noon (to be opened 1:30 P. M.), bids will be received by Geo. P. Sanborn, county clerk, for asphaltic oil surfacing on 7.4 miles of road in the Second Supervisor District, involving:

- (1) 44 barrels light oil;
 - (2) 148 tons heavy oil;
 - (3) 1110 tons rock;
 - (4) 750 tons screenings.
- Above to be placed on the following roads: Liberty road, 1.2 miles; Washoe road, 1.4 miles; Mills road, 1.2 miles; Trenton road, 2 miles; Pleasant Hill road, 1.6 miles.
- Specifications obtainable from E. A. Peugh, county surveyor.

MENDOCINO COUNTY, Cal.—Chigrlis & Sutsos, 2211 18th St., San Francisco, at \$11,297.60 awarded contract by State Highway Commission, Eureka, for grading 0.6 mile between Devoy Grove and the north boundary.

PLACER & EL DORADO COUNTIES, Cal.—Until April 13, 2 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, State Office Bldg., Sacramento, to treat with light fuel oil as a dust palliative, 31.9 miles between Auburn and Placerville and between El Dorado and the Cosumnes River. Specifications obtainable from the district engineer.

BUTTE AND PLUMAS COUNTIES, Cal.—Until April 13, 2 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, State Office Bldg., Sacramento, to treat with light fuel oil as a dust palliative, 47.3 miles between Miner's Ranch and Quincy. Specifications obtainable from the district engineer.

OAHU, Hawaii — See "Government Work and Supplies," this issue. Bureau of Yards and Docks, Navy Department, Washington, D. C., will ask bids in the immediate future for the development work in connection with the Naval Ammunition Depot at Oahu, Hawaii, involving the erection of 131 buildings, approximately 12 1/2 miles of railroads, 14 1/2 miles of paved road and electrical, telephone and water supply systems. Bidding data on this project will appear in Daily Pacific Builder in subsequent issues.

HAYWARD, Alameda Co., Cal.—Until April 15, 8 P. M., bids will be received by M. B. Templeton, city clerk, to widen Castro St. bet. A and C Sts., and A St. bet. Castro and C Sts., involving:

- (1) 1537 lin. ft. concrete curb to be removed;
- (2) 1347 sq. ft. concrete gutter to be removed;
- (3) 4570 sq. ft. concrete sidewalk to be removed;
- (4) 1530 lin. ft. concrete curb to be constructed;
- (5) 5444 sq. ft. concrete gutter to be constructed;
- (6) 4735 sq. ft. concrete sidewalk to be constructed;
- (7) 1910 sq. ft. asphaltic concrete paving to be constructed.
- (8) 1715 lin. ft. conduit to be laid;
- (9) 3500 lin. ft. cable to be installed;
- (10) 11 electroliter standards to be moved and reconnected;
- (11) 1 traffic signal standard to be moved and reconnected;
- (12) 73 lin. ft. cast iron and concrete drain culvert to be moved and reset.
- (13) 1 catchbasin and inlet to be moved and reset.

Certified check 10% payable to city required with bid. Plans obtainable from city clerk and from Jesse B. Holly, city engineer, on deposit of \$5, returnable.

PLUMAS COUNTY, Cal.—As previously reported, bids will be received April 22 by State Highway Commission to grade 1.4 miles between Spanish Creek and 1 mile south of Keddie. Project involves:

- (1) 15 acres clearing and grubbing
- (2) 1500 cu. yds. roadway excavation without class;
- (3) 459,000 sta. yds. overhaul;
- (4) 1320 cu. yds. structure excavation;
- (5) 50 cu. yds. class A Portland cement concrete (structures);
- (6) 4400 lbs. bar reinf. steel (structures);
- (7) 750 lin. ft. 18-in. corr. metal pipe;
- (8) 180 lin. ft. 24-in. corr. metal pipe;
- (9) 80 lin. ft. 30-in. corr. metal pipe;

- (10) 80 lin. ft. 36-in. corr. metal pipe;
- (11) 670 cu yds. rubble masonry retaining wall;
- (12) 71 stations finishing roadway;
- (13) 30 each, monuments complete in place.

The state will furnish corrugated metal pipe.

TULARE COUNTY, Calif.—As previously reported, bids will be received April 22 by State Highway Commission to grade and pave with asphalt concrete 12.1 miles between Goshen and Kingsburg. Project involves:

- (1) 50 each, trees removed and disposed of;
- (2) 42,500 cu. yds. roadway excavation without class;
- (3) 73,000 sta. yds. overhaul;
- (4) 200,200 cu. yds. imported borrow;
- (5) 1490 cu. yds. struc. excavation;
- (6) 26,000 sq. yds. subgrade for pave.;
- (7) 390 cu. yds. class A Portland cement concrete (struc.);
- (8) 43,400 lbs. bar reinf. steel (struc.);
- (9) 54,800 tons asphalt concrete;
- (10) 400 tons oil treated crushed gravel or stone surfacing;
- (11) 77,700 sq. yds. asp. paint binder;
- (12) 4025 blbs. fuel oil (shoulders);
- (13) 2020 lin. ft. 18-in. corr. metal pipe;
- (14) 60 lin. ft. 30-in. do.;
- (15) 30 lin. ft. 36-in. do.;
- (16) 100 cu. yds. drainage sumps;
- (17) 14.4 miles move and reset property fence;
- (18) 1000 cu. yds. Portland cement concrete removed from existing pavement and structures;
- (19) 6000 tons crusher run base;
- (20) 1500 lin. ft. laminated timber guard rail;
- (21) 633 stations finish roadway;
- (22) 79 each, monuments, complete in place.

The state will furnish corrugated metal pipe.

TEHAMA COUNTY, Cal.—As previously reported, bids will be received by State Highway Commission April 22 to surface with bituminous treated crushed gravel or stone surfacing, 7.3 miles between Dale's Ranch and Payne's Creek. Project involves:

- (1) 3200 cu. yds. imported borrow;
- (2) 19,000 cu. yds. untreated crushed gravel or stone surfacing;
- (3) 450 tons cut-back asphalt, grade E;
- (4) 7.3 miles mixing cut-back asphalt and surfacing material;
- (5) 1290 M gallons water applied to surfacing and shoulders;
- (6) 384 stations finishing roadway.

WILLOW GLENN, Santa Clara Co., Cal.—City trustees have started proceedings to improve approximately 2 miles of streets involving an expenditure of \$158,000.

SANTA ROSA, Sonoma Co., Cal.—Until April 15, 12 noon, (to be opened 1:30) bids will be received by Geo. P. Sanborn, county clerk, for asphaltic oil surface on 31.7 miles of road in Third Supervisorial District, involving:

- (a) 1870 blbs. light oil;
- (b) 640 tons heavy oil;
- (c) 4755 tons rock;
- (d) 3170 tons screenings.

Roads to be surfaced are Ludwlg Ave., 2.5 mi.; Wright Ave., 2.5 mi.; Todd Rd., 1.7 mi.; Petrifed Forest Rd., 7.5 mi.; Mark West Station Rd., 4.5 mi.; Windsor Rd., 2 mi.; Mountain View Ave., 1.7 mi.; Ballou Rd., 2.6 mi.; Wilson Ave., 1.6 mi.; Rincon Rd., 3.5 mi.; McMillan Ave., 0.6 mi.; Palos Verde Lodge, 1 mi. Specifications obtainable from E. A. Feugh, county surveyor.

CAKLAND, Cal.—Bids will be asked at once by City Port Commission, 424 Oakland Bank Bldg., for grading warehouse site at the Outer Harbor Ter-

minal, involving 5,000 cu. yds. Specifications obtainable from above.

SANTA ROSA, Sonoma Co., Cal.—Until April 15, 12 noon, (to be opened 1:30) bids will be received by Geo. P. Sanborn, county clerk, for 11.5 miles of asphaltic oil surfacing in the Fifth Supervisorial District, involving:

- (a) 690 blbs. light oil;
- (b) 230 tons heavy oil;
- (c) 1725 tons rock;
- (d) 1190 tons screenings.

Roads to be surfaced are Monte Rio to Austin Creek; 2.5 mi.; Armstrong Wood road, 2 mi.; Hulbert Creek Rd., 1 mi.; Duncan to Markham, 3 mi.; Guernwood to North Wood, 3 mi. Specifications obtainable from E. A. Feugh, county surveyor.

SANTA ROSA, Sonoma Co., Cal.—Until April 15, 12 noon, (to be opened 1:30) bids will be received by Geo. P. Sanborn, county clerk, for asphaltic oil surfacing 5.5 miles on roads in Fifth Supervisorial District, involving:

- (a) 330 blbs. light oil;
- (b) 110 tons heavy oil;
- (c) 825 tons rock;
- (d) 550 tons screenings.

Roads to be surfaced are New Occidental, 2 miles; Valley Ford, 0.5 mi.; Bay to Salmon Creek, 2 mi. Specifications obtainable from E. A. Feugh, county surveyor.

E. Jameson, fence contractor and dealer in fence wire and posts, is prepared to furnish bids on such construction. Bids will be submitted but charges will be made for any advance work in preparing such estimates and costs for sub-bid propositions. Address E. Jameson, P. O. Box 853, Sacramento.

SAN JOSE, Santa Clara Co., Cal.—John Doyle, 608 North Tenth Street, San Jose, awarded contract by city council (5306) to improve Empire Alley bet. First and San Pedro Streets, involving grading, 5-inch cement concrete pavement, cement concrete sump basin covered by two cast iron 17-in. top gratings, 8-in. vitrified pipe drain, cement concrete walks, curbs and gutters, 6-in. cement concrete driveways.

MONTEREY, Monterey Co., Cal.—Until April 7, 7 P. M., bids will be received by Clyde A. Dorsey, city clerk, (3085) to improve Teresa Street bet. Monroe and Clay Sts., and Garrett St. from Clay to High St. and from High St. to the U. S. Military Reservation, involving grading, 2½-in. asphalt concrete base course with 1½-in. asphaltic concrete surface, concrete curbs, gutters and walks, twenty-two 4-inch house connection sewers. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

ALAMEDA, Alameda Co., Cal.—Bids will be asked shortly by the Federal Government for grading the 15-acre site for the projected federal base on Government island to house the district headquarters of the U. S. Coast Guard, U. S. Bureau of Public Roads and the U. S. Forest Service. Bids for this construction will probably be received by the U. S. Bureau of Public Roads, 461 Market Street, San Francisco, and the work carried on under the supervision of C. C. Morris, senior engineer of that bureau.

WASHOE COUNTY, Nevada.—As previously reported, bids will be received April 8, by State Highway Commission, Carson City, to widen an surface existing concrete base with asphaltic concrete on 9.16 miles highway in Washoe County from Wash Summit to Huffakers on the Reno Carson City Road, involving:

- 53,400 cu. yds. roadway excavation;
- 1,850 cu. yds. structure excavation;
- 25,200 cu. yds. selected borrow;
- 132,192 sta. yds. overhaul;
- 32,704 sq. yds. prepare subgrade for paving;
- 18,681 sq. yds. prepare subgrade for widening;
- 3 demolish headwalls and (5) demolish siphons;
- 150 cu. yds. A and 43 cu. yd. B complete;
- 284 ft. 15-in., 660 ft. 18-in., 160 ft. 24-in. and 12 ft. 30-in. corr. pipe;
- 232 ft. 24-in. and 150 ft. 18-in. corr. siphon;
- 140 ft. 15-in. and 100 ft. 24-in. vit. pipe;
- 144 ft. remove corr. pipe;
- 202 cu. yds. remove concrete;
- 566 ft. reset and remove corr. pipe;
- 78 corr. pipe and 8 vit. pipe cut vert. extensions;
- 270 cu. yds. cement rubble masonry;
- 1,504 ft. timber guard rail;
- 56 monuments, 2 posts for F. J. markers;
- 9 mi. finish roadway, 674 ft. fencing;
- 10 remove stamps, 6573 ft. re construct fence;
- 1 wood divers box, 4 later headgates;
- 5,200 sq. yds. demolish concrete paving;
- 5,000 lin. ft. enlarge expansion joints;
- 13,000 tons asphalt concr. base course;
- 10,500 tons asphalt concr. levelin course;
- 13,000 tons asphalt concrete wearin surface;
- 96,683 ft. side forms;
- 9.16 miles construct shoulders. S. C. Durkee, State Engineer.

MINERAL COUNTY, Nev.—Isbe Construction Co., Carson City, Nev. awarded contract by State Highway Department at \$208,770.05 to construct

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Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;
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a portion of the State Highway System in Mineral County, from Dutch Creek to Schurz, Routes 3 and 1-A, Sections E, F, and G, a length of 23.21 miles, including: 1,600,000 cu. yds. roadway excav. No. 1; 96,600 cu. yds. roadway excav. No. 2; 39,303 cu. yds. selected borrow excav. in place; 242,580 yd. sta. overhaul; 23.50 miles, pre-cure subgrade and shoulders; 1434 cu. yds. structure excav.; 66,900 cu. yds. crushed rock or crushed gravel surface in place; 1200 cu. yds. crushed rock or crushed gravel in stockpile; lump sum, furnishing water equipment; 4353 M. gals. applying water; 141 cu. yds. class B concrete; 2384 lin. ft. 18-in., 1022 lin. ft. 24-in. & 1144 lin. ft. 36-in. corr. metal pipe in place; 24 lin. ft. 24-in. and 32 lin. ft. 36-in. corr. metal pipe asph. dipped in place; 340 cu. yds. cement rubble masonry; 148 monuments; 3 furnish and install posts for fed. aid markers; 23.50 miles finishing roadway; 1 demolish reinf. concrete culverts; 2000 lin. ft. removing fence; 1785 lin. ft. constructing fence.

MERCED, Merced Co., Cal.—Until April 14, 11 a. m., bids will be received by P. J. Thornton, county clerk, to furnish and deliver during the calendar year of 1931 not less than 15,000 nor more than 30,000 barrels of road oil, processed or unprocessed, the pure asphalt bitumen content to be not less than 53 per cent or more than 70 per cent. Certified check \$500 required. Specifications obtainable from W. E. Bechesen, county surveyor.

MENLO PARK, San Mateo Co., Cal.—City trustees declare intention (31-1) to improve Oak Grove and Cherry Avenues, Laurel and Mills Streets, and Glenwood Ave., involving:

- (1) 3,000 cu. yds. excavation;
 - (2) 1,200 cu. yds. embankment;
 - (3) 40,620 sq. ft. 1½-in. Emulsified asphalt, pave, on 4-in. rock base;
 - (4) 30,000 sq. ft. resurfacing;
 - (5) 7,193 lin. ft. concrete curb;
 - (6) 72 driveway entrances;
 - (7) 6 part circle culverts;
 - (8) 390 lin. ft. sewer connections;
 - (9) 44,825 sq. ft. concrete sidewalks.
- 1931 Act. Bond Act 1915. Estimated cost \$20,000. Hearing April 14. Fannie I. Kurtz, city clerk. Bert J. Mehl, city engineer.

MONTEREY, Monterey Co., Cal.—Peninsula Paving Co., Standard Bldg., San Francisco, at \$469,258 awarded contract by State Highway Commission to grade and pave with Portland cement concrete 11.1 miles between two miles north of Salinas and north boundary. Complete list of unit bids of the nine lowest bidders on this project were published in the issue of March 29.

CALIFORNIA—The California State Highway Department has published an announcement of interest to contractors, as follows:

"Revised forms for Contractors' Statement of Experience and Financial Condition will be mailed within the week to all contractors who are on the qualified list for plans, specifications and proposal forms for state highway and local projects. These revised forms provide for the affidavit of accountant to be made by a Certified Public Accountant, but, in those cases where the contractor does not desire to qualify for above \$50,000, the accountant's affidavit will not be required. Effective April 20, 1931, no names will be retained on the qualified list except those who have filed the revised form statement or whose present statement shows the financial condition as of a date not prior to Dec. 31, 1930.

"Accompanying the statement forms will be a limited supply of forms to be used when requesting plans and specifications. On this latter form

there is a provision for a supplemental statement of contracts covering the period subsequent to the date of the filing of the Contractor's Statement of Experience and Financial Condition. This supplemental statement will be required in all cases."

SAN FRANCISCO—Until April 15, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve west half of 36th Ave. bet. Vicente St. and Sloat Blvd. Est. cost \$14,000. Project involves:

- (1) 1886 lin. ft. unarmored conc. curb;
- (2) 12960 sq. ft. 1-course conc. sidewalk;
- (3) 100 lin. ft. 6-in. V.C.P. side sewer;
- (4) 2 brick catchbasins;
- (5) 107 lin. ft. 10-in. V.C.P. culverts;
- (6) 35 lin. ft. 15-in. V.C.P. sewer;
- (7) 42,428 sq. ft. asph. conc. pavement 2-in. asph. conc. wearing surface on 6-in. class F concrete base.

Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN FRANCISCO—Until April 15, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve west half of 36th Ave. bet. Judah and Noriega Sts.; estimated cost, \$17,000. Project involves:

- (1) 2542 lin. ft. unarmored conc. curb;
- (2) 15,391 sq. ft. 1-course conc. sidewalk;
- (3) 3 brick catchbasins;
- (4) 105 lin. ft. 10-in. V.C.P. culverts;
- (5) 35 lin. ft. 15-in. V.C.P. sewer;
- (6) 35 lin. ft. 18-in. do;
- (7) 160 lin. ft. 6-in. V.C.P. side sewers;
- (8) 55,340 sq. ft. asph. conc. pavement, 2-in. asph. conc. wearing surface on 6-in. class F concrete base.

Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN FRANCISCO—Until April 15, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve 37th Ave. bet. Vicente and Wawona Sts., and the crossing of 37th Ave. and Wawona. Est. cost \$5,000. Project involves:

- (1) 647 lin. ft. unarmored conc. curb;
- (2) 2954 sq. ft. 1-course conc. sidewalk;
- (3) 3 brick catchbasins;
- (4) 105 lin. ft. 10-in. V.C.P. culverts;
- (5) 40 lin. ft. 6-in. V.C.P. side sewer;
- (6) 14,417 sq. ft. asph. conc. pavement, 2-in. asph. conc. wearing surface on 6-in. class F concrete base.

Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN LUIS OBISPO, Cal.—Cornwall Const. Co., Santa Barbara, at \$31,353-15 awarded contract by city council (346) to improve Pacific St from Santa Rosa St. to Higuera St. Project involves: 156,600 sq. ft. 6-in. to 8-in. concrete pavement; 29,300 sq. ft. walk; 3893 ft. curb.

VENTURA COUNTY, Cal.—Merritt-Chapman & Scott Corp., San Pedro, at \$364,327.15 using untreated timber, awarded contract by U. S. Bureau of Public Roads for grading Section A of Route 76, Maricopa-Ventura National Forest Highway in the Santa Barbara National Forest, 6.246 miles in length. Complete list of unit and total bids published in issue of March 14.

TEHAMA & SHASTA COUNTIES, Cal.—C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, San Francisco, has recommended to Washington, D. C., the award of contract to Irving L. Ryder, 205 Almaden Ave., San Jose, at \$131,281 to construct culvert on Section E and apply oil and processing the oil treated existing crushed rock surfacing on Sections A, B, C1, S2, C3, C4, D and E of Route 1, the Loop Route, Lassen-Volcanic National Park. Complete list of total and units bids published in issue of March 25.

LOS ANGELES CO., Cal.—Gibbons & Reed, Burbank, at \$48,749 awarded contract by State Highway Commission to grade and oil 7.5 miles between Bailey's Ranch and Neenach School.

HUMBOLDT COUNTY, Cal.—As previously reported, bids will be received April 22 by State Highway Commission to improve 10 miles of highway between Loleta and one-half miles south of Eureka, 5.3 miles to be surfaced with bituminous treated crushed gravel or stone and 4.7 miles to be widened with bituminous treated crushed gravel or stone borders. Project involves:

- (1) 15,600 tons bituminous treated crushed gravel or stone (surfacing and borders);
 - (2) 9460 tons untreated crushed gravel or stone (shoulders);
 - (3) 2260 tons bar run gravel (ditch backfilling);
 - (4) 475 M gallons water applied to shoulders;
 - (5) 300 each, timber guide posts and culvert markers;
 - (6) 531 stations finishing roadway.
- The state will furnish timber guide posts and culvert markers.

SUTTER CO., Cal.—State Highway Commission, April 1 rejected bids received March 2 to grade and pave with Portland cement concrete 0.3 mi. near county hospital in Sutter County. Bids were: Hemstreet & Bell, Marysville, \$9,439.80; N. W. Ball, Porterville, \$9,647.30; C. M. Wood, Stockton, \$9,802.70.

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Ten Years of Uniformly Satisfactory Experience in High

Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

Sold by Representative Dealers Everywhere

SANTA CRUZ CO., Cal.—Healy-Tibbitts Const. Co., 64 Pine St., San Francisco, at \$207,483 submitted low bid April 1 to State Highway Commission to improve 6.5 miles of highway between Waterman Switch-Back and Saratoga Gap, 3.5 miles to be graded and surfaced with crusher run base and the entire length to be paved with bituminous macadam. Complete list of bids follows:

Healy-Tibbitts Const. Co., San Francisco	\$207,483
Frederickson and Watson and Frederickson Bros., Oakland	212,838
O. A. Lindberg, Stockton	222,152
D. G. Monroe, Los Angeles	228,200
Granite Const. Co., Watsonville	232,320
Granfield, Farrar & Carlin, San Francisco	241,732
G. O. Pollock Co., Sacramento	245,360
F. C. Cuffe, San Rafael	259,413
Robinson Roberts Co., L. A.	265,924

Bids held under advisement.

SANTA BARBARA COUNTY, Cal.—Basch Bros., Torrance, at \$118,066 submitted low bid April 1 to State Highway Commission to grade and pave with Portland cement concrete 3.7 miles between Wigmore and Los Alamos. Complete list of bids follows:

Basch Bros., Torrance	\$118,066
Corwall Const. Co. Santa Barbara	122,229
Macco Const. Co., Clearwater	125,235
W. A. Dontanville, Watsonville	138,063

Bids held under advisement.

SAN DIEGO COUNTY, Cal.—Matich Bros., Elsinore, Calif., at \$42,565 submitted low bid April 1 to State Highway Commission to grade and pave with Portland cement concrete, 1.5 miles at Bostonia. Complete list of bids follows:

Matich Bros., Elsinore	\$42,565
D. R. Dennis, San Diego	43,659
Griffith Co., Los Angeles	43,694
B. J. Carroll, San Diego	44,817
Basch Bros. Const. Co., Torrance	45,447
Sander Pearson, Santa Monica	48,400

Bids held under advisement.

OAKLAND, Cal.—Until April 9, 12 noon, bids will be received by Frank C. Merritt, city clerk, to sewer portions of Hampton Road SW of Estates Drive, a certain path and sewer reserve in "Montclair Acres" Tract, involving:

- (1) 2113 lin. ft. 8-in. pipe sewer;
- (2) 10 manholes;
- (3) 3 8-in. lampholes;
- (4) 7 12-in. lampholes;
- (5) 48 Y branches.

1911 Act. Certified check 10 per cent payable to city required with bid. Plans on file in office of clerk. Walter N. Frickstad, city engineer.

TUOLUMNE COUNTY, Cal.—Until April 13, 2 P. M., bids will be received by R. E. Pierce, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, to construct hogtight property fence and install new property gates in Tuolumne county between 14 miles west of Keystone and Keystone.

TULARE COUNTY, Cal.—Until April 22, 2 P. M., bids will be received by State Highway Commission to grade and pave with asphalt concrete 12.1 miles between Goshen and Kingsburg.

HUMBOLDT COUNTY, Cal.—Until April 23, 2 P. M., bids will be received by State Highway Commission to improve 16 miles of highway between Leta and one-half mile south of Eureka, 5.3 miles to be surfaced with bituminous treated crushed gravel or stone and 4.7 miles to be widened with bituminous treated crushed gravel or stone borders.

PLUMAS COUNTY, Cal.—Until April 22, 2 P. M., bids will be received by State Highway Commission to grade 1.4 miles between Spanish Creek and 1 mile south of Keddie.

TEHAMA COUNTY, Cal.—Until April 22, 2 P. M., bids will be received by State Highway Commission to surface with bituminous treated crushed gravel or stone surfacing, 7.3 miles between Dales Ranch and Paynes Creek.

EUREKA, Humboldt Co., Cal.—As previously reported, bids will be received April 14, 2 P. M., by Fred M. Kay, County Clerk, to surface approximately 13.5 miles of county roads throughout the county, involving:

- (a) 150,000 sq. ft. surfacing;
- (b) 100,000 gal. fuel oil;
- (c) Specifications provide for:
 - Fuel Oil, 1/4 gallon per sq. yd.
 - Emulsion, 1/2 gallon per sq. yd.
 - Base Rock, 3/4" to 1 1/2" -50% per sq. yd.
 - Emulsion, 3/4 gal. per sq. yd.
 - Second course rock 1/2" to 3/4"-15% per sq. yd.
 - Emulsion, 3/4 gal. per sq. yd.
 - Third course sand, 10% per sq. yd.

Specifications obtainable from Frank E. Kelly, county surveyor. Certified check 5% required with bid.

SONORA, Tuolumne Co., Cal.—Bids will be asked shortly by county supervisors to construct approx. 7 miles of roads in various sections of the county. Details will be published shortly.

LAKE COUNTY, Cal.—Basalt Rock Co., Napa, at \$5040 awarded contract by State Highway Commission to treat with light fuel oil as dust palliative 25 miles between Middleton and Ukiah-Tahoe Highway.

MENLO PARK, San Mateo Co., Cal.—City trustees have started proceedings to pave six streets east of El Camino Real and the Southern Pacific R. R. tracks. A hearing will be held April 14. Bert J. Mehl is city engineer.

DOUGLAS COUNTY, Nev.—Isbell Const. Co., Carson City Nev., awarded contract by State Highway Department at \$74,846.68, for reconstruction of a portion of the state highway system in Douglas County bet. 5 miles east of Holbrook and 2 miles north of Carter's and 4 miles south of Gardnerville and Gardnerville Rte. 3. Sections A2, B1, and B2, a length of 19.66 miles, involving: 53,970 cu. yds. roadway excav.; 860 cu. yds. structure excav.; 13,272 cu. yds. selected borrow excav. in place; 75,884 yd. sta. overhaul; 10,800 miles prepa re sub-grade and shoulders; 8 remolded sh. d. walls; 8-25 miles prepa re sh. d. shoulders; 51,700 cu. yds. crushed rock or crushed gravel surface in place; lump sum, furnishing water equipment; 4533 M. gals. applying water; 6 cu. yds. class A concrete; 34.09 cu. yds. class B concrete; 520 lin. ft. 18-in., 228 lin. ft. 24-in. and 52 lin. ft. 36-in. corr. metal pipe in place; 94 corr. metal pipe culvert extension; 160 lin. ft. std. timber guard rail in place; 58 monuments; 16 remove and reset monuments; 4 furnish and install posts for field markers; 19.66 miles finishing roadway; 600 lin. ft. removing woven wire guard fence.

SAN FRANCISCO—California Construction Co., Standard Oil Bldg., at \$2479.50 awarded contract by Board of Public Works to improve De Long St., involving: 298 lin. ft. armored concrete bet. Head and San Diego Aves., inc. curb, \$1.50; 48 lin. ft. 6-in. V.C.P. side sewer, \$1.50; 3921 sq. ft. asph. conc. pavement, 2-in. asph. conc. surface on 6-in. class F concrete base, \$50.

OAKLAND, Cal.—City council declares intention to improve Hopkins St., bet. High St. and 55th Ave. An portions of High St., Madrone Park Green Acre Road, Pierson and Sirmons Sts., 55 th Ave., Camden Ave 55th Ave., Seminary Ave. and Tremont St., involving:

- (1) 31,616 cu. yds. excavation;
- (2) 1,496 lin. ft. conc. curb wit steel guards;
- (3) 9,598 lin. ft. concrete curb wit guard;
- (4) 394,815 sq. ft. cement concrete pavement, 7 to 9-in. thick;
- (5) 45,286 sq. ft. cement sidewalks;
- (6) 2,728 sq. ft. concrete driveways;
- (7) 90 lin. ft. 8x24-in. corr. iron and concrete culvert;
- (8) 136 lin. ft. 12-in. reinf. concrete pipe conduit;
- (9) 132 lin. ft. 15-in. do do do do;
- (10) 104 lin. ft. 12-in. do do do do (extra strength);
- (11) 43 lin. ft. 15-in. do do do do (extra strength);
- (12) 1 storm water inlet, 43-in. opening;
- (13) 1 storm water inlets, Type A;
- (14) 1 concrete inlet with 34-in. opening;
- (15) 1 concrete handhole with c. 1 cover;
- (16) 1 cast iron hand-hole;
- (17) 1 manhole;
- (18) 1 manhole top;
- (19) 365 lin. ft. 8-in. vit. pipe main sewer;
- (20) 1962 lin. ft. 5-in. vit. pipe side sewers;
- (21) 1 8-in. lamphole;
- (22) 17 12-in. lampholes;
- (23) 11 wye branches.

Estimated cost \$127,000, 1911 Act. City will pay 32 1/2% of the cost from the City Treasury. Hearing April 23. Frank C Merritt, city engineer. Walter N. Frickstad, city clerk.

SAN FRANCISCO—United Improvement Co., awarded contract by Board of Public Works to improve University Ave., bet. Silver and Silliman Aves., involving: 96 lin. ft. armored concrete curb, \$1.40; 1926 sq. ft. asph. conc. pavement, 2-in. asph. conc. surface on 6-in. class F concrete base, \$36.

SAN FRANCISCO—United Improvement Co. awarded contract by Board of Public Works March 18 to improve Victoria Ave. bet. Shields and Sargent Aves., involving: 75 lin. ft. armored concrete curb, \$1.00; 15 lin. ft. 6-in. V.C.P. side sewer, \$1.00; 1125 sq. ft. 6-in. class E concrete pavement, \$35.

SAN FRANCISCO—Municipal Construction Co., Call Bldg., at \$990 was awarded contract by Board of Public Works March 18 to improve Barneveld St. bet. Galvin and Sweeney Sts., involving: 75 lin. ft. armored concrete curb, \$1.40; 60 lin. ft. 6-in. V.C.P. side sewers, \$1.25; 2250 sq. ft. asph. conc. pavement, 2-in. asph. conc. surface on 6-in. class F concrete base, \$36.

SAN FRANCISCO—C. B. Eaton, 715 Ocean Ave., at \$2137.50 awarded contract by Board of Public Works to improve Palou Ave. between Griffith and Hawes Aves., involving: 225 lin. ft. 6-in. V.C.P. side sewers, \$1; 5625 sq. ft. asph. conc. pave, \$30.

SAN FRANCISCO—E. J. Tracey, call Bldg., at \$3765 awarded contract by Board of Public Works to improve Santa Cruz Ave. between Delong St. and De Long St., involving: 450 cu. yds. excavation, \$40; 100 cu. yds. embankment, \$61; 938 lin. ft. conc. curb, \$40; 468 ft. 6-in. V.C.P. side sewer, \$60; 12,200 sq. ft. asph. conc. pave, \$24.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

Owner	Contractor	Am't.
Hotel Owners	Bourdieu	1000
Erybee	Owner	2000
Rosengren	Owner	4000
Bughausen	Owner	9000
Andersen	Owner	4000
Caranza	Owner	5000
Janssen	Owner	18000
Laguens	Owner	5000
Herzig	Owner	20000
Standard	Owner	5500
Meyer	Owner	4000
Rossi	Coburn	3000
Meyer	Owner	12000
McCarthy	Owner	7000
Meyer	Owner	8000
Petersen	Polan	1525
Siller	Coburn	6000
Hettig	Standard	6000
Delbret	Owner	3000
Parente	Owner	8500
Rogers	Owner	4000
Realty	Cassidy	7000
Reinke	Terwilliger	3000
Allison	Owner	3800
Johnson	Owner	5000
Bernhardt	Owner	3000
Berwick	Owner	3200
Mittelstaedt	Linder	8000
Johnson	Owner	7000
Glasson	Born	8800
Frugoli	Owner	7000
Wagner	Armbust	5000
Grosman	Owner	3500
Elkington	Owner	9000
White	Owner	5800
Gall	Owner	4000
Dahlberg	Owner	4000
Hospital	Folsom	1200
Rolkin	Owner	2000
De Maria	Owner	2100
Blanchard	Barsotti	2800
Johnson	Owner	3500
Castleman	Lindgren	1000
McCarthy	Owner	4000
Rasmussen	Owner	35000
Borsi	Owner	8000

Owner and Builder—C. Andersen, 146 Granville Way.
Architect—Not Given. \$4000

DWELLING
(438) SE CAPP ST. 185 S 18th St.; two-story and basement frame dwelling.
Owner and Builder—G. Caranza, 374 Shotwell Street.
Architect—G. A. Berger, 309 Valencia Street. \$5000

FLATS
(437) W FILLMORE 50 S Beach St.; two 2-story and basement frame (2) flats.
Owner and Builder—E. A. Janssen, Hearst Bldg.
Architect—Not Given. each \$9000

DWELLING
(438) S DARIEN WAY 156 E Manor Drive; one-story and basement frame dwelling.
Owner and Builder—Laguens & Larsen, 969 Ashton Avenue.
Plans by Owner. \$5000

Correction in Location.
DWELLINGS
(408) SE COR. 32nd AVE. and Rivera Street.
Seven one-story and basement frame and stucco residences.
Owner & Builder—T. J. Sullivan, 1967 Ocean Avenue.
Architect—Not Given. each \$4000

DWELLINGS
(439) E 30th AVE. 200 S Ulloa; five one-story and basement frame and stucco dwellings.
Owner and Builder—A. J. Herzig, 635 Victoria Street.
Plans by D. E. Jaekle, Call Bldg. each \$4000

SERVICE STATIONS
(440) SW COR. 33rd AVE. and Geary Street; two one-story steel frame service station buildings.
Owner—Standard Oil Co. of California, 225 Bush St.
Architect—Not Given. \$6500

DWELLING
(441) S JAUNITA 39 W Evelyn; ne-story and basement frame dwelling.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by Owner. \$4000

REPAIRS
(442) 440 BROADWAY; repair fire damage.
Owner—J. Rossi, 2048 Market St.

Architect—Not Given.
Contractor—I. W. Coburn, 2048 Market Street. \$3000

DWELLINGS
(443) 118 SW TERESITA NW Reposa three 1-story and basement frame dwellings.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by Owner. each \$4000

FLATS
(444) W 14th AVE. 145 S Judah St.; two-story and basement frame (2) flats.
Owner & Builder—R. McCarthy, 1363 14th Avenue.
Architect—Not Given. \$7000

DWELLINGS
(445) W ROCKDALE 37 W Reposa; two 1-story and basement frame dwellings.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by Owner. each \$4000

ALTERATIONS
(446) NE DIVISADERO and Page; alterations to apts.; remodel front.
Owner—Mr. Petersen, Divisadero and Page Streets.
Architect—Not Given.
Contractor—J. Polan, 3853 25th St. \$1525

REPAIRS
(447) 903 PINE ST.; repair fire damage to apartments.
Owner—E. Siller, 2048 Market St.
Architect—Not Given.
Contractor—I. W. Coburn, 2048 Market Street. \$6000

FLATS
(448) W ALABAMA ST. 27 S Army; two-story and basement frame (2) flats.
Owner—Mr. and Mrs. M. Hettig, 218 Castenada.
Plans by Standard Bldg. Co.
Contractor—Standard Bldg. Co., 218 Castenada. \$6000

DWELLING
(449) W JULES 225 N De Montford; one-story and basement frame dwelling.
Owner and Builder—P. Debre, 77 Marston Avenue.
Plans by D. E. Jaekle, 744 Call Bldg. \$3000

ALTERATIONS
(450) NW BATTERY and Union Sts.; alterations and addition to warehouse.
Owner and Builder—A. Parente, 418 Francisco Street.
Plans by Owner. \$8500

DWELLING
(451) W 27th AVE. 175 S Judah St.; one-story and basement frame dwelling.
Owner & Builder—J. W. Rogers, 1693 21st Avenue.
Plans by Owner. \$4000

DWELLINGS
(452) E PENNSYLVANIA 50 N 20th St.; two one-story and basement frame dwellings.
Owner—Realty Imp. Co., 1419 18th St.
Plans by C. A. Wilder, 1355 Willard St.
Contractor—R. F. Cassidy, 1474 18th Street. each \$3500

ALTERATIONS
(1) 935 FOLSOM ST.; alterations to laundry.

Owner—Hotel Owners' Laundry, 935 Folsom St.
Architect—W. G. Merchant.
Contractor—J. E. Bourdieu, 2625 20th Street. \$1000

ALTERATIONS
(2) 1927 WASHINGTON ST.; alterations to dwelling for two-family dwelling.
Owner—A. S. Erybee, 1462 Lombard.
Plans by Owner. \$2000

REPAIRS
(3) N SANTIAGO 67 W 17th Ave.; one-story and basement frame and stucco residence.
Owner and Builder—J. W. Rosengren, 5845 Mission Street.
Plans by Owner. \$4000

DWELLINGS
(4) W ROCSEVELT 200 S Upper Terrace; three 1-story and basement frame dwellings.
Owner and Builder—Bughausen Co., 412 Kearny Street.
Architect—C. F. Strothoff, 2274 15th Street. each \$3000

DWELLING
(5) E 27th AVE. 175 N Lawton St.; one-story and basement frame and stucco residence.

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

FLATS
 (453) E BARTLETT 260 S 24th St.; two-story and basement frame (2) flats.
 Owner—F. R. Reinke, 99 Bosworth St. Architect—Not Given.
 Contractor—F. S. Terwilliger. \$3000

DWELLING
 (454) E 24th AVE. 125 S Judah St.; one-story and basement frame dwelling.
 Owner and Builders—R. Allison and J. Beck, 1312 Fulton St.
 Plans by Owners. \$3300

STORE
 (455) SE COLLEGE AVE. and Mission St.; one-story frame store.
 Owner and Builder—A. R. Johnson, 3901 Mission St.
 Plans by D. E. Jaekle, 744 Call Bldg. \$5000

DWELLING
 (456) N ULLOA ST. 100 W 16th Ave.; one-story and basement frame dwelling.
 Owner—A. Bernhardt, 2406 22nd Ave. Architect—Not Given. \$3000

DWELLINGS
 (457) E DANTON 250 N Cayuga; two one-story and basement frame dwellings.
 Owner—A. Erwick, 1525 Nee St. Plans by Owner. each \$3200

DWELLINGS
 (458) W 24th AVE. 100 N Lawton St.; two 1-story and basement frame dwellings.
 Owner—O. E. Mittelstaedt, 715 Mission Street.
 Plans by Mr. Linder.
 Contractor—J. F. Linder, 617 Moraga. each \$4000

DWELLINGS
 (459) E 21st AVE. 275 S Noriega; 2 one-story and basement frame dwellings.
 Owner and Builder—P. P. Johnson, 225 Lincoln Way.
 Architect—Not Given. each \$3500

DWELLING
 (460) W EDGEWOOD 500 W Willard; two-story and basement frame dwelling.
 Owner—F. and E. Glasson, Fitzhugh Bldg.
 Architect—C. H. Skidmore, Call Bldg. Contractor—S. A. Born Bldg. Co., 46 Kearny St. \$8800

DWELLING
 (461) E BAKER 85 N Chestnut; two-story and basement frame dwelling.
 Owner—P. R. Fugoli, 2551 Lombard St. Plans by B. Kotta, 873 Broadway. \$7000

DWELLING
 (462) W 16th AVE. 136 N Quintara; one-story and basement frame dwelling.
 Owner—C. R. Wagner.
 Plans by M. Colby.
 Contractor—H. W. Armbrust, 2472 28th Avenue. \$5000

DWELLING
 (463) E FLYMOUTH Ave. 150 N Hal-loway; one-story and basement frame dwelling.
 Owner—W. E. Grosman, 47 Curtis St. Architect—Not Given. \$3500

DWELLINGS
 (464) W 16th AVE. 275 N Wawona; two 1-story and basement frame dwellings.
 Owner and Builder—G. J. Elkington & Sons, 330 Vicente St.
 Architect—C. F. Strothoff, 2274 15th Street. each \$4500

ALTERATIONS
 (465) 1609 FILLMORE ST.; altera-tions to stores.

Owner—Robert White Co., 488 Pine Street.
 Architect—Crim, Resing and McGuin-ness, 488 Pine St. \$5300

DWELLING
 (466) N LAWTON 82 W 23rd Ave.; one-story and basement frame dwelling.
 Owner and Builder—R. F. Galli, 1574 28th Avenue.
 Plans by Owner. \$4000

DWELLING
 (467) E 34th AVE 175 S Judah St.; one-story and basement frame dwelling.
 Owner and Builder—E. Dahlberg, 1075 Halloway St.
 Architect—Not Given. \$4000

ALTERATIONS
 (468) 3700 CALIFORNIA ST.; altera-tions to hospital.
 Owner—Hospital for Children & Train-ing School for Nurses, 3700 Cali-fornia Street.
 Architect—W. H. Armitage, Call Bldg. Contractor—Folsom Street Iron W'ks, 17th and Missouri. \$1200

ALTERATIONS
 (469) 1348 CLAYTON ST.; altera-tions.
 Owner—E. Rolkin, 44 4th St. Architect—Not Given. \$2000

SERVICE STATION
 (470) COLUMBUS AVE., Lombard & Mason Sts.; erect steel frame ser-vice station building.
 Owner—J. E. De Maria, Care Italo-American Petroleum Corp.
 Architect—M. J. Lyons, 916 Kearny St. \$2100

DWELLING
 (471) S PALOU 175 E Quint; one-story and basement frame dwell-ing.
 Owner—E. and Z. Blanchard.
 Architect—Not Given.
 Contractor—A. Barsotti and W. E. Tuomisto. \$2300

DWELLING
 (472) W 33rd AVE. 250 S Santiago; one-story and basement frame dwelling.
 Owner—N. E. Johnson, 666 Mission St. Architect—Not Given. \$3500

ALTERATIONS
 (473) 1690 SAN BRUNO AVE.; al-terations to dwelling.
 Owner—E. Castleman, 1690 San Bruno Avenue.
 Architect—Not Given.
 Contractor—Lindgren Bros., 219 Clay-ton St. \$1000

DWELLING
 (474) W 21st AVE. 225 E Irving St.; one-story and basement frame dwelling.
 Owner—J. E. McCarthy, 1342 Funston Avenue.
 Plans by Owner. \$4000

APARTMENTS
 (475) SE BEACH and Fillmore Sts.; three-story and basement frame (12) apartments.
 Owner—V. Rasmussen, 2290 Beach St. Architect—R. R. Irvine, Call Bldg. \$35,000

APARTMENTS
 (476) W 25th AVE. 100 N Irving St.; two-story and basement frame (3) apartments.
 Owner—L. Dorsl, 171 Highland St. Architect—E. E. Young, 2002 Califor-nia Street. \$8000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Am
58	Hagan	Reavey	361
59	Roman	Rasori	1869
60	Roman	McClintic	587
61	Brown	Sullivan	13
62	S P	Fay	12

APARTMENTS
 (58) N SACRAMENTO 100 W Po W 50 N 127-8 1/4 E 25 S 57-8 1/4 E S 80; all work except wreckin electric fixtures, painting and win-dow shades on 3-story frame of house.
 Owner—Jos. Hagan, 1708 Sacramen Street.
 Architect—Henry C. Smith and A. Williams, Humboldt Bank Bldg.
 Contractor—Reavey & Spivock, In-shell Bldg.
 Filed Mar. 30, '14. Dated Mar. 26, '14.
 First floor joists in place.....25
 Brown coated.....25
 Completed.....25
 Usual 35 days.....25
TOTAL COST, \$36,100.
 Bond, \$18,067. Sureties, United State Guaranty Co. Forfeit, \$20 per da Limit, 11 days. Plans and Spec' file

CONCRETE WORK
 (59) NW JUDAH ST. and Funst Ave.; concrete work on St. Anne Church.
 Owner—Roman Catholic Archbishop San Francisco, 1100 Franklin St. Architect—W. D. Shea, 454 Montgon-ery Street.
 Contractor—S. Rasori, Call Bldg.
 Filed Mar. 30, '14. Dated Mar. 24, '14.
 Fifth of each month.....75
 Usual 35 days.....25
TOTAL COST, \$186,000.
 Bond, \$186,000. Sureties, Fidelity at Deposit Co. of Maryland. Limit, Ja 1, 1921. Plans and Spec. filed.

(60) **STRUCTURAL STEEL WOR** on the above.
 Contractor—McClintic-Marshall Cor-p 2050 Bryant St.
 Filed Mar. 30, '14. Dated Mar. 24, '14.
 Fifth of each month.....75
 Usual 35 days.....25
TOTAL COST, \$58,700.
 Limit, 85 days. Plans and Spec. file

UNDERPINNING
 (61) N SACRAMENTO ST. 150 We Polk St. W 30 x N 127-3 1/4; under-pinning three-story and basement frame building.
 Owner—Geo. Brown Estate Co. Architect—A. Nordin, Mills Bldg. Contractor—D. J. and T. Sullivan, In-1942 Folsom St.
 Filed Mar. 31, '14. Dated Mar. 26, '14.
 Brick work up.....50
 Completed.....25
 Usual 35 days.....25
TOTAL COST, \$134,000.
 Bond, \$67,000. Sureties, Fidelity & De-posit Co. of Maryland. Forfeit, \$10 Plans and Spec. filed.

PAVEMENT
 (62) S CHANNEL bet. 3rd and 4th application of asphaltic pavemen on pier.
 Owner—S. P. Company.
 Architect—Not Given.
 Contractor—The Fay Imp. Co., Phel-ax Bldg.
 Filed Mar. 31, '14. Dated Mar. 24, '14.
 1st of each month.....75
 days after completion.....25
TOTAL COST, \$124,250.
 Bond, \$124,250. Sureties, U. S. Guar-antee Co. Limit, 11 days. Spec. filed

COMPLETION NOTICES

San Francisco County

March 25, 1931—NE 21st and Lawry 5355. A Hallgren to whom it may concern.....March 25, 1931
 March 26, 1931—SE TINGLEY and Lemany Blvd 25x100, Lots 152 and 153 Academy Tract. William and Johanna G Grossman to whom it may concern.....March 25, 1931
 March 26, 1931—S CHESTNUT 137-7. Fillmore E 55 x 137-6. John E Cigalupi to whom it may concern.....March 25, 1931
 March 26, 1931—2645 LAKE ST. D. W. Spector to Young & Horstmeier.....March 16, 1931
 March 26, 1931—E 21st AVE 125 S. Praga. J Fontl to H H Isaacs.....March 23, 1931
 March 26, 1931—W 14th AVE 120 S. Dana E 25 x W 100. A L Edwards. J E McCarthy.....March 24, 1931
 March 26, 1931—NW STEUART and Mission SW 100 x NW 80. J Pickens to J H McFarland.....Mar 24, 1931
 March 25, 1931—NE DANNY N 225 W. C. Boyner NW 25 x NE 100. W. Adstrom to A Berwick.....March 25, 1931
 March 25, 1931—W 31st AVE. 350 N. Caval 40x120. J W Rogers to whom it may concern.....March 25, 1931

LIENS FILED

San Francisco County

Recorded **Accepted**
 March 23, 1931—N WASHINGTON 106-334 E Lyon E 24-1 1/2 x N 137-8 1/4 E 25 S 127-8 1/4. R Allen as Bowman Plumbing Supply Co vs G E Lund and C A Pearce.....\$175.90
 March 23, 1931—SE WOOLSEY 90 SW Somerset SW 60 x E 100 Blk 2 Paul Tract. Metzler & O'Brien vs S Makaren.....\$275
 March 27, 1931—E DELANO AVE 50 S Meda Ave E 30x6 125-6. Roma Hardwood Floor Co vs Giuseppe Bianchi.....\$125
 March 26, 1931—SE CHESTNUT and Kearny E 40 x S 68-9. Argonaut Inv Co vs C S Maves.....\$8664.12
 March 31, 1931—NE VAN NESS AVE and California E 100 N 137-6 E 37-6 N 4-3 1/4 W 137-6 S 142-2 1/4. Thomas Brodie Inc vs H C Pendleton, Victoria L Eoff, Harry F Marsh, Eva Walters, Jas A Johns, Mary A Heider, Martha E Morgan, Margaret L Thomas, Florence B Christensen, Geo H Coons, Leonora Dennis, A C Walters, Alice L Marsh, American Trust Co and estate of Mary M Bradbury.....\$611.99

RELEASE OF LIENS

San Francisco County

Recorded **Amount**
 March 25, 1931—E POLK 72 North California N 75-2 1/4 x E 100. P A Anderson vs D Miller Music Co & Henry Stume & Co.....\$33.15
 March 23, 1931—W GUERRERO 160 S 25th S 50 x W 125. Lyford and Griffin to Robert Pigott Estate, Chas Henderson.....\$300
 March 24, 1931—S FILBERT 65 East Taylor E 27-6 x S 75-6. F Howard to S and R Ludovici.....\$300

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
345	Doolittle	Owner	1200
346	May	Doolley	4000
347	Crch	Owner	525250
348	Patterson	Owner	4000
349	Douglas	Hammarberg	7250
349	French	Owner	3000
350	Pink	Leekins	3600
351	Graham	Owner	1093
352	Wheeler	Owner	5750
353	Rowe	Owner	4150
354	Blue Bird	Haskell	2650
355	Kern	Walker	900
356	Sigwald	Owner	11000
357	Kallia	Marlin	3800
358	Ballard	Dawson	3000
359	Angeio	Marchant	9000
360	Bank of America	Owner	1000
361	Anderson	Owner	4500
362	Carlson	Owner	3500
363	Roman	Isardi	11000
364	Sater	Owner	4900
365	Robinson	Findlay	3500
366	Calleri	Casha	4000
367	Grubb	Owner	3250
368	Massoni	Beck	8000
369	Burnett	Burnett	5000
370	Grubb	Owner	6500
371	Van Ness	Owner	2000
372	Derry Ecos	Owner	5000
373	Scammell	Owner	9000
374	Reinlinghaus	Owner	3500
375	Conlogue	Owner	6200
376	Johansen	Owner	3100
377	Bunker	Short	5000

ADDITION

(345) 5944 CLAREMONT AVENUE, OAKLAND; addition to dwelling. Owner and Builder—N. R. Doolittle, 5944 Claremont Ave., Oakland. Architect—Not Given. \$1200

DWELLING

(346) NW COR. SIMMONS and Morcom, OAKLAND; one-story five-room dwelling. Owner—Herbert T. May. Architect—Not Given. Contractor—Fred T. Dooley, 3336 Vale Ave., Oakland. \$4000

DWELLING

(347) W ROSS ST. 150 S Chatot Rd., OAKLAND; one-story six-room dwelling and garage. Owner and Builder—Ernest W. Urch, 1924 50th Avenue, Oakland. Architect—Not Given. \$6150

DWELLING

(348) N MORCOM AVE. 165 E Bird-sall Ave., OAKLAND; one-story 6-room dwelling. Owner and Builder—J. F. Patterson, 141 High St., Oakland. Architect—Not Given. \$4000

DWELLING

(349) 52 EL CAMINO REAL, BERKELEY; two-story and garage one-family frame and stucco residence. Owner—C. Douglas, 26 Tunnel Road, Berkeley. Architect—Not Given. Contractor—Albert Hammarberg, 723 Hilgard Ave., Berkeley. \$7250

RESIDENCE

(349) NO. 355 VERMONT AVE., BERKELEY. One-story 5-room 1 family frame residence and garage. Owner—O. M. French, 1740 Walnut St. Berkeley. Architect—Not Given. \$3000

DWELLING

(350) S MORCOM AVE. 100 E Kingsland Ave., OAKLAND; one-story 5-room dwelling. Owner—Dorothy Pink, 1650 Hopkins St., Oakland. Architect—Not Given. Contractor—C. W. Leekins, 1650 Hopkins St., Oakland. \$3000

GARAGE

(351) 5345 CLAREMONT AVENUE, OAKLAND; one-story brick garage. Owner and Builder—Lewis Graham, 2327 64th Ave., Oakland. Architect—Not Given. \$1000

DWELLING

(352) W PORTAL AVE. 150 N Mandana Blvd., OAKLAND; two-story 7-room dwelling. Owner and Builder—Jas. M. Wheeler, 1018 69th Ave., Oakland. Architect—Not Given. \$5750

DWELLING

(353) S BROCKHURST ST. 250 West West St., OAKLAND; one-story 6-room dwelling and garage. Owner and Builders—J. B. and E. A. Rowe, 2522 Magnolia St., Oakland. Architect—Not Given. \$4150

GARAGE

(354) 966 81st AVE., OAKLAND; 1-story brick and tile garage. Owner—Blue Bird Potato Chip Co., 63th Ave. and Beck St., Oakland. Architect—Chas. W. McCall, 14th and Franklin Sts., Oakland. Contractor—A. A. Haskell, 255 Ridgeway Ave., Oakland. \$2650

REPAIRS

(355) W BROADWAY 200 N 21st St., OAKLAND; repairs. Owners—Albert E. and Eva S. Ketter, and Hamburger, Inc., 110 Sutter St., San Francisco. Architect—Not Given. Contractor—F. J. Walker Co., 55 New Montgomery St., San Francisco.

March 30, 1931—W JONES 90 S Ellis 490. Progressive Trading Co, d to whom it may concern.....March 23, 1931
 March 30, 1931—S ABLERT AVE 275 390 W Delta, 347 and 351 A. A. Ave, SE Terry and Delta, 295 Terry Ave. A M Samuelson to whom it may concern.....Mar 26, 1931
 March 30, 1931—W 12th AVE 193-9 S. Mtggs 31-3x120. John Michael C Bommer to Thom to whom it may concern.....March 30, 1931
 March 30, 1931—W EDGAR AVE 125 Bruce Ave 25 x W 112-6 Blk E. deKiev. Jesse Horn to whom may concern.....March 30, 1931
 March 23, 1931—E 16th AVE 100 S. cente 25x127-6. Mrs L P Mcmbridge to G J Elkington & n.....March 25, 1931
 March 23, 1931—SE MISSION 390 NE 151 60x83-6. Axel R Larson to whom it may concern.....Mar 23, 1931
 March 23, 1931—E GAMBIER 75 N Hillman 25x35. C T Lindsay to whom it may concern.....March 23, 1931
 March 23, 1931—LCT 157 Spring Valley Hd. NW Cayuga 125 SW Dana 25x100. M L Struthers to G J snway.....March 27, 1931
 March 23, 1931—LOT 156 Spring Valley Hd NW Cayuga 100 SW Dana 25x100. M L Struthers to G J snway.....March 27, 1931
 March 23, 1931—PTN LOT 22 BLK 40 St Marys Park as follows Int B Benton Ave and Ne line lot 120 x 120 ft 120 ft E E 100 W 23-402 NW 1068-08 m or 1 NE Andrew R and Helen W Johnson to Andrew R Johnson.....March 24, 1931
 March 27, 1931—N MONTERREY and 175 W Congo No. 330 Monterey Blvd. F J Davis to whom it may concern.....March 2, 1931
 March 27, 1931—NE POLK ST. AND roadway. Associated Oil Co to eavey & Spivock.....March 21, 1931
 March 27, 1931—SW PACIFIC AVE W Little N 27-3 1/4 x W 112. K Dodge to A C Lindgren.....March 27, 1931
 March 26, 1931—W BACHE ST 152-6 Crescent St. J Melnes to B C Inday.....March 25, 1931
 March 21, 1931—W YORK 60 S 25th x70. Vincent P Laguens to whom may concern.....March 26, 1931
 March 21, 1931—1726 24th AVENUE. H Alger to James C Duerner.....March 31, 1931

RESIDENCE
(356) 566 BLAIR AVE., **PIEDMONT**;
two-story 7-room frame residence
and garage.
Owner and Builder—Sigwald Bros, 916
Alma Ave., Oakland.
Architect—Ray Keefer, 3281 Lakeshire
Oakland. \$11,000

RESIDENCE
(357) 1632-35 ROSE ST., **BERKELEY**
one-story 6-room 2-family frame
residence and garage.
Owner—Eva Kallia, 783 17th Street,
Oakland.
Architect—Not Given.
Contractor—Thos. Malkia, 358 Pierce
St., San Francisco. \$3800

PLANING MILL
(358) 1010 PARKER ST., **BERKE-
LEY**; one-story one-room frame
planing mill.
Owner—Sheehan & Ballard, 1010 Park-
er St., Berkeley.
Architect—Not Given.
Contractor—J. Dawson, 1507 Lincoln
St., Berkeley. \$3000

DWELLING
(359) N BARBARA ROAD 200 West
Excelsior, **OAKLAND**; two-story
9-room dwelling.
Owner—E. C. Angelo, 2747 Haste St.,
Berkeley.
Architect—Not Given.
Contractor—Gordon Marchant, 3 2 0 1
Bruce St., Oakland. \$3000

ALTERATIONS
(360) 425 14th ST., **OAKLAND**; store
front alterations.
Owner and Builder—Bank of America
N. T. & S. A., 1008 Oakland Bank
Bldg., Oakland.
Architect—Not Given. \$1000

DWELLING
(361) 1632 PEARL ST., **ALAMEDA**;
one-story 5-room frame and
stucco dwelling.
Owner and Builder—Walter H. Ander-
son, 1014 Doris Court, Alameda
Plans by Owner. \$4500

DWELLING
(362) 1863 SAN ANTONIO, **BERKE-
LEY**; one-story 6-room dwelling.
Owner and Builder—Oscar Carlson,
659 Santa Barbara Road, Berkeley.
Plans by Owner. \$2500

DWELLING
(363) W 82nd AVE. 100 N Atherton,
OAKLAND 2-story 10-room dwell-
ing.
Owner—Roman Catholic Archbishop of
San Francisco, 1100 Franklin St.,
San Francisco.
Architect—H. A. Minton, Underwood
Bldg., San Francisco.
Contractor—Ernest Isard, 2274 A Col-
lingwood St., San Francisco. \$11,000

DWELLING
(364) S SYLVAN AVE. 160 E Maple,
OAKLAND; 1-story 6-room dwell-
ing.
Owner—A. E. Sater, 3727 Hillview St.,
Oakland.
Architect—Not Given. \$4000

RESIDENCE
(365) NO. 1830 SAN LORENZO AVE.,
BERKELEY. Two-story 5-room 1
family frame residence and gar-
age.
Owner—F. M. Robinson, 2327 Ward
St., Berkeley.
Architect—W. Scott, Oakland.
Contractor—G. Findlay, 695 Cherry
St., Palo Alto. \$3500

DWELLING
(366) N MEADOW ST. 300 East 35th
Ave., **OAKLAND**; one-story five-
room dwelling.
Owner—L. Calleri, 3532 Meadow St.,
Oakland.
Architect—Not Given.

Contractor—Theo. C. Casha, 2123 E
30th St., Oakland. \$4000

DWELLING
(367) 1833 108th AVE., **OAKLAND**;
one-story 5-room dwelling and gar-
age.
Owner and Builder—Jas. B. Grubb,
1815 Breed Ave., Oakland.
Architect—Not Given. \$3250

FLATS
(368) SW COR. 56th and GROVE Sts.,
OAKLAND; 2-story 8-room flats
and 1-story tile garage.
Owner—Peter Massoni, 5539 Grove St.,
Oakland.
Architect—Not Given.
Contractor—Robt. Beck, 720 61st St.,
Oakland. \$3900

DWELLING
(369) W MORPETH 80 N Jacobus;
OAKLAND; two-story six-room
dwelling.
Owner and Builder—C. H. Burnett, 865
32nd St., Oakland.
Architect—Not Given. \$5000

DWELLINGS
(370) 1839 108th AVE., **OAKLAND**;
two 1-story 5-room dwellings and
garages.
Owner and Builder—Jas. B. Grubb,
1815 Breed Ave., Oakland.
Architect—Not Given. each \$3250

DWELLING
(371) S REDDING ST. 103 W High
St., **OAKLAND**; one-story 4-room
dwelling.
Owner and Builder—L. E. Van Ness,
4920 Park Blvd., Oakland.
Architect—Not Given. \$2000

DWELLING
(372) NO. 880 LEE AVE., **SAN LE-
ANDRO**. One and one-half-story
6-room dwelling.
Owner—Derry Bros., 614 E-14th St.,
San Leandro.
Architect—Not Given.
Contractor—Derry Bros., 614 E-14th
St., San Leandro. \$5000

RESIDENCE
(373) NO. 21 RICHARDSON WAY,
PIEDMONT. Two-story 9-room
frame residence and garage.
Owner—J. W. Scammell, 924 Scenic
Ave., Piedmont.
Architect—Not Given. \$9000

RESIDENCE
(374) NO. 510 COLUSA AVE., **BER-
KELEY**. One-story 6-room 1-
family frame residence and garage
Owner—B. Reininghaus, 2717 Chan-
ning Way, Berkeley.
Architect—Not Given. \$3500

DWELLINGS
(375) 2946-9552 73rd AVE., **OAK-
LAND**; two 1-story 5-room dwell-
ings and 1-story garages.
Owner and Builder—F. W. Conlogue,
2607 64th Ave., Oakland.
Architect—Not Given. each \$3100

DWELLING
(376) 9226 CHERRY ST., **OAKLAND**;
one-story 5-room dwelling and gar-
age.
Owner and Builder—K. A. Johansen,
2532 76th Ave., Oakland.
Architect—Not Given. \$2100

BUILDING CONTRACTS

ALAMEDA COUNTY

No. Owner	Contractor	Am't
67 Roman	Kenyon	15443
60 Quinn	Anderson	6300
61 Roman	Kruse	20619

ELECTRIC WORK
(57) LAND BOUNDED by Edith St.,
Dullich Road, Jacobus Avenue and
Morpeth Street, Oakland; electric
work on high school building.

Owner—Roman Catholic Archbishop of
San Francisco, 1100 Franklin St.,
San Francisco.
Architect—H. A. Minton, 618 Und-
wood Bldg., San Francisco.
Contractor—Kenyon Electric Co., 38
16th St., San Francisco.
Filed Mar. 27, '31. Dated Mar. 11, '31.
First of each month..... 75
Usual 35 dals..... 25
TOTAL COST, \$18,440
Bond: Performance, \$1544.30; Labor,
Materials, \$5442. Sureties, Massa-
chusetts Bonding & Ins. Co. Ltr.
Aug. 15, 1931. Plans and Spec. file
Assigned by owner to James L. J.
Laughlin Company.

RESIDENCE
(60) LOT 111 BLK H, Fernside
Tract, Alameda; general consti-
tution on residence.
Owner—James A. Quinn, 3221 Libe-
rt, Alameda.
Architect—Not Given.
Contractor—Walter H. Anderson, 14
Doris Court, Alameda.
Filed April 1, '31. Dated Mar. 24, '31.
When frame is up..... \$15
When rough plastered..... 15
When completed and tiled..... 15
Usual 35 days..... 15
TOTAL COST, \$60
Forfeit, \$1 per day. Limit, 90 da.
Plans and Spec. filed.

PLUMBING WORK
(61) BOUNDED by Edith St. Dull,
Road, Jacobus Ave. and Morpeth
St., Oakland; plumbing work in
high school building.
Owner—The Roman Catholic Arch-
bishop of San Francisco, 11
Franklin St., San Francisco.
Architect—H. A. Minton, Underwood
Bldg., San Francisco.
Contractor—L. J. Kruse, 6247 Colle-
ge Ave., Oakland.
Filed Apr. 1, '31. Dated Mar. 2, '31
First of each month..... 2
Usual 35 days..... 2
TOTAL COST, \$20.
Two Bonds: \$20,619 and \$20,619.00. St-
eties, Aetna Casualty & Surety (a
Limit, Aug. 15, 1931. Plans and Sp-
filed. Assigned by owner to Jam-
L. McLaughlin Company.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded	Accepted
March 28, 1931—3401 MOUNTAIN Blvd. Oakland. Charles D Lyon to whom it may concern.....	March 28, 1931
March 28, 1931—PTN LOTS 32 and 33 Blk 5, Fruitvale Garden Farms, Oakland. Edgar E. Landon to John Fleming.....	March 28, 1931
March 28, 1931—1707 CAMBRIDGE Drive, Alameda. S J Sterner to whom it may concern.....	March 28, 1931
March 27, 1931—LOT 22 BLK K, De- rant Manor, Oakland. Charles W. and Ada J Griffith to whom it may concern.....	March 26, 1931
March 27, 1931—S BROCKHURST St 210 ft 9 in W of West St, Oak- land. J J and E A Rowe to whom it may concern.....	March 25, 1931
March 27, 1931—PTN LOTS 7, 8 and 9, Elk 9, Key Route Heights, Oak- land. A M Berg to whom it may concern.....	March 27, 1931
March 27, 1931—2923 GRAND AVE., Oakland. Avedis Tulianian to A J Yerrick.....	March 27, 1931
March 24, 1931—W SAN PABLO Ave 80-70 ft S of Mead Ave, Oak- land. Willow Brook Dairy to E S Campenoch.....	March 16, 1931
March 24, 1931—PT OF SEVENTH St, Oakland. Southern Pacific Co to Hutchison Co.....	March 14, 1931
March 24, 1931—FIRST and Webster Sts, Oakland. Southern Pacific Co to Hutchison Co.....	March 14, 1931

ch 24, 1931—EMERYVILLE, Esdillo and Oakland. Southern Electric Co to Hutchinson Co. March 14, 1931

LIENS FILED

ALAMEDA COUNTY

Table with columns: Record, Amount. Lists various property liens in Alameda County including HARRISON St, NORTH LINE E, FAIRWAY, and GRAND AVE.

RELEASE OF LIENS

Alameda County

Table with columns: Record, Amount. Lists the release of liens for properties such as 112-6 Westough W 25 x S 120 and 112-6 Westough W 25 x S 120 to N Austin.

BUILDING PERMITS

SAN MATEO

Table with columns: Record, Amount. Lists building permits in San Mateo for lots 9, 26th Avenue, and 7 E.

BUILDING CONTRACTS

SAN MATEO COUNTY

Table with columns: Record, Amount. Lists building contracts in San Mateo County for O'Connor St, 330 Market St, and 26th Avenue.

CONTRACTOR—H. H. MacDonald, Crystal Springs Road, Belmont.
SCHOOL SITE, Menlo Park; construct El Camino Dormitory and other work (frame and stucco).

Architect—B. M. Clark, 310 University Ave., Palo Alto.
Contractor—F. C. Stolte, 3449 Laguna, Oakland.
Filed Mar. 26, '31. Dated Mar. 24, '31. Progress payments of.....75% 36 days after.....25%
TOTAL COST, \$51,019
Bond, \$26,000. Sureties, James Tyson and H. C. Broderick. Forfeit, \$50 per day. Limit, Aug. 15, 1931. Plans and Spec. filed.

COMPLETION NOTICES

SAN MATEO COUNTY

Table with columns: Record, Amount. Lists completion notices in San Mateo County for lots 5 BLK 2, 1 BLK 2, PART LOT 5 BLK 1, and various other properties.

LIENS FILED

SAN MATEO COUNTY

Table with columns: Record, Amount. Lists liens filed in San Mateo County for 2, Portion of Bowie Estate.

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$3000; No. 715 Homer Ave., Palo Alto; owner, Mrs. O. Halsey, 741 Homer Ave., Palo Alto; contractor, C. E. Finrell.

RESIDENCE, stucco, and garage, \$14,000; 1310 University Ave., Palo Alto; owner, A. H. Baker, 1516 Ralston, Burlingame; contractor, H. H. Dabnatt, 1765 Fulton St., Palo Alto.
ADDITION to residence \$2,000; 1010 Quirida St.; owner, Mary E. Purcell, premises; contractor, J. Foss.
RESIDENCE, stucco, \$8000; 875 Pope St.; owner, Marjorie S. Price; contractor, L. H. Price, 460 Maple Ave., Palo Alto.
RESIDENCE, stucco, \$9000; No. 545 Pope St.; owner, Dallas E. Wood, 551 Tenney Ave., Palo Alto; architect, H. E. Collins, Decker Oak Bldg., Palo Alto; contractor, Osborne & Knight.

BUILDING PERMITS

SAN JOSE

RESIDENCE, five-room frame, \$3750; corner Mariposa & Tillman; owner, H. J. Raven; contractor, Wm. H. O'Neil, 1500 McDaniel.
RESIDENCE, 5-room frame, \$2750; St. John near 16th; owner, Mrs. V. Burgess, 784 E. St. John; contractor, S. Simpson, 736 E. St. John.
APARTMENTS, court, eight 3-room, \$17,600; E Santa Clara at Morlan; owner, R. DeBaere, Berkeley; architect, F. H. Slocombe, 317 17th St., Oakland; contractor, H. C. Knight, 317 17th St., Oakland.
RESIDENCE, six-room frame, \$5000; Riverside near Co; owner and builder, Geo. McCrory, 1927 Clark Way.
ALTER frame business building, \$2,000; 611 N. 15th St.; owner J. Campagna, premises; contractor, J. Santi.
RESIDENCES, two 5-room, \$1850 ea.; Filomena Ave.; owner, C. P. Praterangelo, 255 N 1st; contractor, D. Amoroso, 1053 Park.

BUILDING PERMITS

REDWOOD CITY

DWELLING, frame, and garage, \$3000 1135 Clinton St.; owner, Wm. E. Griffin; contractor, S. B. Goss.
DWELLING, frame, five-rooms, bath and garage, \$4000; No. 133 Iris St., Redwood City; owner, H. P. Peterson.
DWELLING, frame, 6-rooms, bath and garage, \$4000; No. 145 Hudson St., Redwood City; owner, C. H. Beckman, Barney St., Atherton.
DWELLING, frame, \$3000; No. 1118 Fay St., Redwood City; owner, E. L. Newman, 170 San Domingo St., San Bruno.

BUILDING CONTRACTS

SANTA CLARA COUNTY

DWELLING NE 257.67 FT. NW FROM INT. OF Pope St. and Hamilton Ave NW on Pope St. 60 th N 73° 29' E 147.02 ft. th S 16° 21' E 60.17 and th S 73° 39' W 142.54 ft to juc. Pt Blk H, Palo Alto. All work for dwelling and garage.

Member Insurance Brokers' Exchange

FRED H. BOGGS INSURANCE 490 GEARY STREET

Phone FRanklin 9400

San Francisco

Owner—Dallas E. and Elizabeth W. Wood, 551 Tennyson Ave., Palo Alto.
 Architect—Henry C. Collins, Decker Oak Bldg., Palo Alto.
 Contractor—R. C. Knight, 6532 Dover St., Oakland.
 Filed Mar. 27, '31. Dated Mar. 17, '31.
 Frame completed 3/4
 Plastering completed 1/4
 On completion 75%
 Usual 35 days. Balance
 TOTAL COST, \$93,290
 Bond, \$4660. Sureties, James H. Pierce and Joe Ferioli. Limit, forfeit, none. Plans and specifications filed.

APARTMENTS
 NE SANTA CLARA AVE. AND Morland St., San Jose. All work for 8 apartments of 3 rooms each and 8 garages.
 Owner—Mr. and Mrs. R. De Baere, Berkeley.
 Architect—Francis Harvey Slocombe, 62 York Drive, Oakland.
 Contractor—H. C. Knight, 6532 Dover St., Oakland.
 Filed Mar. 22, '31. Dated Mar. 18, '31.
 Roof on \$412.50
 1st coat plaster on 412.50
 Plastered inside and outside 412.50
 Millwork set inside 2206.25
 Building accepted 2206.25
 TOTAL COST, \$17,650
 Bond, none. Limit, 75 days after laying mud sills. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted
 March 25, 1931—67 FT. E SOUTH Third St., bet. San Fernando and San Antonio Sts., San Jose. L. Lion & Sons Co to whom it may concern March 24, 1931
 March 25, 1931—LOTS 8 AND 9, Pearl Tract Also 6.85 acres on SE Pearl Ave., San Jose. Idor Swanson to whom it may concern March 30, 1931
 March 25, 1931—SE FIRST AND San Carlos Sts., San Jose. Hale Bros Realty Co to whom it may concern March 24, 1931
 March 26, 1931—LOT 4, El Abra Court, San Jose. Clyde Alexander to whom it may concern March 25, 1931
 March 26, 1931—LOT 30 BLK 1, Conking and Col Subd., San Jose. V R Caminetti et al to whom it may concern March 26, 1931
 March 27, 1931—2.578 ACRES ON SW Mt. Hamilton Road with exceptions, San Jose. Zura Hess Lindsay to whom it may concern March 27, 1931
 March 27, 1931—LOT 28 BLK 2, Lincoln Gates. Alfred D Zeder et al to whom it may concern March 27, 1931
 March 27, 1931—N SAN CARLOS St. 33.34 W. Easton Ave., San Jose C and C Masto to whom it may concern March 26, 1931
 March 27, 1931—NE 39 FT. LOT 6 Blk 4, Mount Hamilton View Park. Ernest E Erindos to whom it may concern March 26, 1931
 March 28, 1931—SANTA CLARA St., San Jose. C H Kamm to whom it may concern March 27, 1931
 March 28, 1931—LOT 66, Willow Glen Orchard Tract. S N Hedegard to whom it may concern March 24, 1931
 March 29, 1931—LOT 9 BLK 6, Claremont Subd. William B George Jr et al to whom it may concern March 30, 1931
 March 30, 1931—LOT 7 BLK 4, Willowhurst. Adah Ross Butts to whom it may concern March 28, 1931

March 18, 1931—SE REED AVE NE 758.08 NE White Road on Reed Ave 100 ft. r/a SE 939.80 & NW in land Continental Pacific Finance, San Jose. J V Gagliardi to whom it may concern March 17, 1931
 March 19, 1931—PTN LOT 3 BLK 82 being on the W Addison St. commencing 50 ft. Sly from inter of Addison and Guinda Sts and being 100x150 ft., Palo Alto. Church of Jesus Christ of Latter Day Saints to The Milton Co March 16, 1931
 March 19, 1931—1 AC PT NE 1/4 Sec 2 Tsp 8 S R 1 W and right-of-way, San Jose. Debora Huntley Knight to whom it may concern March 19, 1931

March 20, 1931—OXFORD 19, 31 E and SW State Highway NW 54.01 SW 108.55 SE 52.25 to NW Oxford Ave NE 95.53 to beg Ptn Lots 28 and 29 Blk 50, College Terrace, Palo Alto., Pierre and Aline Casuarung to whom it may concern March 19, 1931
 March 21, 1931—ON 7,096 AC ON NE State Highway Part Santa Teresa Rancho. Oscar H Eckstein to whom it may concern. March 14, 1931
 March 21, 1931—LOT 23 BLK 100, Palo Alto. Julia W Van Vleck to whom it may concern. March 17, 1931
 March 23, 1931—THEODORE ROOSEVELT Junior High School Site, San Jose. San Jose High School District to whom it may concern March 16, 1931
 March 24, 1931—LOT 6 BLK 58, Re-subd of Seale Addition No. 2, Palo Alto. Emilia H Montrouil to whom it may concern. March 20, 1931

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
 March 28, 1931—LOTS 12 AND 14 Blk 14, Stanford Villa Tract. Mermer Lumber Co vs Hugh Carmody \$374.52
 March 28, 1931—BEG. 212.50 W and 150 S of SW Hamilton and Ashby Aves S 159.90 x W 55 Ft Lot 15, Ashby Addn and pt Coyce and Ashby Terrace, also beg 262.5 Wx 150 S from SW Ashby and Hamilton Avenue extended W 50xS 159.9 pt Lots 15 and 16, Ashby Addn, Palo Alto and r/w. (1) Progress Lumber Co; (2) Mermer Lumber Co; (3) Mermer Lumber Co; (4) Mermer Lumber Co. vs Jessie La Venture (1) \$878.17; (2) \$52; (3) \$264.50; (4) \$414.84.
 March 29, 1931—W DOYLE RD and S line lands of San Jose-Los Gatos Peninsula Railway Co. N. N. Klaskas H Russo vs Joe Coco et al \$923.67
 March 21, 1931—LOT 60, McCreery Subd, San Jose. San Jose Lumber Co vs Arthur Crisp et al \$154.70

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
 March 20, 1931—NW SANTA CLARA and Notre Dame Ave., San Jose. Federal Ornamental Iron & Bronze Co to San Jose Community Hotel Company \$923.67

BUILDING PERMITS

STOCKTON

RESIDENCE, 2-story brick veneer, & garage, \$19,000; 2 West Pine St., owner, L. E. Roney; contractor, E. Merlo, Moreings Lane.
 DWELLING, 1-story brick veneer, & garage, \$5000; 1570 W Walnut St.; owner, Jerry Conterno, 1822 No.

College Drive; contractor, M Heterbrand, 2644 E Main St

BUILDING CONTRACTS

MONTEREY COUNTY

RESIDENCE
 CARMEL POINT. All work for two story residence and garage.
 Owner—Mrs. Johnson Fields, Carmel.
 Real and Tenth St., Carmel.
 Architect—Hugh Comstock, Carmel.
 Contractor—Hugh Comstock, Elmer Bldg., Carmel.
 Filed Mar. 24, '31. Dated Mar. 24, '31.
 As work progresses
 TOTAL COST, 0%
 Bond, none. Limit, 50 working days.
 Forfeit, none. Plans and specifications filed.

SCHOOL
 PACIFIC GROVE. All work for two front curtain, cyclorama on top and auditorium window drawn school building.
 Owner—Pacific Grove High School District, Pacific Grove.
 Architect—W. H. Weeks, 525 1/2 St., San Francisco.
 Contractor—Fred P. Turner, Stockton.
 Filed Mar. 24, '31. Dated Feb. 24, '31.
 As work progresses
 Usual 35 days. Balance
 TOTAL COST, 10%
 Bond, none. Limit, 20 working days.
 Forfeit, none. Plans and specifications filed.

SCHOOL
 PACIFIC GROVE. All work for border lights for installing electric light fixtures in addition to high school.
 Owner—Pacific Grove High School District.
 Architect—W. H. Weeks, 525 1/2 St., San Francisco.
 Contractor—W. H. McConnell, 1948 Munras St., Monterey.
 Filed Mar. 24, '31. Dated Feb. 24, '31.
 As work progresses
 Usual 35 days. Balance
 TOTAL COST, 10%
 Bond, none. Limit, 20 working days.
 Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded
 March 24, 1931—PRESENT H H School Building Site, Pacific Grove. Pacific Grove High School District to J J Groden Co March 1931
 March 25, 1931—PTN LOT 16 BK 19 Map of Riker & Jackson Survey Forming part of whom it may concern. John E Ostrander to whom it may concern March 23 1931
 March 27, 1931—LOT 14 and 1st Lot 13 Blk 80, Map of Addition No. 5, Carmel-by-the-Sea. Rufus M. Kingman to Dowsett-Ruhl Co March 7, 1931
 March 28, 1931—LOT 9 BLK 1, 1/2 of Spazier Subd, Pacific Grove. J W Shaney to whom it may concern March 26, 1931

LIENS FILED

MONTEREY COUNTY

Recorded Amount
 March 28, 1931—LOT 34 BLK 2, 1st No. 2, Lakeside Tract, Monterey. P E Grantham, \$341.15; Geo Towle and Mattie L Wright, \$3; Tynan Lumber Co., \$36.32 vs S C and Wendie C Williams.

BUILDING CONTRACTS

MARIN COUNTY

NGALOW
 S RAFAEL All work for bungalow
 (owner—C. C. Olmsted, 232 Nye St.,
 San Rafael.
 Architect—A. W. Smith, American
 Bank Bldg., Oakland.
 Contractor—John Carminati, Warden
 Tract, San Rafael.
 Bld Mar. 21, '31. Dated Mar. 19, '31.
 Plans up to whom it may concern.....\$975
 When enclosed.....375
 When completed.....975
 Usual 35 days.....975
TOTAL COST, \$3900
 Bond, \$2000. Surety, Peter Caletti.
 Bld. July 1, 1931. Forfeit, none.
 Plans and specifications filed.

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
 March 23, 1931—MORNINGSIDE
 Court, San Anselmo. Walter Mayer
 vs. whom it may concern.....\$975
 Bld Mar. 23, 1931—LARKSPUR. Chas
 Donovan to whom it may concern.....
 March 21, 1931
 Bld 26, 1931—SAN RAFAEL John
 Foge to Person & Olson.....
 March 25, 1931
 Bld Mar. 26, 1931—SAN ANSELMO.
 Arnold E Squire to whom it may concern.....
 March 26, 1931
 Bld Mar. 26, 1931—SAN RAFAEL F.
 Gagnon to Self.....March 26, 1931

LIENS FILED

MARIN COUNTY

Recorded Accepted
 March 27, 1931—MILL VALLEY. U
 Ashiro vs Mr and Mrs Arthur
 Argiewicz.....\$407

BUILDING CONTRACTS

CONTRA COSTA COUNTY

JELLING
 T 2 BLK 10, Map of Crockett
 Lights All work for one-story
 wooden frame dwelling.
 Owner—Monte I. McDowell, Crockett.
 Architect—Not Given.
 Contractor—Peter H and Fred E.
 Wind, Crockett.
 Bld Mar. 25, '31. Dated Mar. 16, '31.
 Floor laid.....\$1250
 Clustering completed.....1250
 Completed and accepted.....1250
 Usual 35 days.....1250
TOTAL COST, \$5000
 Bond, for at least 50% of contract
 cost, Surety, American Surety Co.
 New York. Limit, none. Plans and
 specifications filed.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 March 25, 1931—FORD MOTOR CO.,
 Richmond. Southern Pacific Co
 vs Hutchinson Co fill with quarry
 waste tracks under construction;
 excavate for spur tracks (2 comple-
 tions).....March 15, 1931
 Bld Mar. 25, 1931—S 3/5 of a certain
 tract of land known as Brown
 Tract, Alhambra Union High
 School District to Heywood
 Wakefield Co.
 Bld Mar. 27, 1931—LOTS 22 AND 23
 Blk 45, Richmond Annex. Chas
 A Gritman to whom it may concern.....
 March 24, 1931
 Bld Mar. 27, 1931—LOT 19 Blk 304,
 Cornwall Subdivision, Pittsburg.

Frank M Billel to Horace J
 Sliino.....March 24, 1931

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 March 30, 1931—LOT 141, Mira Vista
 Highlands. M Elizabeth Kinnear
 and Gladys V Noble to Louis O
 Hansson.....March 25, 1931
 March 21, 1931—LOT 6 BLK 2,
 Amended Map of Portion of Blk
 A, Town of Rodeo. M B Mathias
 to whom it may concern.....
 March 20, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 March 24, 1931—LOT 18 BLK 12,
 Alvarado Tract, Richmond. Wm
 H Verbischo (as The Ideal Roof-
 ing Co) vs S Butler and Jane Doe
 et al.....\$79.50
 March 24, 1931—LOT 31 and S 1/2 Lot
 32 Blk 35, North Berkeley Terrace.
 McDonald's Elec Shop vs Henry
 F Block doe.....\$40
 March 24, 1931—LOT 3 and N 1/2 Lot
 4 Blk 8, Richmond Annex. Charles
 W Sanford vs T A and Jane Doe
 Perry and E D and Jane Doe
 Hopper.....\$16
 March 25, 1931—LOT 36 and N 1/2
 Lot 35 Blk 35, North Berkeley
 Terrace. L H Miltz, \$173.50; Berke-
 ley Bldg Materials Co, \$243.94;
 Marcus & Merrick, Ltd, \$143.88 vs
 Richard Weber.....
 March 27, 1931—LOT 7 BLK 4, Rich-
 mond Traffic Center. Thiden Lum-
 ber Co vs V and Florence O Nel-
 son; Frank Lawrence and C
 Vallie.....\$537.66
 March 28, 1931—LOT 26 and adjoining
 1/2 of Lot 35 Blk 35, North Berke-
 ley Terrace. Superior Tile &
 Products Co vs Richard Weber
 and W E Bockover.....\$39.14
 March 28, 1931—LOT 36 and N 1/2
 Lot 35 Blk 35, North Berkeley
 Terrace. M M Friedman vs Rich-
 ard and Ellen Louise Weber.....\$120
 March 28, 1931—LOTS 26 AND 27
 Blk 29, Henderson Tapscott Tract
 No. William A Taylor vs D A
 Arneson.....\$45.38
 March 28, 1931—LOTS 26 AND 27
 Blk 29, Anderson Tapscott Tract
 No. 1. Thiden Lumber & Mill Co,
 \$118.25; Sunset Lumber Co, \$19.31
 vs D A Arneson.....

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 March 24, 1931—LOT 4 BLK 4, Pro-
 cer Terrace, Santa Rosa. A C and
 Alice K Crosby to Mutual Home
 Builders Assn.....March 24, 1931

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
 March 28, 1931—HUNTER ST. AND
 Miner Aves., Stockton. Assoc-
 iated Oil Co to J A Allen.....
 March 21, 1921
 March 26, 1931—LOT 8 BLK 11,
 Pacific Manor. C G Dow to S C
 Giles.....March 26, 1931

BUILDING PERMITS

MARTINEZ

THEATRE, concrete and steel, \$15,000
 Escobar St., bet. Las Juntas and
 Court Sts., Martinez; owner, O. K.

Smith, Martinez; architect and
 contractor, O. K. Smith Martinez
 Constr SCo., Martinez.

BUILDING PERMITS

SACRAMENTO

RESIDENCE and garage, \$4950; No.
 1170 Robertson Way, Sacramento;
 owner, Land Drive Terrace, 819 J
 St., Sacramento.
 RESIDENCE and garage, \$5000; No.
 421 46th St., Sacramento; owner,
 R. Savage, Congress Hotel, Sacra-
 mento; contractor, C. Ruby,
 4800 T St., Sacramento.
 RESIDENCE and garage, \$5000; No.
 420 36th St., Sacramento; owner,
 P. McHugh, San Francisco; con-
 tractor, C. Thompson, 1720 38th
 St., Sacramento.
 RESIDENCE and garage, \$5000; No.
 450 45th St., Sacramento; owner,
 A. Nero, 2615 P St., Sacramento;
 contractor, A. Froling, 1625 40th
 St., Sacramento.
 RESIDENCE and garage, \$4000; 3465
 38th St.; owner and builder, S.
 Bell, 3473 38th St., Sacramento.
 ADD room, \$1000; No. 2672 Montgo-
 mery Way, Sacramento; owner, W.
 H. Moreland, Premises; contrac-
 tor, W. E. Tuedesdale, 2116 H St.,
 Sacramento.
 SIGN, \$2000; No. 1000 Alhambra St.,
 Sacramento; owner, Alhambra
 Theatre, Premises; contractor,
 Sterling Elec. Co.; 907 8th St.,
 Sacramento.
 RESIDENCE and garage, \$5200; No.
 1180 Perkins Way, Sacramento;
 owner, W. Phillips, 2101 9th Ave.,
 Sacramento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
 March 28, 1931—PTN LOT 22, Coyle
 City Acres. Lena Boaz Roland to
 whom it may concern. Mar. 19, 1931
 March 28, 1931—LOT 11, Carly Park
 H M Dunkel to whom it may concern.....
 March 28, 1931
 March 30, 1931—SACRAMENTO.

BUILDING CONTRACTS

FRESNO COUNTY

ALTERATIONS
 NO. 28 MARIPOSA ST. near Fulton
 St., Fresno. All work for altera-
 tions to Grand Central Hotel
 building.
 Owner—The Ka Ra Invest. Co., Prem.
 Architect—Not Given.
 Contractor—F. J. Stone, Mason Bldg.,
 Fresno.
 Filed Mar. 23, '31. Dated Mar. 21, '31
 On completion.....75%
 Usual 35 days.....Balance
TOTAL COST, \$1359
 Bond, \$1259. Surety, U. S. Fidelity &
 Guaranty Co. Limit, 12 working days.
 Forfeit, none. Plans only filed.

BUILDING PERMITS
FRESNO
 DWELLING, \$2200; No. 2228 Lotus
 St., Fresno; owner, George Smith,
 Jr.; contractor, Karl Gleim Sr.,
 5131 Nevada St., Fresno.
 DWELLINGS (2) and garages, \$3000
 each; No. 2228-2235 Van Ness Ave.
 Fresno; owner, D. D. Manhill.
 DWELLINGS, \$2300; No. 3812 Platt
 Ave., Fresno; owner, A. B. Laifer,
 3225 Montecito St., Fresno; con-
 tractor, C. Millhollen, West St.,
 Fresno.
 ALTERATIONS and additions, \$2351;
 No. 28 Mariposa St., Fresno; owner,
 Ka Ra Invest. Co., Premises;

contractor, F. J. Stone, Mason Bldg., Fresno.
 DWELLING, \$3000; 2163 Rose Street; owner, Peter Johannes; contractor, Henry Rosenthal.
 DWELLING, \$4000; No. 3303 Kerckhoff Ave., Fresno; owner, Lambert Lauridsen, 3235 Kerckhoff Ave., Fresno; contractor, A. M. Dame.

COMPLETION NOTES

FRESNO COUNTY

Recorded	Accepted
March 24, 1931—LOTS 37 AND 38	Blk 70, Sierra Vista Addn. No. 4, Fresno. A M Weathers to whom it may concern.....
March 25, 1931—LOTS 14 AND 15	Blk 2, Recreation Park Terrace. G I Dumond to Jack W Bandy.....
March 25, 1931—LOTS 13 AND 14, Fairland Addn.	G Fretzer to whom it may concern.....
March 26, 1931—LOT 3 BLK 55, Sierra Vista Addition No. 2, Fresno. A H Buckingham to L EdC.....	March 25, 1931
March 28, 1931—LOT 8 BLK 55, Sierra Vista Addition No. 2, Fresno. Thos V Griffith to whom it may concern.....	March 25, 1931
March 28, 1931—LOTS 32 AND 33	Blk 12, Belmont Addition, Fresno. Walter M Lynn to A S Longacre and A B Chase.....
March 28, 1931—LOT 14 BLK 4, Highland Park Addition, Fresno. Don L Davy to W H Richmond.....	March 28, 1931

BOULDER CITY BUILDINGS STARTED

Thirty buildings, each 16x24-ft., are being erected in the industrial zone of Boulder City, Nevada, to temporarily house the workmen who will erect The Six Companies' share of the permanent city and build the construction railroad in Black Canyon at the site of Hoover dam, which the contractors must provide to handle debris and materials on the project.

The 20 buildings will be ceiled and plastered. They are being erected on skids so that they can be moved later on into the residential section of the town and converted into dwellings for employes by putting in partitions and the necessary fixtures. Twelve men will be quartered temporarily in each of the buildings.

A mess hall to serve 350 men is also under construction. This will consist of three wings, each 24x32-ft., joined to a central kitchen. These wings are also being erected on skids so that they can be moved later to permanent locations and remodeled.

C. A. Williams of the Morrison-Knudson Co., one of the Six Companies, is in charge of the construction of the buildings.

BOLT AND RIVET ASS'N. DISSOLVED ON COURT ORDER

Dissolution of the Bolt, Nut & Rivet Manufacturers Association, Pittsburgh as a price-fixing body in restraint of trade was ordered March 17 by Judge Frank J. Coleman of the U. S. District Court in New York City. Counsel for the association, which is said to control an annual business of approximately \$75,000,000, equal to 95 per cent of the industry's output, agreed to the issuance of the order.

Practices forbidden include the compilation and use of preferential lists of customers and the fixing of prices in concert. The 50 members propose forming a new trade association which will meet the requirements of the government.

STEAM PLANT UNIT HALTED BY MERGER

"Construction of the San Joaquin steam plant on the San Joaquin river has been delayed at least one year by the merger of the Pacific Gas & Electric Company and the San Joaquin Light & Power Corporation. But it eventually will be constructed as planned in order to care for anticipated increases in power load."

This is the declaration of Executive Engineer L. J. Moore of the San Joaquin Corporation in response to questioning as to the effect of the acquisition of control of the San Joaquin by the P. G. & E.

Pressed for a reason for the deferring of work on the more than \$4,000,000 project, Moore said that additional power facilities made available through the tying together of the several power systems now controlled by the P. G. & E. has placed within reach sufficient electric energy as to make the San Joaquin river steam plant for the present unnecessary.

The present estimated lull in previously anticipated power consumption is apparently regarded as a comparatively temporary situation.

New orders for 516 steel boilers were placed in February, 1931, according to reports submitted to the Bureau of the Census by 74 manufacturers, comprising most of the leading establishments in the industry, as compared with 593 boilers in January, 1931, and 873 boilers in February, 1930.

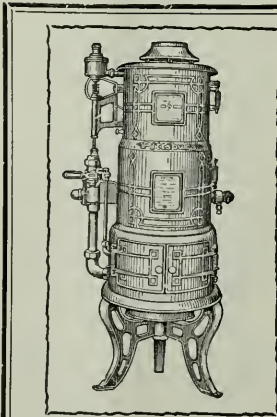
John Eatch of the Brown-Eatch Construction Company, engaged in grading a terminal yard for the Great Northern Railway, five miles south of Bieber, Lassen County, was fined \$30 by Justice of the Peace Philibert when he pleaded guilty to the charge of violating the labor camp sanitation act. Eatch was charged with housing workmen in insanitary quarters and making no attempt to keep the bunkhouses and grounds clean.

An investigation to determine the form of the water table and its annual fluctuation in an area of about 400 square miles in the lower part of the drainage basin of the Calaveras River, California, has been conducted since September, 1926, by the United States Geological Survey, Department of the Interior, in co-operation with the City of Stockton. A short report has been prepared by George H. T. Lor and Thomas W. Robinson, discussing the water table and giving tabulated measurements of depth water in 80 observation wells for September and April of each year since the investigation was started. The report includes maps showing the location of movement of the ground water, the position of the water table in September and April of each year, and the depth to the water table in September, 1929. This report, together with the maps, is now open for public inspection at the office of the city engineer of Stockton and the office of the United States Geological Survey, Lodi, Calif.

Howard G. Bissell, architect secretary of the Stockton City Planning Commission, addressed the Central Labor Council of Stockton Monday evening. Bissell explained features of the new city planning ordinance for Stockton, now being drafted.

Woodcraft Manufacturing Co., manufacturers of display fixtures, opened showrooms at 720 Mission with Miss Helen Whiting in charge. The company maintains a plant at Fourth Street, Oakland, under the direction of C. W. Stevenson, manager.

When the new Portland, Oregon telephone directory is issued in Spring, it will feature a listing of members of the Portland Association of Master Plumbers. The listing will be captioned with a preamble citing the standards of association membership. That's sensible and effective advertising.



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The House of **PERSONAL SERVICE**

DIFFICULTIES OF THE BUILDING INDUSTRY ARE DUE TO CHANGING CONDITIONS, SAYS BUSINESS CHIEF

By JULIUS SEIDEL

In addressing the meeting this morning, it became necessary to digress from the subject that was assigned to me, this to make an intelligent presentation of facts as to the why's and wherefore's, reasons, so-called, for the formation of the Construction Industries Division of the Better Business Bureau of St. Louis.

Your trade, namely sheet metal, is a part of the construction industry and you are to be complimented upon the desire to perfect an organization and continue to improve its usefulness to yourselves, your state and national association. It is my understanding that you have been organized about eleven years and that you have a membership of 110 in the state of Missouri.

The very first essential in forming an organization is a definite aim or objective. Generally speaking, an organization aims to correct abuses that develop and even multiply from time to time, and to decide upon a rational constructive method of commercial uplift. Humankind is so constituted and constructed that the majority desire to do that which is right and just according to their viewpoint. When such an individual contacts with men of and with similar motives, there is a communion which builds up respect and friendship; for it is well said that acquaintanceship begets friendship and friendship begets confidence and confidence begets business.

Confidence the Basis

Confidence is the very life line of our faith, whether it be in religion, in our government or in men. Associations must, therefore, begin with confidence in the men who are affiliated for a common good—confidence in each other and in accomplishing the work for which they are convened and from which they hope for improvement. In these endeavors we must not get away from the one fact that we are not born for ourselves alone, that our state, our friends and society demand and are entitled to some part of our ability and efforts. Now, all men are not leaders and that being so, it often becomes necessary for men of talent to accept the responsibilities and also penalties of leadership. The difficulty is to find the leaders and when that is done, for those whose interests they have at heart and whom they desire to help, and do help, to stand steadfastly by them so as to make their burden lighter and their duties more pleasant.

With a life of experience in organization matters I would say that, since to err is a human failing, it is always well to openly and freely discuss mutual interests when in caucus or attending conferences and not when away on the side lines.

The individual today is unable to successfully cope with the quickly changing business and economic conditions in his field and must organize and contact with his competitors to make his calling or trade one that has the respect of his fellow-members as well as that of the business world and the interlocking industry of which he is a component part.

Too often men are prone to consider an association as a price-fixing medium. If that were the object, you would fail of progress and success, because the inefficient would, in order to remain in business, need the aid of the efficient. It would be purposeless because by helping the inefficient to

Mr. Seidel is chairman of the Construction Industries Division of the Better Business Bureau of St. Louis. The address published herewith: "Modern Trends in the Building Construction Industry and the Necessity of a Broader View on Operation," was delivered before the Missouri Sheet Metal Contractors Association at Saint Louis, February 25, 1931.—Editor.

add and maintain a profit, it would be encouraging incompetency.

Efficiency in Production

Present-day methods of organization are based upon study of overheads. To stay in business you must produce efficiently and as a natural consequence cheaply. Comparisons and experiences reduced to positive fact-finding go to build up definite savings in which the public is concerned and participates. Profits can be made by surveys far more dependable and permanent than by the outlined trade pooling. You must be willing to determine overhead costs of doing business by your books and pay for the knowledge. These surveys are not considered expense, but are a definite part of overhead in doing business. This suggestion is one that can be applied to business associations generally and more particularly to mechanical trades.

Mechanical trades are too prone to get on getting out the mechanical work with utter disregard of systematized accounting and the allocating of expense in so doing. Associations are the means of changing these conditions and prove their wisdom and they only, for the following reasons.

Individuals who know costs and have ability in their line are beset by the competition of those who do not know them. Hence, success or failure is predicated upon a comparison and study of problems by the men engaged in a similar field.

Now there is another point that is of grave importance, namely the interlocking responsibility to others with whom you do business, trade and co-operate. The maker of the raw materials which you use certainly expects you to assist in promoting the use of his material, and no one can be enthusiastic about a business that does not prove a success. He expects you to be a success and whether or not you believe it selfish, has a right to that opinion because it is sound. The manufacturer of raw products does in these times seriously consider the ultimate consumer and feels that the final user of a fabricated product is the one who must be considered for continued desire and repeat orders. The public, hence, is the all-deciding factor for a product. The raw products of forest, mine and soil used in building materials are interested in and vitally affected by the actions of the factory, producer, contractor or merchant. In the final distribution of a finished product to the ultimate consumer.

Formerly the customer sought his source of supply, today the source of supply seeks the customer. You see from this that you, as the user of building operations, owe an obligation to others, as they in turn do to you. I sometimes believe that the building business is an uncontrolled industry in many of its workings, caused by changing of conditions.

There was a time when the carpenter was the boss on house building, and consequently so because at that time buildings were largely constructed of wood. However, new materials for identical purposes were brought forward and became fair competitors for the business. This created new trades. As this is an age of specialists, quite naturally the building trades became specialized trades and we created new trade lines. The general contractor today might be identified with many lines such as the carpenter, bricklayer, mason, concrete worker or structural iron manufacturer, since any one of these lines might, with perfect consistency, have the major contract. So the subcontractor became a master of his own trade, working, however, under a general contractor.

Complexity of Modern Building

In my survey I found about 33 major lines, consisting of material dealers and contracting groups, employed on a house. Just imagine how complex the building business has become. The complexity of this situation has been apparent for many years and while the erection of large buildings was under control and supervision, generally speaking, of technical men by which I mean engineer or architect, it was not so with the small dwelling. The housing of our people had, under the general idea of mass production, brought out the same urge in buying a finished house and as a result in boom periods, we found that in our respective lines—whether contracting, material or financial groups—we are beset with a new competitor—that of the uninformed and inexperienced and those who had engaged temporarily in a line for the money that could be earned or made out of a stable business while conditions were above normal. The "Jerry-built house" was the result of these conditions.

We must consider building today from the standpoint of a complete unit—the finished house ready for occupancy—since that is the way the public buys and will continue to buy as far as the masses of our nation are concerned. Then again, we must create the desire to buy a building, make it one of our main objectives, and this desire must find its boost through the firms engaged in the various contracting lines and manufacturing or selling, as all are a part of the building business.

Naturally, therefore, we find it necessary to create and establish confidence in our lines and the building business as a whole, and we must so educate the buyer and assist him to decide wisely and well in his purchases. Selling of buildings, whether for homes or investment, needs our earnest attention and help.

It was after a survey of cause and effects that we had to conclude how we could correct the existing conditions referred to. We concluded that the Better Business Bureau could be instrumental in clarifying the atmosphere if they would co-operate with us. You ask why the Better Business Bureau? Because we believe in their ideals as best expressed in their own words: "To promote and maintain fair competition and dependability in advertising and selling and to protect the public against misrepresentation, deception and fraud." The building

**EMPLOYMENT IMPROVING
SAYS STEEL INSTITUTE**

A marked improvement of business in the steel construction industry is fast eliminating the employment emergency in that group, according to a statement received by Colonel Arthur Woods, chairman of the President's Emergency Committee for Employment, from Charles N. Fitts, president of the American Institute of Steel Construction.

"With the opening of spring construction," says Mr. Fitts, "the firms reporting to the American Institute of Steel Construction state that their hours of labor, number of working days per week, and total pay roll have consistently increased, and if continued at the present rate, will be back to normal again by the beginning of summer. Our employment outlook has been greatly improved by the tonnage lettings which have been heavier during the first three months of 1931 than during the same period of 1930."

"During the peak of the depression, which was reached in the winter months, drastic measures were adopted by the steel construction industry to retain as many men as conditions permitted. Now that improvement is setting in, our member companies are able to return to a more normal regime."

"One firm in the South writes: 'About six or eight months ago we cut down our shop hours from nine to seven per day. About six weeks ago, however, we increased the time to eight hours per day due to improvement in our business. In the office, in an effort to reduce overhead, for a period of about two months we laid off two employees at a time without pay. Now that we are busy, we have discontinued this.'

"From New England, a report was received stating: 'We have discontinued making cuts in our force and are holding our organization intact in the hope that business soon will improve. We are inclined to believe that things already are on the mend.'

"Following are some of the practices applied by steel construction companies during the depression to keep employment at a maximum. A firm in the West adopts the expedient of working in six-hour instead of eight-hour shifts. In Pittsburgh, the office forces were held intact, but some firms reduced the shop force to four-day weeks. On the West Coast, the shop force was put on a 44-hour week and workmen rotated on the jobs. In other cases, the work week was reduced to 40 hours. In the Middle West, where the slump was for a time most acute, plants adopted the practice of using the men on repairs and plant improvements."

"Full recovery will mean the re-employment of about 10,000 persons who have been out of work, and will increase the working hours of about 15,000 who have been on part time. Normal employment in the steel construction industry is about 40,000."

This is the second report received by the President's Emergency Committee from the American Institute of Steel Construction. More than 100 other industrial groups are cooperating with the committee and similarly have been applying emergency measures to the successful maintenance of employment.

J. R. Wilson, a former executive of the Labourers-Electric Co., plumbing and electrical contractor of Sacramento, will return to that city about May 15. Since leaving Sacramento about a year ago Wilson has been managing the Fred J. Kiesel estate in Ogden. He will still be connected with the Kiesel interest upon his return.

dustry can wholeheartedly subscribe those fundamental ideals.

Our industry represents groups, concerned with their own groups. In fact, say, the respective groups are not well organized, and as a result chaotic conditions exist which are reflected in the building business as a whole. The building business as a whole is strongly affected, as in any other line of business, by the shortcomings of the few.

Other lines were helped by the bureau because the bureau represented a public and public opinion is a motivating force to be reckoned with. The Building Construction Industry, when accepted, became a part of a bureau. Six directors of our division are active on the board of 65—outstanding business executives. We do have the experienced advice of engineers to determine proper policies, and with the aid of the Building Construction Industry. This board represents financial and manufacturing and merchandising—in short, business interests of all kinds interlocked, yet coordinated for the common good.

Our first problem was the necessity of determining some standard of measure, or yardstick, to evaluate the investment in building. We failed to find any textbook on the component parts of an entire building. Our job was definitely determined to be one of finding out what a building is through which all factors could be welded together to make up a finished building, erected and ready for occupancy. We needed a textbook of fundamentals, covering every major line of material, including contracting groups, and that written in language to be understood by the layman. We appreciated fully at not until that work was done could there be a minimum of standards to enable the bureau to separate and place building in a class of good, and indifferent.

Determining Standards

To accomplish this aim, to prepare such a treatise, meant organizing the respective groups to reach a common understanding as to what should be a law of good practices. We decided on preparing and issuing "Good Practice Specifications."

Progress necessarily was slow. We organized material dealers, contractor groups, and quite naturally included the professional men—architects, engineers and general contractors. The department of public safety and the building commissioner were our conferees and proved most helpful. Finance being the keynote of any business arch, we concluded that the financial interests which were concerned as a part of building finance should be invited to sit in on our group and so the mortgage bankers, building and loan associations, and real estate interests voted a representative director to our body.

Our group organization comprises five professional, three finance, six contracting and eleven material dealer rectors.

The result of our labors, covering major lines, meant the adoption of 27 specifications required for the erection of a complete building. The work required over a year for completion at a cost of over \$20,000, underwritten by individual and group support. No man on the board of directors received any compensation, but accepted the grave responsibility for the erection of the cause—that is, to help building operations to correctly function under the control of a supervising body.

Good Practice Specifications

On December 9, 1930, we had our meeting, the construction industry, at which time the "Good Practice Specifications" were released. We have made a local job with a national significance. Since that date trade organizations have commented very favorably on the constructive benefits of what we have done and organizations are

parting after us, who have blazed a trail.

We are concluded to cover the field of small dwellings first, as that field needed urgent help and involved the greatest public interest. Elements of safety, permanence and attributes in material and workmanship inherently essential to all good building construction is fully covered.

The endorsement of the American Institute of Architects, St. Louis Chapter; Society of Engineers, Associated General Contractors, Master Builders, Department of Public Safety, Mortgage Bankers Association and Building and Loan Associations should be a guarantee of the correctness of the practical and technical work, not to forget the approval of financial interests.

We have all sensed the necessity of interesting the public in building work as a means much to determining good times or bad times to our people. Building operations, directly and indirectly, give employment to our mechanics, but in our survey we must not be unmindful of the influence of building operations on the manufacture of building material involving clay products, steel, lumber, cement, roofing, glass, paint and the like, not to mention the furnishings when a home is occupied.

We are still organized, for we have completed but part of our work. We want you to realize what we collectively have done for the building construction industry as a whole. To improve conditions you must take yourself seriously and feel that you do have obligations to others when working for the general good. Industry is helped by all pulling at the tow line. Applause means little when you all fail to co-operate or withhold moral or financial support.

**S. F. UNEMPLOYMENT
REPORTED ON DECREASE**

Decrease in average monthly employment and payrolls of manufacturing establishments during 1930 was less in San Francisco than in other parts of the state, according to statistics made public by the State Employment Control Committee.

San Francisco County's decrease in employment was 5 per cent, against 12.7 per cent in the remainder of the state, and the decrease in payrolls was 4.9 per cent in San Francisco to 15.9 per cent in the rest of California.

Decrease in Los Angeles County was 12.7 per cent in employment and 18.1 per cent in payrolls. This is accounted for in the report by the greater expansion of manufacturing activity in Los Angeles during 1929.

**ROAD BILLS GET
ASSEMBLY APPROVAL**

Two bills designed to facilitate arrangements between counties and the state and federal governments for the betterment of roads have been given the approval of the assembly roads and highways committee and sent to the floor for action.

One of them, S. B. 289, permits counties to spend money outside their boundaries in co-operation with the federal government. The bill is wanted particularly by some of the mountain counties.

The other, A. E. 58, provides the machinery for co-operation by the state with two or more counties in building roads.

The committee recommended adoption of two resolutions by Assemblyman George M. Biggar calling for an investigation of grade crossings and for an additional survey of secondary roads.

THE OBSERVER

What He Hears and Sees on His Rounds

The Federal Trade Commission has announced completion of the task of reviewing the rules of business practice adopted by nearly 80 industries at trade practice conferences held at various times, mostly in the last five years. The rules for each industry will be announced separately after each industry has been given an opportunity to adopt changes made by the commission.

The nationwide average hourly rate paid skilled building mechanics is \$1.35 1/2, compared with \$1.32 1/2 a month ago and \$1.37 1/2 a year ago, according to Engineering News-Record. The average common labor rate is 53.59 cents compared with 53.71 a month ago and \$56.46 a year ago.

Proposed amendments to the Manitoba Architects' Act under which plans and specifications for public buildings costing over \$10,000 were to be prepared by a registered architect or engineer, were recently thrown out by the Law Amendments Committee during the second session of the Legislature, Western Canada Contractor reports. The clause defining grounds of proof for offences under a statute in respect to unregistered architects was passed and the Bill as amended was ordered to be reported to the House.

Proposal that an eight hour day on public works in Contra Costa be made effective, that citizens or declarants for citizenship alone be employed and that a pay scale equal to the highest in private work be operative is constitutional, District Attorney James E. Hoy has informed the Contra Costa County Supervisors.

Hoy's opinion was given on a resolution proposed for adoption by Supervisor James N. Long of Richmond as a means of insuring favor for Contra Costa County labor and materials on county projects and other public building work.

Hoy informed the board that the citizen employment provision is now embraced in state law but that constitutionality of a provision that Contra Costa labor and materials be given preference is questionable. He said, however, that such a provision might be embraced in the resolution and that if objection should arise it would be up to the objector to sustain his attack.

Other provisions of the Long resolution, the district attorney said, are legal in his opinion.

The section of favor to labor and materials may be cleared up, however, through possible passage by the legislature at this session of a law that would permit boards of supervisors to allow a five per cent differential in prices in favor of county firms.

The business handled during 1929 by the 1923 wholesalers in San Francisco handling lumber and building materials, according to census bureau data, amounted to \$83,459,354, or 5.28 per cent of the total volume of wholesale business in that city, paid their 1155 employees salaries and wages of \$3,013,292 and had stocks on hand at the end of the year worth \$11,364,884. The 39 wholesalers handling lumber alone did a business of \$33,718,520, paid out more than \$1,000,000 in salaries and wages to 392 em-

ployees and had stocks at the end of the year worth \$4,151,360. Three wholesalers handling millwork reported a volume of \$3,622,304, paid 49 employees \$167,373 and had stocks worth \$226,340.

The attention of contractors is directed to the Nevada statute regarding public works contractors which was passed by the 1931 State Legislature. This law requires all public works contractors to secure a license prior to engaging in the business, or acting in the capacity, of a public works contractor in the State of Nevada. The State Controller of the State of Nevada, Carson City, Nev., is made registrar of the contractors. An application for the license must be made through his office. The license fee is \$200 for the first year and the renewal fee is \$100. No proposal for highway work will be accepted by the State Highway Department unless the contractor has secured the necessary license.

Building conditions throughout the nation show a slight general improvement, but the recession from the dormant state of the building industry of the past 16 months is reflected largely in the construction of public type of building and not in homes or industrial building.

This opinion was expressed by E. M. Craig, the Executive Secretary of the National Association of Building Trades Employers, after completing an analysis of reports from builders in forty principal American cities.

Mr. Craig stated the construction industry today is largely dependent upon federal, state and municipal construction to tide it over until there is renewed activity in construction on an extensive program of homes and other types of building. He points out that since December 1, 1930, the federal government has awarded approximately one billion dollars in contract for work. Mr. Craig said this federal reservoir has materially cut unemployment among the building artisans of the country, and prevented the entire building from becoming almost totally dormant.

Mr. Craig declares the recovery of the stock market has been slow and lags behind the desire of prospective builders to retrieve some of their losses and accumulate sufficient surplus to finance building. Banks, he says, have been holding paper on property which became frozen with the general industrial depression.

"Banks are in the strongest position they have achieved since the depression started. They are simply able to finance any improvement in business. The Federal Reserve Board issued a formal statement to that effect this week," says The Business Week, in reporting developments for the week ending March 28. "This is the first clear statement from the board which has indicated that it feels better about the banks' condition," the publication continues. "Some observers read into it the natural implication that the board is now assured the business that expansion ought not to find any obstacle at the bank. The fact that the board should make such a statement is regarded as highly significant."

Reports of new orders for fabricated structural steel for the week ending March 14, 1931, were received from 11 establishments, whose capacity represented 51.0 per cent of the total capacity of all plants in the United States. The bookings reported in these establishments amounted to 19,798 tons, representing 42.1 per cent of the total capacity of the reporting establishments. Reports of shipments of fabricated structural steel for the same week were received from 104 establishments, whose capacity represented 49.3 per cent of the total capacity of all plants in the United States. Shipments reported by these establishments amounted to 23,344 tons, representing 52.4 per cent of the total capacity of the reporting establishment.

Having been directed by the United States Senate to investigate the competitive conditions in the cement industry, including the importation of cement, and to report the findings to the Senate, the Federal Trade Commission has delegated the details of the inquiry to its chief examiner, who will cooperate with the commission economic division, which has already obtained numerous data on the subject through its investigation of price bases. The Senate resolution calls for an inquiry concerning (1) the sale of cement, and especially the price activities of trade associations, (2) the distribution of cement, and (3) activities of the industry in the light of anti-trust laws.

After a brief hearing, the Senate mines and mining committee, tabled S. B. No. 744, by Senator R. R. Ing of Mendocino County, fixing an 8-hour working day for the employees in cement plants. The bill was approved by Senator George Cleveland of San Cruz County.

State Senator Holdiman of Arizona has introduced a measure providing a plumbing code to be under direct of the state board of health and an appointment of a plumbing inspector to receive \$2400 annually. Compensation for the inspector and other employees would be provided from fee to be charged for licenses.

Nation-wide agitation to pass an labor injunction laws in all industrial states where legislatures are in session is being carried on by state labor federations in conjunction with the National Committee on Labor Injunctions, headed by Charles F. Amidt former federal judge in North Dakota. Bills to prevent courts from issuing injunctions in labor disputes without giving both sides a hearing have been introduced in eight states: Kansas, Maine, Massachusetts, Minnesota, Missouri, South Dakota, Tennessee, and Wisconsin. These measures are based on a model anti-injunction bill sent out by the National Committee, and drafted by Nath Greene, New York attorney, co-auditor with Prof. Felix Frankfurter of a recent book, "The Labor Injunction."

An ordinance designed to regulate contractors engaged in municipal work to employ only residents of the city has been introduced to the Fresno city council by City Commissioner Finance William Glasgow. The ordinance provides that every contract which the city engages must provide that preference in employment shall be given to persons who have actually resided in the city at least six months prior to the date of the contract at that place. The ordinance shall mention in every city contract. If this clause is not observed the contract shall null and void.

TRADE LITERATURE

Accomplishments of the Pittsburgh Testing Laboratory, Pittsburgh, Pa., during the past 50 years are recorded in a 32-page illustrated bulletin issued by that company.

A 20-page bulletin listing supplies of arc welding, ranging from portable welders to protective clothing, has been issued by the Lincoln Electric Co., Cleveland, Ohio.

Colloy, a colloidal-type inert workability admixture for concrete, is described in form 291-C, a 4-page leaflet issued by the Colloy Products Co., 630 Chouteau Ave., St. Louis, Mo.

Principles of operation and fields of application for the Nuveyor ash-residue system are outlined in a 20-page illustrated bulletin of the United Nuveyor Corp., Old Colony Bldg., Chicago, Ill.

Two new lines of fittings made by a special process involving forging in two halves and then electric machine welding are described in a 12-page circular 236 prepared by the Crane Co., 836 South Michigan Ave., Chicago, Ill.

Advantages of Cleveland trammal installations on the exteriors of buildings to form a permanent window-washing system are outlined in a 4-page folder issued by the electric trammal division of the Cleveland Iron & Engineering Co., Wickliffe, Ohio.

An account of six recent tests held to demonstrate the resistance to fire of flame of fire-safe treated lumber is compared with untreated lumber in a 4-page folder produced by the Chesebro-Whitman Co., Inc., Long Island City, N. Y.

Catalog 14, issued by Sauerman Bros., Inc., 438 South Clinton St., Chicago, Ill., contains a detailed description of Sauerman power drag scraper equipment, accompanied by photographs and operating data. Various fields of activity in which this equipment is used is treated in separate chapters. The booklet contains 2 pages and many illustrations. An entirely new section on tower machines has been added, showing the latest improved mobile equipment for the construction of levees and embankments for any type of work where the scraper must make long continuous cuts or fills.

A twenty-three page, illustrated publication, titled, Banishing The Twilight Zone from Modern Buildings, and identified as A-1204, has been announced recently by the Westinghouse Lamp Company and the Westinghouse Electric & Manufacturing Company, and presents a discussion of present-day principles and practice in the interior lighting of modern buildings. The booklet discusses the reasons and means for raising the level of illumination in modern buildings to the point most beneficial to the ultimate consumer of light — the human eye. Considerable engineering data and photographs showing lighting installations in offices, lobbies, drafting rooms, bedrooms, and many other building interiors are included. The new publication has been assigned A.L.A. No. 11-F-232.

HERE—THERE EVERYWHERE

Unions of Dennison, Tex., requested a one dollar per day cut in skilled wages with common labor rates unchanged, according to Engineering News-Record.

Bricklayers at Atlanta, Ga., walked out on March 9 on strike because employers wanted a 20 per cent wage reduction and would not accept a 10 per cent cut.

Fiftieth annual convention and exhibition of the American Electric Railway Association will be held Sept. 26 to Oct. 2 at Atlantic City. The closing date for the receipt of applications for space at the exhibition is April 30.

Thirteenth annual convention of the California State Association of Master Plumbers will be held in San Diego, May 18-21, inclusive. Headquarters will be maintained at the U. S. Grant Hotel.

The Colorado state house of representatives, by a vote of 33 to 24, passed House Bill No. 171, providing for the licensing of plumbers and regulating sanitary measures.

Plans for a permanent home for the Santa Rosa Builders' Exchange, with a full-time secretary and exhibits of various products used in the construction of buildings, were laid at a meeting last week. A housing committee has been appointed to secure permanent quarters.

Manufacturers of the sheet metal industries will hold a conference and exhibit in Louisville, Jan. 25, 1932. The National Sheet Metal Contractors Association, the Roofing Division of the National Slate Association and the United Roofing Contractors Association will be held the same week at the same place. Warner S. Hays, secretary of the National Slate Association, Philadelphia, is chairman of the committee arranging details for the Louisville meeting.

The Building Trades Employers of New York City with over 300 members and the Building Trades Employers' Association of Boston, Mass., with 250 members, have become associated with the National Association of Building Trades Employers with headquarters in Chicago.

All labor in connection with the construction of the Hoover Dam will be employed through an office at Las Vegas, Nevada, established by the contractors, the Six Companies, Inc. It is announced by officials of that company that announcements followed a request that men be hired through California free employment agencies.

The Architects Small House Service Bureau, a professional, non-commercial organization with headquarters in Minneapolis, is selling newspapers a complete advisory and consultation service, with feature releases and other supplementary services designed to help the residential builder. Mats in various sizes for weekly release, giving plans and illustrations for houses, and a question and answer service, are also offered. The price of the service ranges from \$3 a week for papers of 10,000 or less circulation to \$15 for papers of over 250,000 circulation.

ALONG THE LINE

Henry C. Collins, architect, will be candidate for the office of city council at the coming municipal election in Palo Alto.

Geo. L. Simpson, 79, formerly connected with the Simpson & Roberts Planning Mill of Santa Rosa, died in that city April 1, following a paralytic stroke.

Edgar E. Elliott, 53, Sacramento roofing contractor, died in that city April 3. Death was due to a heart attack. Elliott was formerly connected with the Elliott Brothers Foundry of Sacramento.

John W. Roberts, president of the Puget Sound Bridge & Dredging Co., with headquarters at Seattle, has resigned the presidency of that company and will retire from business life, taking up his permanent residence in California.

Colonel O. B. Perry, consulting mining engineer of San Francisco, is one of six chemists awarded the honorary doctor of laws degree at Bloomington, Ind., in connection with the dedication of Indiana University's \$500,000 chemistry building.

O. W. Irwin of the Truscon Steel Co., Youngstown, Ohio, was elected president of the Concrete Reinforcing Steel Institute at the annual convention held in Biloxi, Miss., March 16-18. Charles M. Gunn of Gunn, Clark & Co., of San Francisco was elected vice-president. M. A. Eganman was re-elected secretary and Hugh J. Baker of Hugh J. Baker & Co., Indianapolis, was re-elected treasurer.

Emory E. Smith of Smith, Emery & Co., San Francisco and Los Angeles, consulting industrial and chemical engineers, was the principal speaker at the weekly luncheon meeting of the Sacramento Section, American Society of Civil Engineers, held last Tuesday in the capitol city. Harry Searns, president of the section, presided.

Appointment of C. W. Whitney of San Francisco executive secretary of the Purchasing Agents' Association of Northern California, as California representative of the American Standards Association is announced. Mr. Whitney will serve as a contact point between the industries of California and the American Standards Association. A file of the 181 national standards approved by the American Standards Association is maintained by Whitney for reference by local engineers and industries.

Cars and locomotives developed especially to meet the requirements of central stations and large industrial power plants are described in a 16-page bulletin of the Atlas Car & Mfg. Co., Cleveland, Ohio.

A discussion of the need for expansion joints and directions for installing these by means of the Flex-Plane and Cleft-Plane joint installing machines are given in a 12-page illustrated bulletin L-5 issued by the Flexible Road Joint Machine Company Warren, Ohio.

The Colorado state highway department will require contractors to pay a minimum wage of 50 cents for common labor on road work and to state the rate in submitting bids.

TRADE NOTES

Schneider, Chappell & Jones, paint firm established in Sacramento for twenty-seven years, will lose its identity about May 1st, when a consolidation with W. P. Fuller & Company becomes effective. The announcement is made by W. J. Argall, co-owner of the business of the old Capital City concern and manager of the store for the past twenty-four years. Argall will become identified in a new wallpaper department of the Fuller Company.

Browning Crane & Shovel Co. is the new name adopted by the organization formerly known as the Browning Crane Co., Cleveland, Ohio. There has been no changes in personnel or products.

King Lumber Company has purchased the Wasco Lumber Co. at Wasco, Kern County. The latter concern was operated by A. R. Carter who assumed control last January from the Wasco Creamery & Construction Company.

Planning mill of Burnett and Sons of Sacramento, will be located after May 1 on a site bounded by Tenth, Twelfth, B and C Streets. Leroy J. Miller is manager of the company.

Electric Equipment & Repair Co., announces the opening of a plant in El Camano Real opposite Selby Lane, Redwood City, for the design and manufacture of wrought iron hardware.

Owens-Illinois Glass Co., Ltd., of San Francisco, has been incorporated. Directors are: Wm. E. Lewis, H. G. Phillips and Harold Boeschenstein.

Charles A. Robertson, for twenty years engaged in industrial engineering, designing, production and sales work, has been appointed western district manager of the Novo Engine Company of Lansing, Mich., with headquarters at 465 Bellevue Avenue, Oakland. The Novo Engine Company manufactures Novo pumps, engines and hoists.

BUILDING TRADES EMPLOYERS ELECT

O. W. Rosenthal of Chicago, was elected president of the National Association of Building Trades Employers at the annual conference of that body in Washington last month. Other officers are: C. G. Norman, New York, first vice-president; A. J. Schutz of Pittsburgh, second vice-president; R. A. Whidden, of Boston, third vice-president; A. C. Preble, of Chicago, treasurer. E. M. Craig of Chicago was re-elected secretary.

Members of the Executive Committee of the association are: David T. Riffe, Pittsburgh; W. P. Carroll, Cleveland; J. O. Barnett, Cleveland; Max Baumann, New York; P. W. Eiler, New York; E. M. Craig, Chicago.

Building permits in Palo Alto for the month of March involved an expenditure of \$85,775, bringing the total operations for the current year to \$322,475.

Pridgefurd Planing Mill at Sebastopol, Calif., was destroyed by fire last Sunday morning.

\$17,536,874 IS PACIFIC COAST BUILDING EXPENDITURE IN MARCH

Building permits issued in the Pacific Coast states during the month of March, 1931, totaled 8,840, involving an expenditure of \$17,536,874, as compared with \$26,734,220 for the corresponding period in 1930. The following is a complete report of the March, 1931, activities together with the month of March, 1930, as reported by municipal building department executives in the cities listed:

CALIFORNIA

City	March, 1931		March 1930
	No.	Cost	
Alameda	47	\$ 96,677	\$ 138,844
Albany	23	48,218	37,705
Alhambra	59	239,150	222,000
Anaheim	15	31,276	35,471
Bakersfield	63	121,649	101,821
Berkeley	88	128,009	411,551
Beverly Hills	79	367,450	507,000
Burbank	23	38,370	41,121
Burlingame	12	51,200	160,666
Carmel	15	16,555	6,401
Chula Vista	10	15,000	5,575
Colton	9	3,650	13,900
Compton	18	33,765	41,561
Coronado	9	8,100	11,877
Culver City	16	25,339	99,881
Emeryville	5	17,500	4,500
Eureka	26	17,250	82,377
Fresno	116	116,920	85,352
Fullerton	14	16,375	80,480
Glendale	149	332,740	327,811
Hayward	6	82,597	97,540
Huntington Park	45	67,385	274,626
Ingewood	45	62,550	52,891
Long Beach	294	585,585	1,178,855
Los Angeles	2,609	4,272,107	7,026,321
Lynwood	21	28,235	82,538
Modesto	31	61,341	60,425
Monrovia	19	14,603	47,600
Monterey	21	30,479	36,400
National City	14	7,115	14,775
Oakland	276	967,545	1,132,082
Oceanside	10	5,488	9,075
Ontario	19	19,075	48,015
Orange	17	16,020	36,200
Pacific Grove	15	21,175	21,170
Palo Alto	84	85,775	111,830
Palos Verdes Estates	3	23,100	35,200
Pasadena	356	298,479	328,115
Petaluma	2	2,125	32,975
Piedmont	7	29,985	32,476
Pomona	62	216,980	84,730
Redlands	18	14,680	21,583
Redwood City	41	125,735	60,675
Richmond	40	90,645	56,855
Riverside	65	35,847	133,384
Sacramento	149	308,045	311,044
Salinas	45	89,125	74,337
San Bernardino	74	94,064	98,520
San Diego	351	644,875	473,960
San Francisco	556	2,090,129	3,502,312
San Gabriel	11	25,050	57,875
San Jose	92	207,035	243,955
San Marino	15	155,043	214,434
San Mateo	10	74,722	176,550
San Rafael	11	15,250	81,630
Santa Ana	57	107,585	157,605
Santa Barbara	102	333,538	347,231
Santa Cruz	32	32,410	35,900
Santa Monica	71	130,455	151,650
Santa Rosa	19	39,350	20,975
South Gate	38	37,065	221,130
South Pasadena	23	23,359	42,600
Stockton	53	134,457	134,841
Torrance	4	8,700	26,350
Ventura	10	78,925	36,700
Vernon	10	26,700	107,321
Watsonville	22	82,260	33,795
Willow Glen	24	76,750	53,300
Total	6,598	\$13,670,616	19,995,153

ARIZONA

Phoenix	64	\$ 908,629	\$ 93,030
Tucson	118	91,569	328,635
Total	182	\$ 1,000,198	\$ 421,665

IDAHO

Boise	62	\$ 35,892	\$ 56,017
Lewiston	23	43,805	39,640
Nampa	27	9,165	32,650
Total	112	\$ 88,862	\$ 128,307

NEVADA

Reno	34	\$ 63,400	\$ 81,425
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OREGON

Albany	7	\$ 14,665	\$ 5,700
Ashland	4	4,300	13,465
Corvallis	15	17,900	65,000
Eugene	66	26,246	304,352
Klamath Falls	45	30,100	101,170
LaGrande	19	10,675	25,500
Marshfield	6	4,025	11,400
Portland	468	677,750	1,321,070
Salem	39	23,363	158,706
Total	659	\$ 814,934	\$ 2,003,363

UTAH

Logan	5	\$ 17,100	\$ 146,100
Ogden	6	11,300	39,600
Salt Lake City	97	147,839	25,920
Total	108	\$ 176,239	\$ 534,720

WASHINGTON

Aberdeen	12	\$ 6,220	\$ 92,095
Bellingham	27	31,385	59,225
Everett	62	10,930	31,210
Hoquiam	7	490	29,255
Longview	3	1,400	2,147
Port Angeles	19	34,765	49,365
Seattle	620	802,225	2,615,810
Spokane	208	233,520	246,890
Tacoma	182	385,620	213,185
Vancouver	21	24,495	35,550
Wenatchee	31	61,915	130,320
Yakima	54	101,895	68,005
Total	1,147	\$ 1,723,435	\$ 5,568,537
Grand Total	8,840	\$17,536,874	\$26,734,220

WAGNER BILL TO STABILIZE BUSINESS

Enactment at the last session of Congress of the Wagner bill for the advance planning and regulation of public construction has placed in the hands of the President of the United States a sure means of maintaining general business stability in the future, officials of the Associated General Contractors of America declare.

With a six-year advance plan of public construction laid down in detail, as required by the new law, several billion dollars worth of business will always be in reserve to be thrown into the breach as needed when business begins to lag, the contractors pointed out.

"The theory of using the construction industry as a business balance wheel—of accelerating this work in times of depression—has been generally accepted for more than a decade," A. P. Greenfield, president of the association, explained, "but the available means of acceleration heretofore have been too slow to be entirely effective."

In the past, he said, it has required months of preparation before any great amount of additional government construction could be brought to the job stage and under these conditions the best that could be hoped was that acceleration might pull the country out of a depression which slow pick-up presented it from avoiding. Under the six-year advance planning, however, a sagacious and well-advised chief executive, with the co-operation of Congress, will be able to apply the necessary stimulus before the slowing down of business is generally appreciated, legislators feel.

Members of Mr. Greenfield's cabinet also pointed out that, following the example of the Federal Government, the establishment of similar advance planning procedure is expected to be provided for in 18 states by the present legislative session. They also believe that advance planning of private construction will be given greater consideration than in the past.

TRADE EXTENSION WILL BE MAIN TOPIC AT LUMBER MEET

The Twenty-ninth Annual Meeting of the National Lumber Manufacturers' Association will be held at the Congress Hotel, Chicago, April 22, 23, and 24, with a plan for the continuation of organized lumber trade extension activity as the most important topic for consideration.

The business depression now believed to be drawing to a close marks the end of an industrial period and the beginning of a new one, it is pointed out by economists. A salient phase of the new epoch will be more intense competition than which characterized the last decade. It will be a period of lower and descending price levels, narrower margins of profit and greater rivalry between materials. It will be marked by increasing favor for research and merchandising genius and the administration of business on the basis of scientific facts.

These and other factors which might be mentioned will make the next few years a period in which every industrial group, as well as individual industries, will have to avail themselves of every weapon, actual or potential, in their trade battle armory if they may hope to get their share of the business. The first four years of lumber trade extension work have "held the fort" for lumber and established the broad outlines of an organization that can be made much more effective hereafter if there are adequate snows of war and sufficiently general support of the work throughout the industry. It is considered probable that under the circumstances, notwithstanding discouragements of the moment, the leaders of the lumber industry will take a firm stand at the Chicago meeting for better and more aggressive trade extension effort. An outlined plan for the years following 1932 will be presented at the meeting by the Trade Extension Committee and the Board of Directors.

Another subject on the program is that of improving cooperation between national and regional and species groups in projects for realizing a larger total use of lumber. The underlying thought is that without a better coordination there is a tendency for competition between lumber groups to result merely in a larger field for competitive materials and less for lumber. The Technical Ad-

visory Committee meetings tentatively consider this and other vital questions.

A third topic of obvious importance will be means of enabling member companies to make better individual use of results of trade extension both national and regional.

A fourth subject for consideration will be a plan of campaign to be carried out during 1931 to obtain more general support for trade promotion by all the categories of the lumber industry and trade, such as timber owners, the various classifications of lumber manufacturers and processors, the distributing groups and the wood consuming industries.

Another vital subject which will become more and more important in the near future is that of cooperation with the new U. S. Timber Conservation Board.

Wilson Compton, secretary and manager, will submit an analysis of the present economic situation of the lumber industry and will outline affirmative action needed. This discussion will fall under two general heads, namely, (1) maintenance of the lumber industry's organized research and promotion work, and (2) the means of correcting the results of over-production and preventing its recurrence, scheduled to begin April 17 will also

OPEN WEB STEEL JOIST SIMPLIFIED

Simplified practice recommendation E94-20 covering open web steel joists is now available in printed form, and can be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C. for 5 cents a copy, according to the division of simplified practice of the Bureau of Standards.

This recommendation is confined to joists between 8 and 24 inches in depths and not longer than 24 times their depth, and specifies properties and allowable loads in pounds per linear foot. In establishing this simplified list of definite depth dimensions, it was necessary to include designations, stresses, resisting moments in inch-pounds, and maximum end reaction in pounds.

Federal Court Holds Neon Rights Infringed

Neale Inc., infringed the right of the Electrical Products Company to manufacture, use and sell Neon lights in California, Oregon and Washington, Federal Judge George Cosgrave of Los Angeles, ruled last Saturday in a decision that may result in the award of damages aggregating several hundred thousand dollars.

Edward G. Neale and Thomas N. Neale, who, the decision said, own all stock of Neale Inc., are liable for damages caused by infringement and sale of the product, Judge Cosgrave ruled.

At the same time the judge held that Harry H. Greer, a creditor of the firm, and also named in the complaint, is not liable for damages.

Another hearing will be held later in federal court, after which the exact amount of damages will be determined Judge Cosgrave said.

In his ruling, the judge held that the Electrical Products Corporation was licensed by the Claude Neon Lights Inc., exclusively to sell Neon lights in the three states named.

Patents titles vested in the Claude Neon Lights Inc., were clearly infringed by the Neale company, the decision held, through use of the Neon process in the manufacture and distribution of signs sold and distributed in western territory.

HOUSING RESEARCH IS URGED FOR BETTER AND CHEAPER HOMES

Factory-made houses again break into the news with a report of the Regional Plan of New York in which Grosvenor Atterbury urges the formation of a research institute for economic housing, says Business Week. Mr. Atterbury believes that standardization and mass production would cut housing costs at least 50 per cent, with increased values. This estimate is based, to some extent, on an experimental development of 40 houses in which a factory-made wall section, 9x15 feet, cost \$45 erected compared with \$85 for a similar section of conventional brick or terra cotta wall.

The ready-cut house has been exploited for years by various companies. It was taken up aggressively last year by Sears, Roebuck and Montgomery Ward. In this type of construction, factory machines replace all hand cutting and fitting on the job. Actual erection varies little from conventional practice.

Another method has been evolved by the Steel Frame House Co. (McClellin-Marshall subsidiary), in the substitution of factory-cut steel-frame members for conventional wood. Fire-proof insulating materials are employed for sheathing and interior partitions; floors are laid on a concrete base. This company for several years has offered to furnish its standard materials for houses of any design; recently it has developed a standardized, complete factory-built, small steel frame house for delivery by truck to the building site.

The chief difficulty in adapting steel to house construction has been the utilization of conventional building materials for houses of any design; recently it has developed a standardized, complete factory-built, small steel frame house for delivery by truck to the building site.

Mr. Atterbury believes that old methods should be scrapped boldly and entirely new building types de-

veloped, using modern materials and practices. T. J. Foster, chairman, National Bridge Works, says that, without the development of any new materials or methods, it is possible to provide, for less cost than is customary, houses with the following general specifications:

Steel framework, strong and rigid enough to take all stresses; partitions and floors of cementitious material to take only local stresses and transfer them to the frame; exterior material of mineral origin, fire and water-proof; exterior walls and roof insulated against heat, walls against sound, partitions against fire and sound.

Such construction would ensure structural security, safety from fire, economy of upkeep, permanence, protection from vermin, comfort in winter and summer. To accomplish these desirable results, Mr. Foster and Mr. Atterbury contemplate making full use of steel and pre-cast materials. Vertical steel frame members would be placed on 9 to 12 feet centers—at room corners. Properly sized steel girders would transmit stresses to these columns. As in skyscrapers, walls would serve the one purpose of screening the interior. Outside, inside and basement walls would consist of pre-cast slabs, a story or more in height. Exterior slabs could be cast to resemble brick, stone, stucco; interior slabs could be papered, painted with conventional finishes.

For slab material, Mr. Foster has been successful with gypsum cement, aerated to weigh but 30 pounds per cubic foot. Large slabs can be easily handled by two men. Materials are cheap, labor costs would be small for making and erecting.

When one realizes, as Mr. Atterbury says, that no practical art has made less progress through the ages than home building; that we still use the same brick hands and employed in building the walls of churches, there is ample room and need for greatly improved practices, which the proposed research institute might expedite.

BUSINESS DEPRESSION TENDS TO ADVANCE 5-DAY WEEK PLAN

A large net gain in the number of industrial and business establishments operating a five-day basis from the depression subsidies is foreseen by Commissioner Ethelbert Stewart, of the Bureau of Labor Statistics, Department of Labor.

The impetus given the five-day week policy by poor business conditions has been "very, very great," according to Stewart. Obstacles have been removed from the path leading to adoption of the shorter working week by the lack of sufficient work. In many instances, to keep plants busy more than three days weekly. Further information was supplied by the commissioner as follows:

"There will, of course, be a certain portion of establishments operated by persons with backward ideas of business management which will revert to the five and a half or six-day week when business gets back to normal. But the majority of plants which have been forced to go on the reduced schedule will keep it reduced, as the feasibility and economic soundness of the five-day week may now be said to have been demonstrated successfully.

The overhead arising from starting operations for only four hours is proportionately larger than if the plants were active an entire day.

"The depression has focused attention on the five-day week, and there is little tendency apparently to revivify agitation for minimum wage legislation.

"One favorable aspect of the poor business conditions and scarcity of employment has been a sizable reduction in labor turnover. With few positions open, workers have not been leaving their jobs. It costs perhaps \$75, on the average, for a single placement. For skilled workers the figure is undoubtedly higher. The result of a smaller turnover, therefore, has been a considerable saving.

"Economic recession is not solely responsible for the smaller rate of turnover, as greater co-operation of labor and its employers, and the substitution of 'managers' for 'bosses' have been influential. In some instances, the strike has induced the employer to improve working conditions in an effort to keep his men satisfied."

WAGE AGREEMENT PENDS AT SEATTLE

More than 8000 workmen in the Seattle Building Trades may be assured, in a few days, that there will be no wages cut during the next few years, according to negotiations nearing completion.

The Seattle Building Trades Council and Seattle Construction Council are nearing an agreement providing continuance of present wages with no important change in working conditions. Members of all crafts affiliated with the building trades union have signed the agreement, and all but a few of the construction council members have done likewise.

ENGINEERING COURSE AT UNIVERSITY OF CALIF.

During the University of California intercession, May 11 to June 20, the department of mechanical and electrical engineering will offer a course in machine drawing, consisting of preparation of technical sketches and of working drawings with an introduction to the elements of theoretical design; a course in engineering mechanics, and a course in machine design, dealing with the application of principles of mechanical resistance and properties of materials and shop processes to the design of machine parts and power transmitting machinery.

Information containing detailed information relative to admission requirements, fees, credit, and hours may be obtained from the Dean of the Summer Session, 102 California Hall, Berkeley.

ARCHITECTS URGES THEATRE INTEREST

George M. Thompson, accounts has been appointed receiver for the Los Angeles Theatre on application of Architects S. Charles Lee and S. T. Den Norton to the Federal district court at Los Angeles. The architects have filed suit against the Gumbin Theatrical Enterprises, Inc., owners of the theatre, to collect \$52,747 allegedly due for architectural services on the theatre. They claim they were to receive 10 per cent on the cost of the playhouse, which was \$916,681, and have been paid only \$300 of the amount due them under the contract. The receivership is for the protection of creditors. It is stated the playhouse being operated at

Building News Section

APARTMENTS

Completing Preliminary Plans.
APARTMENTS Cost, \$300,000
KLAND, Alameda Co., Cal. Withheld.
 4-story and basement brick apartments.
 Owner and Builder—Harry A. Schuster, 2424 Curtis St., Berkeley.
 Preliminary plans by owner. Architect will be selected shortly, to prepare working drawings.

Specifications Being Written.
APARTMENTS Cost, \$—
SAN FRANCISCO. Location Withheld.
 4-story and basement steel frame and concrete apartment building.
 Owner—Mrs. Jolie Exniclos, 135 Darien Way, San Francisco.
 Architect—H. C. Baumann, 251 Kearny St., San Francisco.
 Bids will be called for shortly.

Preliminary Estimates Being Taken.
APARTMENTS Cost, \$55,000
KLAND, Alameda Co., Cal. Location Withheld.
 2 1/2-story wood frame and stucco apartments (30 2 & 3-room apts.)
 Owner—Withheld.
 Architect—H. K. Jensen, 354 Hobart St., Oakland.
 Full concrete basement, steam heat and oil burning system, hardwood flooring, composition roof.

Contract To Be Awarded.
APARTMENTS Cost, \$20,000
ARTSONVILLE, Santa Cruz Co., Cal. Sudden Street.
 2-story frame and stucco apartments (8 2-room apts.; Spanish type).
 Owner—A. Strazlich, Watsonville.
 Architect—W. Story, Pajaro Valley Bank Bldg., Watsonville.
 Contractor—J. A. Leichter, 230 Rodrigues St., Watsonville.

Construction Postponed Indefinitely.
APARTMENTS Cost Approx. \$20,000
TA ROEA, Sonoma Co., Cal. 7th and A Streets.
 2-story a frame and stucco apartments (6 apts.)
 Owner—P. Giambini and S. Testorelli, Santa Rosa.
 Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.
 A previous bid opening lowest bid submitted by E. Ahlstrom, 411 1/2 St., Santa Rosa.

Figures Being Taken.
APARTMENTS Cost, \$100,000
ANGELES, Cal. No. 1320 N-Harper Avenue.
 2-story and basement reinforced concrete apartments (72x15 feet).
 Owner and Builder—James M. Reese, 55 S. Detroit St., Los Angeles.
 Architect—Arthur W. Hawes, 1241 N. Mariposa Ave., Los Angeles.

Plans Being Prepared.
APARTMENTS Cost, \$150,000
SAN FRANCISCO. Walnut and Clay Streets.
 2-story and basement class C reinforced concrete and steel frame apartments (30 2-3- and 4-room apts.)
 Owner and Builder—I. Epp, 4745 Geary Street.
 Architect—H. C. Baumann, 251 Kearny Street.

Sub Bids Being Taken.
APARTMENTS Cost, \$60,000
SAN FRANCISCO, SE Beach and Fillmore Streets.
 Three-story and basement frame and stucco apartment (nine 3-room and three 4-room apts.)
 Owner and Builder—Viggo Rasmussen, 1900 Jefferson Street.
 Architect—R. R. Irvine, Call Bldg.

Preparing Plans.
APARTMENTS Cost, \$200,000
SAN FRANCISCO. SW Grove and Fillmore Sts.
 Seven-story and basement steel frame and concrete apartments (40 2-3- and 4-room apts.)
 Owner and Builders—Liebman & Epp, 1555 Francisco Street.
 Architect—H. C. Baumann, 251 Kearny Street.

Plans Being Prepared.
APARTMENTS Cost, \$50,000
SAN FRANCISCO. 25th Avenue N Fulton Street.
 Three-story and basement frame and stucco apts. (12 4-room apts.)
 Owner and Builder—O. M. Oyen, 50 Casteneda St.
 Architect—H. C. Baumann, 251 Kearny Street.

Commissioned To Prepare Plans.
APARTMENTS Cost, \$300,000
OAKLAND, Alameda Co., Cal. Location withheld.
 Six-story and basement apartments.
 Owner and Builder—Harry A. Schuster, 2424 Curtis St., Berkeley.
 Architect—Willis Lowe, 354 Hobart St. Oakland.

BONDS

PISMO. San Luis Obispo Co., Cal.—Election will be held April 28 in the Pismo Elementary School District to vote bonds of \$30,000 to finance erection of a new school. Trustees of the district are: Julia M. Howard, Jennie M. Stewart and C. P. Harter.

PORTERVILLE, Tulare Co., Cal.—City defeats proposal to issue bonds of \$80,000 to finance erection of a city hall and firehouse. The city hall issue lost by 45 votes and the firehouse issue by 25 votes. W. D. Coates, Rowell Bldg., Fresno, architect.

SKILSAW Portable Electric Hand Saws (4 models).
SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attachments.
SYNTRON Portable Electric Hammers (4 models, motorless).
MALL Flexible Shaft Machines (50 models).
 Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON
 Labor Saving Portable Electric Tools.

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 San Francisco 7842
 SALES . SERVICE . RENTALS

CHURCHES

Construction Postponed Indefinitely.
CHURCH Cost, \$19,000
SAN FRANCISCO. Thirty-second Ave. and Ulloa Street.
 One- and two-story frame and stucco church with slate roof (to state 400).
 Owner—St. Stephens Protestant Episcopal Church.
 Architect—Charles Strothoff, 2274 15th St., San Francisco.
 Three lowest bids held under advisement.

Preparing Plans.
SUNDAY SCHOOL Cost, \$135,000
HONOLULU, T. H.
 Sunday school building.
 Owner—St. Andrew's Parish.
 Architect—C. W. Dickey, Damon Bldg. Honolulu.
 Plans will be completed about May 15.

Commissioned To Prepare Plans.
CHAPEL Cost, \$100,000
SAN RAFAEL, Marin Co., Cal. Grand Ave. and Locust.
 College Chapel.
 Owner—Dominican College, San Rafael.
 Architect—Arnold Constable, 580 Market St., San Francisco.

Structural Engineer—K. Theill, 580 Market St., San Francisco.
 Mechanical Engineer—Coddington Co., 222 Kearny St., San Francisco.
 The building will be designed in the early perpendicular Gothic style of the 14th century. The exterior will be of natural stone with a slate roof. The chapel will have accommodations for 500 students on the main floor while on the gallery over the main entrance vestibule there will be additional accommodations for 100 students. The sisters' choir is provided in the south transept. The total cost of the building is estimated at \$100,000. It is expected that the plans will be ready for bids in August and the architect will invite a selected list of contractors to figure this work.

FACTORIES AND WAREHOUSES

Contract Re-Awarded.
POULTRY BLDG. Cost, \$—
SACRAMENTO, Sacramento Co., Cal. State Fair grounds.
 One-story brick poultry building.
 Owner—State of California.
 Architect—George E. McDougall, state architect, Public Works Building, Sacramento.
 General Contractor—Guth and Fox, 1528 27th St., Sacramento, \$48,226.
Plumbing—Carpenter and Mendenhall, 907 Front St., Sacramento, \$5,374.
Electric Work—J. W. Thomas, Sacramento, \$1,750.

The general contract for this work was originally awarded to Yoho and Dager, Sacramento, at \$43,743, who were permitted to withdraw their bid.

Bids Opened—Under Advisement.
BAKERY Cost, \$—
SAN FRANCISCO. Block bet. Howard, Folsom, 13th and 14th Sts.
 One-story brick bakery.
 Owner—Peerless Bakery, 73 Eria St.
 Architect—E. Neumarkel, 544 Market Street.

HOLLISTER, San Benito Co., Cal.—C. A. Gardner, manager of the Lathrop Hay and Grain Co., whose warehouse and packing plant was recently destroyed by fire, will rebuild the structure at a cost of \$10,000.

Plans Being Completed.
PLANT Cost, \$100,000
SAN JOSE, Santa Clara Co., Calif. Three- or four-story concrete or brick manufacturing and refining plant. Owner—Liquid Sugar Corp., 637 Battery St., San Francisco.
Plans by Eng. Dept. of Owner.
Plans will be ready for bids in about three weeks.

Bids Opened.
HANGAR, ETC. Cost, \$65,000
SACRAMENTO, Sacramento Co., Cal. Municipal Airport.
Steel frame and wood hangar and air terminal station.

Owner—City of Sacramento, H. G. Denton, city clerk.
Architect—Starks & Flanders, Forum Bldg., Sacramento.

Following is a complete list of bids:
W. C. Keating, Forum Bldg., Sacramento.....\$51,544
Campbell Const. Co., Sacto.....52,486
Guth & Fox, Sacramento.....52,386
F. H. Betz, Sacramento.....53,781
Geo. Hudnutt, Sacramento.....54,169
Holdener Const. Co., Sacto.....54,500
Chas. Unger, Sacramento.....54,706
Lindgren & Swibertson, Inc., Sacramento.....55,100
C. J. Hopkinson, Sacto.....55,374
Mathews Const. Co., Sacto.....55,995
Thos. B. Hunt, Sacramento.....56,500
McGillivray Const. Co., Sacto.....67,175
Bids referred to City Manager for award.

BURBANK, Los Angeles Co., Cal.—Cooper's, 750 S. Los Angeles St., Los Angeles, are negotiating for the purchase of property at the corner of Front St. and Verdugo Ave., Burbank, as a site for a new underwear manufacturing plant. It is expected that the deal will be completed and construction of the building started soon after May 1. It will be a two-story structure, approximately 90x200 feet in area, and will be the first of three units to be erected on the site by Cooper's.

Prospective Bidders.
SUPERSTRUCTURE Cost, \$—
OAKLAND, Cal. Foot of Webster St. Superstructure for Inland Waterways Terminal (exclusive of structural steel).

Owner—City of Oakland (Port Commission), 424 Oakland Bank Bldg., Oakland.

Plans by Eng. Dept. of Owner.
Will be sheet-iron construction with 20-year guaranteed roof; 97x280-ft., with 20-ft. side hall clearance. Plans obtainable from office of secretary.

Following is a partial list of the contractor:
E. T. Lesure, 87 Ross Circle, Oakland.
Strehlow & LeVole, Central & Webster Sts., Alameda.
A. Frederick Anderson, 1093 Longridge Road, Oakland.
Emil Person, 829 San Luis Road, Oakland.

E. T. Leiter & Son, 811 37th Street, Oakland.
Bids are to be opened April 13th, 4:30 P. M.

Plans Being Completed.
CREAMERY Cost, \$100,000
BERKELEY, Alameda Co., Cal. San Pablo Ave. near Delaware St.

Two-story brick creamery and store. Owner—G. R. Heath, 2930 Garber St., Berkeley.
Plans by Engineer—Names withheld. Contractor—E. H. Wendt, 2116 Allston Way, Berkeley.

Sub bids will be taken in one week.

Plans Being Completed
BUILDING Cost list unit \$75,000
Total Cost, \$400,000
CONCORD, Contra Costa Co., Cal. Immediately adjoining the city limits and extending approximately 7 miles.

Group of approximately 20 poultry buildings, administration buildings offices, warehouses, etc.)
Owner—Wickham-Havens, Inc., 1510 Franklin St., Oakland.

Plans by Eng. Dept. of Owner, (H. Sylvester, engineer), 1510 Franklin St., Oakland.

It is expected to call for bids in about one week.

Construction will be carried over a period of four years. Corrugated iron roofs and backs, wood frame, concrete base and runs. Poultry buildings will be 18x350 feet.

Plans Being Completed.
SALINAS, Monterey Co., Cal. Cost, \$75,000

One-story brick vitamin manufacturing plant.
Owner—Leticine Vitamin Co., Inc., Watsonville.

Plans by Mr. Brositt, Eng. Department, Chas. Dickens and Staff, 4 Key Route Arcade, Oakland.

Incorporators are: Dr. Chas. Dickens of Oakland; H. F. Boyer, James T. Mann, Harry B. Sears, Ned B. Strong and James R. Cutler of Watsonville.

SERASTOPOL, Sonoma Co., Cal.—Bridgford Planning Aid destroyed by fire April 5. The loss, including adjoining structures, is estimated at \$50,000.

GARAGES AND SERVICE STATIONS

Sub-Contracts Awarded.
REMODELING Cost, \$10,000
MONTEREY, Monterey Co., Cal. Fremont and Murras Sts.

Remodel garage for super service station.
Owner—Standard Oil Co., 225 Bush St., San Francisco.

Plans by Eng. Dept. of Owner.
Contractor—C. N. Swensen, 355 Stockton Blvd., San Jose.
San Jose Iron Works, 535 W-San Carlos St., San Jose, awarded contract for structural steel, iron folding gates and miscellaneous iron.

Preparing Working Drawings.
SERVICE BLDG. Cost, \$50,000
VALLEJO, Solano Co., Cal. NW Sonoma and Main Sts. (130x150-ft.)

Two-story automobile plant and service building (probably brick construction).

Owner—Acme Motor Co. (Vallejo Ford dealers), Vallejo.
Architect—Claude Barton, 522 Grand Ave., Oakland.

Plans will be ready for bids in about thirty days.

Sub-Contracts Awarded.
REMODELING Cost, \$10,000
MONTEREY, Monterey Co., Cal. Fremont and Murras Streets.

Remodel garage for super-service station.
Owner—Standard Oil Co., 225 Bush St., San Francisco.

Plans by Eng. Dept. of Owner.
Contractor—C. N. Swensen, 355 Stockton Blvd., San Jose.

Plumbing—Anderson—Dougherty-Hargis, Salinas.
Electric Wiring—Carroll and Searle, Monterey.

Millwork—Work Lumber Co., Monterey.
Brick Work—Ernest Jimenez, Carmel.
Iron—San Jose Iron Works, San Jose.

GOVERNMENT WORK AND SUPPLIES

MARCH FIELD, Riverside Co., Cal.—C. P. and W. P. Stover, 116 Alexander Ave., Claremont, awarded contract at \$176,870 by Col. W. C. G. Denahire, constructing quarters at March Field, for the construction of 36 sets of noncommissioned officers' quarters at March Field. Each building will be a four-room structure of hollow concrete wall construction with stucco exteriora and tile roofing.

PHOENIX, Ariz.—Until April 30, P. M. bids will be received by T. Chief of the Division of Supplies, Department of Commerce, Washington, D. C. to install illumination facilities on the Phoenix-El Paso section of the San Diego-El Paso division of government air mail line. Work involves installation of about 26 involving beacons, 6 electric code beacons, an acetylene blinker, etc. Sp. obtainable from above.

BOULDER CITY, Nev.—Dorr C. Inc., Denver, Colo., at \$25,169 awarded contract by U. S. Bureau of Reclamation, Denver, to furnish water purification and sewage disposal equipment at Boulder City.

Colorado Fuel and Iron Co., Pueblo, Colo., at \$10,468 awarded contract furnish track materials for Hoop Dam Project.

International Filter Co., Chicago, at \$6,968 awarded contract for filter in connection with Boulder City project.

SUNNYVALE, Santa Clara Co., Cal. Public Works Officer, Twelfth N. District, 100 Harrison St., San Francisco, has postponed indefinitely the opening of bids for wood and concrete ties and core borings at the Naval Air Base, Sunnyvale. The work provided for under Specification N 6476. The bids were scheduled to be opened April 8th.

SAN DIEGO, Calif.—M. H. Golde, 404 California Bank Bldg., San Diego has been awarded contract at \$93.4 by Bureau of Yards and Docks for extension of barracks buildings at the Naval Operating Base (Air Station) San Diego; specification No. 645. Award was based on proposition No. 1 and 5. Work consists of four 2-story building extensions to existing barracks Nos. 10 and 11, each extensive to cover an area of approximately 6,333 ft.; concrete foundation, brick exterior walls.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies Accounts, Navy Department, Washington, D. C. to furnish and deliver as noted in the following schedule further information being available from the Navy Purchasing Office, 10 Harrison St., San Francisco.

Bids Open April 21
Mare Island, 36,000 lbs. sheet lead sch. 5436.

Mare Island, 34,000 machine steel bolts and nuts; sch. 5477.

Puget Sound, 3300 rubber ferrules sch. 5463.

Mare Island, 2200 white floor tile sch. 5462.

Puget Sound, motor driven metal working shaper; sch. 5450.

Western yards, boiler gaskets; sch. 5451.

Puget Sound, 1 radial drilling machine; sch. 5448.

Puget Sound, 1 radial drilling machine; sch. 5459.

Western yards, graphite grease; sch. 5465.

Western yards, hydraulic leather sch. 5466.

Puget Sound, 1 motor-driven metal

working shaper; sch. 5455.
 Western yards, packages; sch. 5387.
Bids Open April 28
 Western yards, flashlights; sch. 5470.
 Western yards, composition pipe fittings; sch. 5463.
 Western yards, malleable iron pipe fittings; sch. 5469.

SAN FRANCISCO—Until April 14, 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason, to furnish and deliver 1,000 Barracks No. 3, Fort Miley, the following materials for equipping a steam heating plant:
 270 ft. pipe, 3½", black, std. steel;
 145 ft. pipe, 3", black, std., steel;
 50 ft. pipe, 2½", black, std., steel;
 50 ft. pipe, 2", black, std., steel;
 50 ft. pipe, 1½", black, std., steel;
 340 ft. pipe, 1¼", black, std., steel;
 40 ft. pipe, 1", black, std., steel;
 270 ft. covering, pipe, 3½", 85% magnesia, with 4 oz. canvas;
 145 ft. covering, pipe, 3", 85% magnesia, with 4 oz. canvas;
 50 ft. covering, pipe, 2½", 85% magnesia, with 4 oz. canvas;
 50 ft. covering, pipe, 2", 85% magnesia, with 4 oz. canvas;
 60 ft. covering, pipe, 85% magnesia, 2" with 4 oz. canvas;
 1 elbow, C. I. 1¼", 45 degree;
 9 elbows, C. I. 1½", 45 degree;
 12 elbows, C. I. 1", 90 degree;
 12 elbows, C. I. 1", 90 degree;
 61 elbows, C. I. 1¼", 90 degree;
 9 elbows, C. I. 1½", 90 degree;
 12 elbows, C. I. 2", 90 degree;
 2 elbows, C. I. 2½", 90 degree;
 4 elbows, C. I. 3", 90 degree;
 12 elbows, C. I. 3½", 90 degree;
 12 elbows, C. I. 2"x1½", 90 degree;
 9 elbows, C. I. 1½"x1¼", 90 degree;
 1 elbows, C. I. 1¼"x1", 90 degree;
 1 tees, C. I. 1¼" x 1"x1";
 3 tees, C. I. 1½"x1¼"x1¼";
 3 tees, C. I. 1½"x1¼"x1";
 4 tees, C. I. 1¼"x1"x1";
 2 tees, C. I. 2"x1½";
 2 tees, C. I. 3"x2";
 3 tees, C. I. 3½"x1½";
 8 tees, C. I. 3½"x2";
 2 Unions, flange, 3½", C. I., complete with nuts and bolts;
 1 Union, flange, 3-in. C. I., complete with nuts and bolts;
 2 reducers, eccentric, 3½"x3", C. I.;
 2 eccentrics, C. I. 3½";
 48 nipples, 1"x1", black, std., steel;
 9 nipples, 1½"x6", black, std., steel;
 12 nipples, 2"x3", black, std., steel;
 64 nipples, 1¼"x1", black, std., steel;
 60 ft. hangers, pipe, adj., galv., 90 millimeters;
 30 rings and bolts, 3½", Crane Cat. P.372, or equal;
 15 rings and bolts, 3", Crane Cat. P.373, or equal;
 5 rings and bolts, 2½", Crane Cat. P.373, or equal;
 2 radiators, 25 sq. ft., 32", 4 tube, tapped 1½" O. P., Corto or equal
 24 radiators, 31½ sq. ft., 32", 4 tube, tapped 1½" O. P., Corto or equal
 2 radiators, 28 sq. ft., 32", 4 tube, tapped 1½" O. P., Corto or equal
 2 radiators, 21 sq. ft., 32", 4 tube, tapped 1" O. P., Corto or equal;
 4 radiators, 21 sq. ft., 7-B, wall, tapped 1" O. P., Corto or equal;
 4 radiators, 19½ sq. ft., 26", 4 tube, tapped 1" O. P.;
 10 valves, radiator, 1", Crane No. 112 or equal;
 31 valves, radiator, 1¼", Crane No. 112 or equal;
 41 valves, air, #1, Hoffman or equal;
 2 valves, vent, #15, Hoffman or equal;
 2 valves, gate, 3½";
 10 plates, floor, 1", No. 10, B & C, Crane Co. or equal;
 31 plates, floor, 1¼", No. 10, B & C, Crane Co. or equal;
 One boiler gas, #3-S-143 Bryant or equal, gas-fired steam, or American Radiator Co. #4 G.S.-6 gas-fired boiler or equal, equipped as

follows: Rated at 432,000 BTU output; crystalline metal jacket; #1160 pressure control and low water fuel cut-out; throttling action gas valve; gas pressure governor; steam retard gauge; labeled shut-off valve; back draft diverter; pop safety valve; thermostat equipment.

Sub-Contracts Awarded.
QUARTERS Cost, \$766,916
PORT SHAFER, T. H. Wheeler Field, Schofield Barracks.
 Quarters for married and bachelor officers, including all grading and utilities.
Owner—United States Government.
 Plans by Department Quartermaster, Construction Division, Ft. Shafter, Honolulu, T. H.
 Contractor—Ralph E. Woolley, Honolulu.
Millwork—Pacific Mfg. Co., Monadnock Bldg., San Francisco.
Miscellaneous and Ornamental Iron—Western Metalcrafts Co., Los Angeles.
Electrical Work—Hawaiian Elec. Co., Ltd.
Plastering—Geo. F. Larsen, Honolulu.
Tile Work—Honolulu Marble & Tile Co., Honolulu.
Roofing—H. F. Laws, Honolulu.
Painting—A. Zelinsky, 4420 California St., San Francisco.
Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.

SAN FRANCISCO—Until April 14, 11 A. M., bids will be received by Constructing Quartermaster, Ft. Mason, to install heating system in Barrack Building No. 3 at Fort Miley. All materials and equipment will be supplied to the contractor by the Government. Plans obtainable from Constructing Quartermaster.

MARCH FIELD, Riverside Co., Cal.
 —C. T. and W. P. Stover, 116 Alexander Ave., Claremont, submitted low bid of \$100,687 to Col. W. C. Gardenshire, constructing quartermaster, March Field, for erection of two sets of field officers' quarters, eight sets of company officers' quarters and ten garages at March Field. Recommendation was made that the contract be awarded to the low bidder on items 1 and 2 and the addition of at least four sets of quarters under items 5 and 6. Each of the quarters will contain eight rooms and three bathrooms; hollow tile construction with city tile roofing and stucco exteriors.

Bids Opened.
OFFICE QUARTERS, Etc. Cost \$—
SAN FRANCISCO.
 Construct temporary office bldg. and wood partition freight transit compartment at Pier No. 5.
Owner—United States Government.
 Plans by 12th Naval District, 100 Harrison Street.
 Following is a complete list of bids:
 F. C. Amoroso & Sons, Keith and Wallace Sts. San Francisco...\$ 597
 A. C. Johansons.....697
 F. A. Lorenz.....800
 Clancy Bros.....832
 Roy Lind.....837
 T. B. Goodwin.....924
 Sullivan & Sullivan, Oakland.....1,063
 J. P. Fletcher.....1,084
 A. P. Anderson, Oakland.....1,179
 Vogt & Davidson.....1,188
 J. Harold Johnson.....1,244
 Braas & Kuhn.....1,494
 E. O. Lissu.....1,388
 J. W. Cobby & Son.....1,693
 American Woodworking Co.....1,987
 Clinton Stephensen Const. Co.....2,074
 Emil Person, Oakland.....2,138

Bids held under advisement.

Contract Awarded.
PAINTING, ETC. Cont. Price, \$1545
SANTA CRUZ, Santa Cruz Co., Cal.
 Interior and exterior painting and re-

pairs and light fixtures for U. S. postoffice.
Owner—U. S. Government.
 Plans by Supervising Architect, Treasury Dept., Washington, D. C.
 Contractor—A. J. Sunbeam, Santa Clara.

Following is a complete list of the bids received:
 A. J. Sunbeam, Santa Cruz.....\$1,545
 C. H. Couch, Santa Cruz.....1,602
 Bennett & Harrison, Santa Cruz, 1,696
 A. Tomlin, Santa Cruz.....2,216
 Universal Const. Co., Ft. Wayne Indiana.....3,666

SAN FRANCISCO—Until April 20, under Circular No. 28, bids will be received by the Constructing Quartermaster, Fort Mason, to install eight skylights in Building No. 15 at the Presidio. Specifications obtainable from above.

HALLS AND SOCIETY BUILDINGS

Completing Preliminary Plans.
CLASS A BLDG. Cost, \$—
SAN FRANCISCO. Powell and Clay Six or seven-story Class A steel frame and concrete building.
Owner—Young Women's Christian Assn., 629 Sutter St., S. F.
 Architect—Miss Julia Morgan, Merchants' Exchange Bldg., S. F.
 Preliminary plans will be approved within one week, and at that time it will be decided whether building will be six or seven stories.

ANGELS CAMP, Calaveras Co., Cal.
 —American Legion Post No. 376, has voted to purchase site and erect a clubhouse, covering an area of approximately 100 by 40 feet. A series of socials will probably be undertaken to finance the structure.

OAKLAND, Cal.—Until May 5, 10:30 A. M., bids will be received by George E. Gross, county clerk, to furnish and install furniture and equipment in Veterans' Memorial Building at Livermore. Specifications and further information obtainable from the county clerk.

HOSPITALS

LOS ANGELES, Cal.—Contract for plastering at the new Acute Units of the Los Angeles General Hospital, has been assigned by J. W. Jean, 6778 Hollywood Blvd., to E. V. Fallgren & Co., 119 S. Alvarado St. The assignment was ratified by the Los Angeles County Supervisors March 30. The contract price was \$304,475 and was awarded Feb. 18 The bond, written by the Massachusetts Bonding & Surety Co., was also transferred.

To Ask Bids Within A Few Days.
PREVENTORIUM Cost, \$160,000
REDWOOD CITY, San Mateo Co., Cal.
 Three frame and stucco Preventorium bldg. building and tile roofs.
Owner—City and County of San Francisco.
 Architect—Henry H. Meyers, Kohler Bldg., San Francisco.

Plans Being Prepared.
NURSES' HOME Cost, \$250,000
HONOLULU, T. H.
 Two-story Class A nurses' home.
Owner—Queen's Hospital.
 Architect—C. W. Dickey, Damon Bldg. Honolulu.
 Plans will be ready for bids about June 1.

Preparing Working Drawings.
ADDITIONS Cost, \$342,000
BERKELEY, Alameda Co., Cal.
 Additional units at State School of Deaf (dormitory and kitchen).
Owner—State of California.

Architect—Charlets Roeth, 1404 Franklin St., Oakland.

Construction Postponed Indefinitely.
HOSPITAL Cost, \$65,000
 SAN FRANCISCO. Ocean Avenue and Alemany Blvd.
 Two-story class A reinforced concrete emergency hospital.

Owner—City and County of San Francisco.
 Architect—Bureau of Architecture, Chas. Sawyer, chief, City Hall.

Bids Opened.
DORMITORY Cost, \$—
 SAN LUIS OBISPO, San Luis Obispo Co., Cal.

Two-story concrete boys' dormitory floor area 7600 sq. ft.)
 Owner—State of California.

Plans by State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.

Following is a complete list of bids:
General Work

Wigg Const. Co., Redondo	\$23,195
Bech	25,229
The Minton Co., Mt. View	25,229
W. J. Smith	25,755
Wm. Rohlbacher, Los Angeles	26,645
Theo. Maine, San Luis Obispo	26,838
R. Hodgson & Sons	26,995
David Nordstrom, Oakland	28,329
F. R. Dequine	30,360

Plumbing
 American Engineer & Contractor, Ltd., Los Angeles.....\$3,169
 J. A. Fazio, Oakland.....3,798

Heating
 W. A. Aschen, 3000 E 16th St., Oakland.....\$2,629
 Geo. C. Bell, Oakland.....2,865
 T. C. Douglass.....2,894

American Engineer and Contractor, Ltd., Los Angeles.....3,994

Electrical Work
 California Electric Co., Santa Barbara.....\$1,164
 NePage-McKenny Co., Oakland...1,394
 Cline Electric Co.....1,412
 Bids held under advisement.

HOTELS

Preparing Preliminary Plans.
THEATRE & HOTEL Cost, \$12,000,000
 SAN FRANCISCO. SE 9th and Market Sts. (275x375-ft.)

Seventeen-story class A hotel and theatre (325 apts. and rooms, and theatre portion to seat over 5000).
 Owner—Ninth and Market Co., A. F. Rousseau in charge, care Marian Realty Co., 110 Sutter St.
 Architect—Douglas Stone, 337 17th St., Oakland.

Plans Being Prepared.
HOTEL Cost, \$750,000
 LAS VEGAS, Nevada. E Seventh and Fremont Streets

Two hundred-room hotel.
 Owner—Leigh Hunt et al.
 Architect—Gilbert Stanley Underwood, California Reserve Bldg., Los Angeles.

Plans To Be Prepared.
HOTEL Cost, \$200,000
 SAN RAFAEL, Marin Co., Cal. Community Hotel (70-100 rooms).
 Owner—Corporation to be organized to finance; Harry Lutgens, chairman of organization committee, San Rafael.
 Architect—Not Selected.

A committee of citizens and the more important business leaders of the city have been named to outline a program for the speedy erection of this structure.

Plans Being Figured.
HOTEL Cost, \$175,000
 HONOLULU, T. H. Waikiki Beach. Reinforced concrete hotel.

Owner—Halekulani Hotel, Honolulu, T. H.
 Architect — C. W. Dickey, Damon Bldg., Honolulu.

Contract Awarded.
HOTEL Cost, \$250,000
 SAN FRANCISCO. Pine St. between Powell and Stockton Sts.
 Sixteen-story steel frame and concrete hotel.

Owner—Sheldrake Hotel Company.
 Architect—H. C. Baumann, 251 Kearny Street.
 Contractor—Monson Bros., 475 6th St.
 As previously reported, structural steel awarded to Judson Pacific Co., 609 Mission St.; excavation to L. Devenenzi, 148 Blake St.

Being Done By Day's Work by Owner ALTERATIONS Cost, \$25,000
 MERCED, Merced Co., Cal.
 Owner—Bank of America.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Lessee—J. A. Newberry Company.

ICE AND COLD STORAGE PLANTS

LODI, San Joaquin Co., Cal.—I. N. Tocchini has leased the Hieb Building in West Elm Street and will expend \$15,000 in remodeling the structure for a motion picture theatre. (5237) 17

Plans Being Prepared.
ICE PLANT Cost, \$—
 REDWOOD CITY, San Mateo Co., Cal. Brewster Ave. and Perry St. (125x100 feet).

One-story concrete ice plant.
 Owner—Union Ice Co., 354 Pine St., San Francisco.
 Architect—Eng. Dept. of Owner.

Plans Being Figured.
PRE-COOLING PLANT Cost, \$30,000
 ORANGE, Orange Co., Cal.
 Two-story and basement brick pre-cooling plant (85x120 feet).
 Owner—Orange Mutual Citrus Assn.
 Architect—J. G. Vrydagb, 505 S. Birch St., Santa Ana.

Will have a storage capacity of sixty cars; brick walls, mill type interior construction, composition roofing, cork board insulation.

Contract Awarded.
ICE PLANT Cost, \$100,000
 WATSONVILLE, Santa Cruz Co., Cal.
 One-story reinf. concrete ice plant (100x75-ft.)
 Owner—Union Ice Co., 354 Pine Street, San Francisco.
 Plans by Eng. Dept. of Owner.
 Contractor—W. W. Williamson, 320 Market St., San Francisco.

POWER PLANTS

Preliminary Plans Completed.
CITY HALL Cost, \$15,000
 LOS BANOS, Merced Co., Cal.
 Two-story brick and reinforced concrete combination fire house and city hall.
 Owner—City of Los Banos.
 Plans by W. E. Bedesen (engineer), Shaffer Bldg., Merced.
 Election will be held May 1 to vote bonds to finance construction.

GRIDLEY, Butte Co., Calif.—City council rejects bids of Fairbanks-Morse Co., Spear and Harrison Sts., San Francisco, at \$17,200 to furnish and install one Diesel engine generating unit with auxiliary pumps, motors, equipment and materials. The above equipment was to replace the present steam plant standby service.

GRIDLEY, Butte Co., Cal.—Jas. L. Hall, Mills Building, San Francisco, awarded contract by city council to furnish and deliver one carload of electric light poles, as follows: Ten 30-ft. poles, 6-in. top, 1/2-in. butt treated, \$439;
 Six 55-ft. poles, 8-in. top, do; \$1751;
 Two 60-ft. poles, 9-in. top, do; \$23;
 Balance of order to make up minimum carload, involving 40-ft. poles, 8-inch top, 1/2-inch butt treated, \$1175.

All to be round Western Red Cedar guaranteed with Western Red Cedar Association Specifications, delivered f.o.b. Gridley. Six other bids were received.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

SAN QUENTIN, Marin Co., Calif.—Forderer Corncorn Works, 269 Potrero Ave., San Francisco, at \$1,389 awarded contract by state purchasing department, Sacramento, to furnish and install four skylights, 10x54, at San Quentin.

Plans Being Completed—Bids To Be Asked Shortly.
LIBRARY Cost, \$20,000
 SPARKS, Nevada. B Street.
 One-story brick and concrete, 36x60 ft., branch county library (tile roof).
 Owner—Washoe County Library Trustees, Reno, Nevada.
 Architect — F. J. De Longchamps, Gazette Bldg., Reno, Nevada.

TEHACHAPI, Kern Co., Cal.—Four Bakersfield contractors are figuring the construction of the administration building and cottages for the California Institute for Women to be erected at Tehachapi, bids for which will be opened by the State Department of Public Works, Division of Architecture, on April 14. These are:

- P. W. Faynter, 1801 Palm Street, Bakersfield.
- Henry Eissler, 2229 18th St., Bakersfield.
- Currie and Dalgur, Kern County Land Bldg., Bakersfield.
- Fred L. Gribble, 1202 17th Street, Bakersfield.

Sub-Contracts Awarded.
JAIL Cost, \$110,000
 SALINAS, Monterey Co., Cal.
 Two-story reinforced concrete jail.

Owner—County of Monterey.
 Architect—Reed & Corlett, Oakland
 Bank of Savings Bldg., Oakland.
 Excavation — Dountainville St., Salinas.

Reinforcing Steel—Gunn, Carle & Co., 444 Market St., San Francisco.

Ornamental and Miscellaneous Structural Steel—Franklin Ornamental Iron Works, 325 8th St., Oakland.
Steel Sash—Rolph Mills Co., 252 Market St., San Francisco.
Mill Work—Pacific Mfg. Co., 353 Hubbard St., Oakland.
Glass and Glazing—East Bay Glass Works, 621 6th St., Oakland.
Lumber—Salinas Lumber Co., Salinas
 Con. Aggregates—Central Supply Co., Salinas.
Form Clamps—Wm. J. Burke Co., 200 Davis St., San Francisco.

As previously reported, plumbing, heating and ventilating contract awarded to Carl T. Doell, 467 21st St., Oakland, at \$12,000; electric work to Rodeo Elec. Shop, Salinas, at \$2344, and jail equipment to Diuaba Steel Products Co., 163 Second St., San Francisco, at \$29,364.

Commissioned To Prepare Plans.
HALL OF RECORDS Cost, \$500,000
 Class A Hall of Records.
 Owner—County of Contra Costa.
 Architect — E. G. Geoffrey Bangs, 411 30th Street, Oakland.

Plans Being Completed.
ALTERATIONS Cost, \$—
RENO. Washoe Co., Nevada.
 Remodel and change county clerk's office in courthouse.
 Owner—County of Washoe.
 Architect — Fred J. DeLongchamps, Gazette Bldg., Reno, Nevada.
 Work will involve the construction of new re-arrangement of the present partitions, etc.

RESIDENCES

Bids Opened.
RESIDENCE Cont. price, \$7800
OAKLAND, Alameda Co., Cal. Rockridge District.

1½-story frame and stucco residence (7 rooms; 2-car garage).
 Owner — H. Donnelly, 281 Mather St. Oakland.
 Architect—Guy L. Brown, American Bank Bldg., Oakland.

Low Bidder—Gordon Marchant, 3201 Bruce St., Oakland.
 Other bidders on revised plans as follows:
 Bedell & Lane, Oakland.....\$7,880
 Oscar Reit, Oakland.....\$3,295
 Bids held under advisement.

Sub-Bids Being Taken.
RESIDENCE Cost, \$3000
SAN LEANDRO, Alameda Co., Calif. Estudillo Estate, Rodney Drive.
 Two-story and basement frame and stucco residence (7 rooms).
 Owner—Mr. Bruning.
 Plans by Ralph Wood, 1197 Foothill Blvd., San Leandro.
 Contractor—Arthur Nylander, San Leandro.

Plans Being Completed.
RESIDENCE Cost, \$30,000
HILLSBOROUGH, San Mateo Co., Cal. Two-story and basement frame and stucco residence.
 Owner—W. H. Berg.
 Architect—Wills Folk Co., 277 Pine St., San Francisco.
 Bids will be taken in one week.

Plans Being Prepared.
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co., Cal. Two-story and basement frame and stucco residence (12 rooms).
 Owner—A. G. Simpson, Hillsborough. Architect—W. W. Wurster, 260 California St., San Francisco.
 Bids will be taken about May 1st.

Plans Being Figured—Bids Close Apr. 16th.
RESIDENCE Cost, \$10,000
SAN FRANCISCO, Marina District. Two-story and basement frame and stucco residence.
 Owner—F. Rathjens, 1327 Pacific Ave. Architect—Henry C. Smith and A. R. Williams, Humboldt Bank Bldg.
 Bids are being taken from a selected list of contractors.

Preparing Preliminary Plans.
BERKELEY, Alameda Co., Cal. Two-story and basement frame and stucco residence.
 Owner—Withheld.
 Architect—Miller and Warnecke, Financial Center Bldg., Oakland.

Contract Awarded.
RESIDENCE Cost, \$—
SANTA ROSA, Sonoma Co., Cal. Two-story and basement frame and stucco residence (10 rooms).
 Owner—Mr. Nelligan, Santa Rosa. Architect — Russell Guerne De Lappe, 1710 Franklin St., Oakland.
 Contractor — Elis Ahlstrom, Santa Rosa.

Following is a complete list of the general bids received, all bidders of Santa Rosa:
 Elis Ahlstrom.....\$14,799
 G. F. Hall.....14,379
 W. L. Proctor.....15,020

R. W. Whiting.....16,078
 W. J. Lindsay.....16,170
 J. J. Lindsay.....18,500
 Sub-contract awarded as follows:
 Masonry—D. Lancia, Santa Rosa, at \$730.
 Paint—Michel & Pfeiffer, \$306.
 Glass and Glazing—Tyre Bros., \$230.
 Tile Work—Higley Tile Co., \$836.
 Sheet Metal—Ed. Holtz, Santa Rosa
Painting—Chas. Roberts, Santa Rosa, \$805.
Flooring—Hardwood Floor Co., \$590.
Plumbing—Geo. Mitchell, \$1310.
Electrical—L. A. Drake, \$362.
Heating—Kindig Co., \$575.

Contract Awarded.
RESIDENCE Cost, \$—
PIEDMONT, Alameda Co., Cal. Two-story and basement brick veneer frame and stucco residence.
 Owner — Gerald B. Trayner, % Architect.
 Architect—Farr & Ward, 68 Post St., San Francisco.
 Contractor—A. Cedarburg, 1455 Excelsior Blvd., Oakland.

Completing Plans.
BUNGALOW Cost, \$5000
SAN FRANCISCO. Crocker tract. One-story and basement frame and stucco bungalow (5 rooms).
 Owner and Builders—M. & M. Builders, 771 Hanover St., San Francisco.
Architect—Not Given.
 Sub-bids will be taken within few days.

Plans Being Prepared.
RESIDENCE Cost, \$10,000
PALO ALTO, Santa Clara Co., Calif. Two-story and basement frame and stucco residence (7 rooms).
 Owner—Withheld.
 Architect—Guy O. Koepf, McDougall Bldg., Salinas.

Plans Being Prepared.
RESIDENCE Cost, \$25,000
CARMEL, Monterey Co., Cal. Carmel Highlands. Two-story and basement frame and stucco residence (12 rooms and 5 baths).
 Owner—Withheld.
 Architect—Guy O. Koepf, McDougall Bldg., Salinas.

Bids Opened.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. Rockridge District. 1½-story frame and stucco residence (7 rooms; 2-car garage).
 Owner—J. H. Donnelly, 281 Mather St. Oakland.
 Architect—Guy L. Brown, American Bank Bldg., Oakland.

Following is a complete list of bids:
 Gordon Marchant, 3201 Bruce St., Oakland.....\$ 9,290
 Bedell & Lane, Oakland..... 9,600
 Oscar Reite, Oakland..... 9,840
 Emil Person, Oakland..... 10,549
 M. Cicero, Oakland..... 10,998
 S. J. Bertelsen, Oakland..... 11,204
 Wilbur Cone, Oakland..... 11,300
 Jensen & Pedersen, Oakland..... 11,430
 Plans are to be revised and new bids will be called for shortly.

Plans Completed.
RESIDENCE Cost, \$—
MONTEREY, Monterey Co., Cal. Two-story and basement frame and stucco residence (12 rooms and 3 baths).
 Owner—Arthur Metz, Monterey.
 Architect—William O. Raiguel, Hotel Del Monte, Monterey.
 Upon approval of plans by owner bids will probably be called for.

Plans Being Figured.
RESIDENCE Cost, \$12,000
SANTA CRUZ, Santa Cruz Co., Cal. One-story and basement frame and

stucco residence (7 rooms and 3 baths; English type; tile or slate roof).
 Owner—J. Bowman, Santa Cruz.
 Architect — J. D. Esty & McPhetres, Alta Bldg., Santa Cruz.
 About ten days will be allowed for figuring the plans.

Sub-Contracts Awarded.
RESIDENCE Cost, \$30,000
WATSONVILLE, Santa Cruz Co., Cal. Two-story and basement frame, stucco and brick residence (11 rooms and 3 baths).
 Owner—J. E. Porter, Watsonville.
 Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
 Contractor — H. H. Larsen Co., 64 South Park, San Francisco.
Mill Work—Pacific Mfg. Co., Monadnock Bldg., San Francisco.
Plumbing—P. J. Freiermuth, Watsonville.

Heating and Sheet Metal—A. P. Beck, 19 E-Lake St., Watsonville.
Grading—Central Supply Co., Watsonville.
Electric—Central Electric Co., Watsonville.
Steel Sash—Detroit Steel Products Co., Hunter-DuIn Bldg.

Sub-Contracts Awarded.
RESIDENCE Cost, \$20,000
ATHLETIC, San Mateo Co., Cal. Two-story and basement frame and stucco residence (10 rooms and 3 baths).
 Owner—J. W. Kaufman, 2600 Steiner St., San Francisco.

Architect — George deComensil, Nevada Bank Bldg., San Francisco.
 Contractor — Louis N. Pollard, 55 Brewster St., Redwood City.
Plastering—Ira T. Bridges, 534 Waverly St., Palo Alto.
Millwork—Pacific Mfg. Co., Santa Clara.
Lumber—Gray-Thorning Lumber Co., Redwood City.
Concrete Materials—Redwood Materials Co., Redwood City.
Electric Work—M. E. Ryan, Redwood City.
Sheet Metal Work—Palo Alto Sheet Metal Works, 841 Alma St., Palo Alto.

Completing Plans.
RESIDENCE Cost, \$10,000
SAN FRANCISCO, Marina District. Two-story and basement frame and stucco residence.
 Owner—F. Rathjens, 1327 Pacific Ave. San Francisco.
 Architect—Henry C. Smith and A. R. Williams, Humboldt Bank Bldg., San Francisco.
 Bids will be taken within one week.

Sub-Figures Being Taken.
RESIDENCES Cost \$4000 each
SAN FRANCISCO. E Fourteenth Ave N Taraval Street.
 Two one-story and a basement frame and stucco residences.
 Owner and Builder — A. Halsen, 2427 25th Ave., San Francisco.
 Plans by D. E. Jaekle, Cal Bldg., San Francisco.

Plans Being Figured.
ADDITION Cost, \$2,000
TIBURON, Marin Co., Cal. Addition to residence.
 Owner—R. Stern.
 Architect—Fabre & Hildebrand, 119 Sutter St., San Francisco.

To Take Bids In One Week.
BUNGALOW COURT Approx. \$45,000
SAN CARLOS, San Mateo Co., Cal. One-story frame and stucco bungalow court.
 Owner—Withheld.
 Architect—Ernest Norberg, 580 Market St., San Francisco.

Sub-Bids Being Taken.
RESIDENCES Cost, \$4500 each
SAN FRANCISCO, W Sixteenth Ave.
N Wawona Street.
Two one-story and basement frame
and stucco residences.
Owner and Builder—G. J. Elkington &
Sons, 330 Vicente St., San Fran-
cisco.
Architect—C. F. Strothoff, 2274 15th
St., San Francisco.

Sub-Figures Being Taken.
RESIDENCE Cost, \$50,000
LOS ANGELES, Cal. First and Hud-
son Streets.
Two-story and basement frame, stucco
and brick residence (12 rooms).
Owner and Builder—John R. King,
1124 S. Western Ave., Los Angeles
Architect—H. J. Knauer, 1124 S.
Western Ave., Los Angeles.

Plans Being Prepared.
RESIDENCE Cost, \$8500
MILLERAIE HIGHLANDS, San Mateo
Co., Calif.
One-story and basement frame and
stucco residence (6 rooms).
Owner—George Wale, 575 Pierce St.,
San Francisco.
Architect—Chas. Strothoff, 2274 15th
St., San Francisco.
Part the roof, gas and hot air heat-
ing system.
Bids will be taken in one week.

Plans Being Figured—Bids Close
April 13th.
RESIDENCE Cost, \$7000
SAN RAFAEL, Marin Co., Cal. Mc-
Rae Ave.
One-story and basement frame and
stucco residence (6 rooms).
Owner—Warren Craue, San Rafael,
California.
Architect—S. Heiman, 605 Market St.,
San Francisco.

Plans Being Figured — Bids Close
April 13.
RESIDENCE Cost, \$10,000
BURLINGAME, San Mateo Co., Cal.
Two-story and basement frame and
stucco residence (7 rooms and 2
baths).
Owner—Withheld.
Architect—E. L. Norberg, 550 Market
St., San Francisco.
Bessett Bldg. Co., 826 Walnut St.,
Burlingame, and G. W. Williams Co.,
Ltd., 1404 Broadway, Burlingame, are
figuring the plans.

Bids In—Under Adviseiment.
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Calif. El
Camino Real.
Two-story and basement frame and
stucco residence (7 rooms, 3 baths)
Owner—Withheld.
Architect—E. L. Snyder, 2101 Shat-
tuck Ave., Berkeley.

Contract Awarded.
RESIDENCE Cost, \$3500
ALAMEDA, Alameda Co., Cal. No.
2825 Lincoln Avenue.
Two-story frame and stucco residence
(6 rooms).
Owner—J. A. Quinn, Liberty Avenue,
Alameda.
Plans by W. H. Anderson.
Contractor—Walter H. Anderson, 1014
Doris Court, Alameda.

Preparing Working Drawings.
RESIDENCE Cost, \$6000
OAKLAND, Alameda Co., Cal. Clare-
mont Woodlands.
Two-story and basement frame and
stucco residence (7 rooms).
Owner—Withheld.
Plans by Ralph Wood, 1197 Foothill
Blvd., San Leandro.
Contractor—Nylander Bros. 633 Mont-
clair, San Leandro.
Plans will be ready for bids in one
week.

Sub-Bids Being Taken.
RESIDENCE Cost, \$6000
SAN LEANDRO, Alameda Co., Calif.
San Jose and Collier Aves.
1½-story frame and stucco residence
(6 rooms).
Owner—Withheld.
Plans by Ralph Wood, 1197 Foothill
Blvd., San Leandro.
Contractor—Nylander Bros. 633 Mont-
clair, San Leandro.

Completing Plans.
RESIDENCES Cost each, \$5000
SAN LEANDRO, Alameda Co., Calif.
Estudillo Estate.
Two 1½-story and basement frame
and stucco residences (6 rooms).
Owner and Builder—C. W. Griffith,
1427 87th Ave., Oakland.
Plans by Ralph Wood, 1197 Foothill
Blvd., San Leandro.
Sub-bids will be taken in 10 days.

Plans Being Prepared.
RESIDENCE Cost, \$11,000
BERKELEY, Alameda Co., Cal. Orin-
da District.
One-story and basement frame and
stucco residence (7 rooms and 2
baths).
Owner—Carl Friden.
Architect—Fred H. Reimers, 233 Post
St., San Francisco.

Plans Being Figured—Bids Close Apr.
20, 3 P. M.
RESIDENCE Cost, \$18,000
BERKELEY, Alameda Co., Cal. Haw-
thorne Terrace.
Two-story and basement frame and
stucco residence (9 rooms and 4
baths).
Owner—Withheld.
Architect—Wm. C. Ambrose, 605 Mar-
ket St., San Francisco.
Bids are being taken from a select-
ed list of contractors.

Preparing Preliminary Plans.
RESIDENCE Cost, \$35,000
PIEDMONT, Alameda Co., Cal.
Two-story and basement frame and
stucco residence.
Owner—Withheld.
Architect—Miller and Warnecke, Fi-
nancial Center Bldg., Oakland.

Plans Completed—Contract Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Lake-
shore Highlands.
Two-story and basement frame and
stucco and brick veneer residence
(8 rooms, 3 baths).
Owner—Withheld.
Architect—Kert & Hass, 525 Market
St., San Francisco.

Contractor—Larsen and Larsen, Russ
Bldg., San Francisco.
Electric and gas, hot air heating
system, metal sash, cedar and oak
floors, slate roof, tile baths, linoleum
and hardwood floors. Plans will be
completed within one week.

Plans Being Completed.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence.
Owner—Dr. P. A. Brancatto, 1266
Nagle Ave., San Jose.
Architect—Binder & Curtis, 35 W-San-
Carlos St., San Jose.
Bids will be taken in one week.

Plans Being Figured—Bids Close
April 15th
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement rustic resi-
dence (7 rooms).
Owner—C. Wesley Toy, 760 S 9th St.,
San Jose.
Architect—Binder & Curtis, 36 W San
Carlos St., San Jose.

General Contract Bids Being Taken.
RESIDENCE Cost, \$4000
OAKLAND, Alameda Co., Cal. Quig-
ley Avenue.
One-story and basement frame and
stucco residence (5 rooms).
Owner—P. E. Menkas, 5% Architect,
Plans by Ralph Wood, 1197 Foothill
Blvd., San Leandro.

Contract Awarded.
RESIDENCE Cost approx. \$20,000
OAKLAND, Alameda Co., Cal. Saint
James Wood.
Two-story and basement frame and
stucco residence (9 rooms and 3
Owner—Spencer Fish, 1736 Franklin
St., Oakland.
Architect—Ray K e e f e r, 3281 Lake-
shore Ave., Oakland.
Contractor—Harold Paige, 5651 Oak
Grove Ave., Oakland.

Sub-Bids Being Taken.
RESIDENCES Cost, \$6000 each
REDWOOD CITY, San Mateo Co., Cal.
Two one-story and basement frame
and stucco residences (5 rooms
each) (Spanish type).
Owner and Builder—Koff Realty Co.,
25 Taylor St., San Francisco.
Architect—Not Given.

Contract Awarded.
ALTERATIONS Cost, \$25,000
SARATOGA, Santa Clara Co., Cal.
Alterations and additions to two-story
and basement frame and stucco
residence.

ORNAMENTAL WIRE AND IRON WORK

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wner—O. A. Hale, 2000 Broadway, San Francisco.
rchitect—Bliss & Fairweather, Balboa Bldg., San Francisco.
ntractor—J. Harold Johnson, Hearst Bldg., San Francisco.
ub-bids will be taken shortly.

W. Blidder.
RATERNITY HOUSE
Contract price, \$29,429
ERKELEY, Alameda Co., Cal. Virginia St. near LeConte Ave.
wo-story and basement frame and stucco fraternity house.
wner—Alpha Chi Sigma, 2423 College Ave., Berkeley.
rchitect—W. H. Rateliff, Jr., Chamber of Commerce Bldg., Berkeley.
W. Blidder—H. K. Schultz, 84 Mendocino Ave., Berkeley.

SCHOOLS

eparating Working Drawings.
DITION Cost, \$130,000
BAY, Alameda Co., Calif. Marin Elementary School and Cornell Elementary School.
crete additions to two elementary schools.
wner—Albany School District.
rchitect—Paul D. Dragon, 1654 Marina Ave., Albany.
Plans will be ready for bids in two weeks. Contemplated improvements include new classrooms, heating plants and equipment, playground developments, etc.

April 4, 1931
ans Being Completed.
DITION Cost, \$25,000
HO, Butte Co., Cal.
wo-story brick addition to college building.
wner—State of California.
rchitect—George B. McDougall, State Architect, Public Works Bldg., Sacramento.
Bids will be taken in one week.

ib-Bids Wanted.
MINISTRATION BLDG. Cost, —
EACHAPI, Kern Co., Cal.
Imitations building and cottages for California Institute for Women
wner—State of California.
ans by State Department of Public Works, Division of Architecture, George B. McDougall, State Architect, Public Works Bldg., Sacramento.

The buildings are two stories with concrete floors and walls, concrete and partitions, wood roof construction of tile roof.
The Administration Building has a total floor area of approximately 20,000 square feet.
The cottages, two of which are included in this contract, have a floor area of approximately 10,500 sq. ft.
The Minton Co., Mountain View and Hamilton St., Palo Alto, general contractors, desire sub-bids on all portions of the work in connection with the above project, for which general bids are to be opened in Sacramento April 14, 2 P. M.

ib-Contracts Awarded.
SCHOOL Cost, \$27,086
LITA CLARA, Santa Clara Co., Cal. reinforced concrete elementary school
wner—Santa Clara School District.
rchitect—Ralph Wyckoff, 10 N-2nd St., San Jose.
ntractor—Paul Anderson, 1210 Lincoln Ave., San Jose.
San Jose Iron Works, 535 W-San Carlos St., San Jose, awarded contract for ornamental and miscellaneous iron and structural steel.
As previously reported, plumbing awarded to August Roll, 1157 Franklin St., San Jose, at \$4176; painting to Peter Rhode, 900 Willow Glen Way, San Jose, at \$1511.

Preparing Preliminary Plans.
SCHOOL Cost, \$—
COLLEGE CITY, Colusa Co., Cal. fireproof high school.
Owner—Pierce Joint Union High School District.
rchitect—Starks & Flanders, Forum Bldg., Sacramento.
The structure will be financed from a bond issue yet to be voted. The amount of the issue has not yet been determined.

Preliminary Plans Awaiting Approval.
SCHOOL Cost, \$135,000
SAN FRANCISCO, Connecticut Street bet. 19th and 20th Sts. (Matt I. Sullivan Elementary School).
Three-story reinforced concrete school.
Owner—City and County of San Francisco, E. J. Hester, Secretary, Board of Public Works.
rchitect—G. A. Applegarth, Claus Spreckels Bldg., San Francisco.

This structure will contain 11 standard classrooms, 1 kindergarten, 1 assembly hall and lunch room with kitchen, teachers' office, clinic and waiting room, storage rooms, two laboratories, etc.

Sub-Contracts Awarded.
SCHOOL Cont. price, \$298,848
OAKLAND, Alameda Co., Calif. 45th Ave. and Pothill Blvd. (Fremont High School Site).
Three-story and basement steel frame and concrete high school with tile roof.
Owner—City of Oakland School Dist. Architect—Charles W. McCall, 1404 Franklin St., Oakland.
Contractor—Charles D. Vezey & Son, 3220 Sacramento St., Oakland.

Roofing—General Roofing Co., 2985 Beach St., Oakland.
Lumber and Mill Work—Sunset Lbr. Co., 400 High St., Oakland.
Sheet Metal—Central Sheet Metal Works, 2847 Hannah St., Oakland.
Glass—W. F. Fuller Co., 259 19th St., Oakland.
Steel Sash—Soule Steel Co., Rialto Bldg., San Francisco.
Electric Work—NePage-McKenny Co., 128 10th St., Oakland.
Plumbing and Heating—Scott Co., 113 10th St., Oakland.

Reinforcing Steel—McGrath Steel Co., 354 Hobart St., Oakland.
Structural Steel—Herrick Iron Works, 18th and Campbell Sts., Oakland.
Plastering—A. D. Aston, 114 Glendora, Fruitvale.
Floors—Rex Floor Co., 2468 65th Ave., Oakland.
Mastipave Flooring—Venor Co., 354 Hobart St., Oakland.
Redwood Block Flooring—Redwood Block Floor Co., 18th and Bryant Sts., San Francisco.

SAN FRANCISCO.—American Studios, Inc., 1060 Folsom St., at \$6,283.50 awarded contract by Board of Super-

visors, under Proposal No. 699, to furnish and install stage fittings, draperies, rigging and counter weight system for additions to the Balboa High School.

Bonds Voted—Plans Being Prepared.
ADDITION Cost, \$15,000
CASTROVILLE, Monterey Co., Cal. One-story reinforced concrete addition to school.
Owner—Castroville Union School Dist. Architect—W. H. Weeks, 525 Market St., San Francisco.

EUREKA, Humboldt Co., Calif.—Board of Education has voted to construct a 2-classroom addition to the Lincoln School to relieve the present congested structure. The cost is estimated at \$5,000.

Sub-Contracts Awarded.
DORMITORY Cost Approx. \$68,000
MENLO PARK, San Mateo Co., Cal. One-story reinforced concrete dormitory for boys.
Owner—Menlo School (L. S. Howard in charge), Menlo Park.
rchitect—Birge M. Clark, 310 University Ave., Palo Alto.
Contractor—F. C. Stoltz, 3449 Laguna St., Oakland.

Plumbing—Hansen Plumbing & Heating Co., 50 Homer Place, Palo Alto
Electrical Work—E. F. Burkhardt, 444 Emerson St., Palo Alto.

Ornamental and Miscellaneous Iron—H. Bleibler, 744 High St., Palo Alto.

Sheet Metal—S. M. Spangler, 841 Alma St., Palo Alto.

Roofing—Peninsula Roofing Co., Mt. View.

Tile—Tanner Tile Co., Palo Alto.

Steel Sash—Soule Steel Co., 1750 Army St., San Francisco.

Glass—Cobbedick Kibbe Glass Co., 656 Howard St., San Francisco.

Heating—Schreible Bros., 2945 Elmwood St., Oakland.

Plastering—Spaan Mros., Oakland.

Painting—J. N. Turgeon, 2055 Webster St., Oakland.

Mill Work—Pacific Mfg. Co., Monadnock Bldg., San Francisco.

Metal Partitions—Dwan & Co., 534 6th St., San Francisco.

OAKLAND, Calif.—Peabody Seating Co. (A. M. Munthe, agent), P. O. Box 3125, San Francisco, at \$4,628.70 submitted lowest bid to Board of Education, Administration Bldg., to furnish and deliver opera chairs for Fremont High School.

Following is a complete list of bids: Peabody Seating Co., S. F. \$4,628.70
F. E. Turner Co., S. F. 4,878.90
Heywood Wakefield Co., S. F. 4,941.45
C. L. Robison, Oakland 6,292.53
C. F. Weber Co., S. F. 8,344.17
Bids held under advisement.

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Bond Election To Be Held April 17.
SCHOOL Cost, \$30,000
BURNS VALLEY, Lake Co., Cal.
 One-story frame and stucco school.
 Owner—Burns Valley School District.
 Architect—Willis Lowe, 354 Hobart St., Oakland.

Plans Being Revised.
SCHOOL Cost, \$—
ELK CREEK, Glenn Co., Cal.
 One-story frame and stucco grammar school (3 classrooms).
 Owner—Elk Creek Grammar School District.
 Architect—O. A. Deichman, 111 Sutter St., San Francisco.

It is expected to call for bids in about six weeks.

Preparing Working Drawings.
ORPHANAGE Cost, \$250,000
SACRAMENTO, Sacramento Co., Cal.
 Franklin Boulevard.

Two-story and basement reinforced concrete orphanage (parochial school, dormitory, etc.)
 Owner—St. Patrick's Orphanage, Grass Valley.
 Architect—Harry J. Devine, California State Life Bldg., Sacramento.

Plans will be ready for bids in about sixty days.

BISHOP, Inyo Co., Cal.—Trustees of the Bishop Union High School District contemplate early construction of a new gymnasium in connection with the high school group to replace the structure destroyed by fire two years ago. The trustees have \$15,000 available for construction.

MONTEREY, Monterey Co., Cal.—John Taufner, Monterey, at \$21.75 per cubic yard submitted lowest bid to clerk, Monterey Grammar School District, to construct cement wall fronting grammar school property in Pacific Street. Only other bids Wm. C. Keating, Oakland and Sacramento, at \$22.50 per cu. yd.

OAKLAND, Cal.—A. M. Schick Co., 135 Tehama St., San Francisco, at \$3,629 submitted lowest bid to Board of Education, Administration Bldg., to furnish and deliver steel lockers for Fremont High School.

Following is a complete list of bids:
 A. M. Schick Co., S. F. 3,020
 Worley & Co., S. F. 3,202
 A. M. Munthe 3,246
 M. R. Clark 3,729
 Berzer Mfg. Co., S. F. 4,082
 Allsteel Equip. Co. 4,087
 Lee J. Waterhouse, S. F. 4,450
 Northwestern Steel Prod. Co. 4,599
 Maxwell Hardware Co., Oakland (locks) 647
 Bids held under advisement.

Contract Awarded.
CLUB BLDG. Cont. price, \$20,358
SAN DIEGO, San Diego Co., Calif.
 Teachers' College.

One-story frame and stucco club bldg. and one-story frame and stucco scripps building (tile roof).
 Owner—State of California.

Architect—George E. McDougall, state architect, Public Works Building, Sacramento.
 Contractor—H. Mayson, Long Beach.

Preparing Preliminary Plans.
GYMNASIUM Cost, \$25,000
GROVILE, Butte Co., Cal.

One-story steel frame and reinforced concrete gymnasium.
 Owner—Oroville Union High School District.
 Architect—N. W. Sexton, de Young Bldg., San Francisco.

TAFT, Kern Co., Cal.—Until April 25, 7 P. M., bids will be received by H. E. Csburn, clerk, Taft Union High School District, to furnish and deliver school supplies as follows: (a) janitor's supplies; (b) general instruction-

al supplies; (c) industrial arts supplies, including lumber for Manual Training; (d) transportation supplies; (e) science supplies; (f) Domestic Science supplies; (g) art supplies; (h) drugs for gymnasium and athletics. Detailed lists of items to be bid upon may be secured from the office of the High School Building. All prices quoted are to be delivered at the High School Plant, Taft. Where samples are called for no bid will be considered unless a sample is submitted. Certified check \$50 payable to clerk required with bid.

SACRAMENTO, Cal.—Capital Lumber and Wrecking Co., Sacramento, at \$1,750 submitted only bid to the Board of Education to raze the present Perry Seminary Building, a 3-story brick structure, at the SE corner of Tenth and I Sts. The bid provides that all materials connected with the work shall become the property of the contractors.

SANTA MARIA, Santa Barbara Co., Cal.—Anton Johnson Co., El Centro St., South Pasadena, general contractor, reports that sub-contracts for the erection of a new grammar school in Santa Maria, for the Santa Maria School District, have been awarded as follows: Hardware to Bennett-Montgomery Hardware Co.; painting to Atlas Paint Co.; wrought iron to A. B. Donaldson; reinforcing steel to Los Angeles Iron & Steel Co.; placing steel to C. E. West; marble and tile to Musto Keenan Co.; blackboards to John Norman; window simplex hardware to Soule Steel Co.; millwork to Pacific Sash, Door & Mill Co. Louis N. Crawford, Santa Maria, is the architect. Cost, \$100,000.

Contract Awarded.
AUDITORIUM Cont. Price, \$22,600
SACRAMENTO, Sacramento Co., Cal.
 One-story and basement brick auditorium.

Owner—St. Joseph Academy.
 Architect—Harry Devine, California State Life Bldg., Sacramento.
 Contractor—Azevedo & Sarmento, 920 O St., Sacramento.

BANKS, STORES & OFFICES

Plans Being Prepared.
MEDICAL ARTS BLDG. Cost, \$—
RICHMOND, Contra Costa Co., Cal.
 SW 9th St. and Barrett Ave.
 Two-story frame and stucco medical arts building.

Owner—Dr. C. O. Bishop, 919 Macdonald Ave., Richmond.
 Architect—Withheld.
 First floor devoted to medical and dental clinic and six-room apartment on second floor.

Owners Taking Bids.
REMODELING Cost, \$3000
VALLEJO, Solano Co., Cal.
 Remodel 3-story concrete and brick newspaper office (old Colonial type).

Owner—Vallejo Chronicle and Times-Herald, 516 Marin, Vallejo.
 Architect—F. H. Slocombe, 62 York Drive, Oakland.

Contract Awarded — Sub-Bids Being Taken.
STORE Cost Approx. \$15,000
BURLINGAME, San Mateo Co., Cal.
 No. 71 Third Street.

One-story reinforced concrete store.
 Owner—Martin Stelling and E. L. Gould, 155 Montgomery St., S. F.
 Architect—Bertz, Winter & Maury, 210 Post St., San Francisco.
 Contractor—Clinton Stephenson Construction Co., Monadnock Bldg., San Francisco.

Contract Awarded.
ALTERATION Cost, \$10,000
SAN FRANCISCO, Mission St., b
 Fifth and 6th and 6th and 7th S
 Remodel three frame store building.
 Owner—Somers Properties.
 Architect—Albert Evers, 525 Market St., San Francisco.
 Contractor—G. F. W. Jensen, 100 Market St., San Francisco.

Contract Awarded.
STORE Cost, \$35,000
OAKLAND, Alameda Co., Cal.
 Hawthorne St. and Telegraph A
 One-story frame and stucco store.
 Owner—G. J. W. Stark, 374 17th S
 Oakland.
 Architect—Not Given.
 Contractor—L. R. McWethy, 374 17th St., Oakland.

Contract Awarded.
STORE Cont. Price \$54
SAN JOSE, Santa Clara Co., Cal.
 Post and Locust Streets.
 One-story brick store.
 Owner—Henry Guilbert, 1245 Rand St., San Jose.
 Architect—Charles McKenzie, Two Bldg., San Jose.
 Contractor—William Caldwell, 12 Hedding St., San Jose.
 Electric wiring will be done by owner. Bids will be called for lat on awnings and shades.

FRESNO, Cal.—F. W. Woolworth Company will add a second story the building it occupies at 932-36 Fulton Street.

Additional Sub-Contracts Awarded
STORE Cost, \$100,000
MODESTO, Stanislaus Co., Cal. 92
 924 Tenth Street.
 Two-story and basement class C brick store (60x140-ft.)
 Owner—S. H. Kress Co., Western Pacific Bldg., Los Angeles.
 Plans by Eng. Dept. of Owner.
 Contractor—K. E. Parker, 135 South Park, San Francisco.
 Brick Work—Richard Williams, Courtry Club Bldg., Stockton.
 Painting and Decorating—A. A. Zilinsky, 4420 California Street, San Francisco.

Sheet Metal—Fire Protection Products Co., 1101 16th St., San Francisco
 Finish Wood Flooring—McLean Hardwood Floor Co., Sutter and Hazelton Sts., Stockton.
Architectural Terra Cotta—California Art Tile Co., Film Center Bldg., San Francisco.
 Other awards reported March 14.

Plans Being Figured — Bids Closed April 20.

STORE Cost, \$250,000
SACRAMENTO, Sacramento Co., Cal.
 Two-story Class reinforced concrete and steel frame store.
 Owner—S. H. Kress Co., Western Pacific Bldg., Los Angeles.
 Architect—John Fleming, 1031 S Broadway, Los Angeles.

Plans are on file at the Sacramento Builders' Exchange. Bids are to be opened in Los Angeles.
 C. F. Parker, 135 South Park, San Francisco, is figuring the plans.

Contract Awarded.
REMODELING Cost, \$12,000
SAN FRANCISCO, SW Post and Fillmore Streets.

Remodel store (new store fronts, partitions, etc.).
 Owner—Lester Loupe, 155 Montgomery Street.
 Architect—S. Heiman, 605 Market St.
 Contractor—J. S. Malloch, 665 Mission Street.
 Work involves plumbing, electric wiring, glass, plastering, tile work, etc.

Bids Under Advertisment.
STORE Cost, \$100,000
OAKLAND, Alameda Co., Cal. Broad-
way.

One-story and basement class C steel
 frame concrete and hollow tile de-
 partment store.
 Owner—Isadore Weinstein, 1041 Mar-
 ket St., San Francisco.

Architect—Wm. Knowles, 1214 Webster
 St., Oakland.
 Announcement will be made within
 a few days.

Grading Contract Awarded.
BANK Cost, \$75,000
SAN MATEO, San Mateo Co., Calif.
 B Street and Third Ave. (110 ft.
 frontage).

One-story concrete bank.
 Owner—Bank of America.
 Architect—H. A. Minton, 525 Market
 St., San Francisco.
 Contractor—Young & Horstmeier, 461
 Market St., San Francisco.

Grading—H. V. Tucker, 300 Vermont
St., San Francisco.

Sub-Bids Being Taken.
MARKET Cost, \$5000
OAKLAND, Alameda Co., Calif. SE
 Hawthorne St. and Telegraph Ave.
 One-story frame and stucco market.
 Owner—C. J. W. Stark, 374 17th St.,
 Oakland.

Architect—Not Given.
 Contractor—L. R. McWethy, 37 17th
 St., Oakland.

Bids In—Held Under Advertisment.
STORE Cost approx. \$10,000
MARTINEZ, Contra Costa Co., Cal.
 One-story steel frame and brick store
 (50x30-ft.)
 Owner—Leo Lippow, Martinez.
 Architect—L. H. Ford, 1435 Harrison
 St., Oakland.

All bids are in and will be awarded
 within one week.

Completing Plans.
STORE Cost, \$100,000
LOS ANGELES, Cal. Washington
and Reed Streets.

Two-story Class B brick and steel
 store.
 Owner—Gore Bros.
 Architect—Balch Bros. Film Exchange
 Bldg., Los Angeles.
 Lessee—Hill Bros. Furniture Co.
 Bids will be taken shortly.

Bids In.
STORE Cost, \$25,000
BAKERFIELD, Kern Co., Cal.
 One-story reinforced concrete store.
 Owner—Bank of America.

Architect—H. A. Minton, Bank of
 America Bldg., Powell and Eddy
 Sts., San Francisco.

Bids Rejected—Plans Being Revised.
STORE Cost, \$100,000
OAKLAND, Alameda Co. Cal. Broad-
way.

One-story and basement class C steel
 frame, concrete and hollow tile de-
 partment store.
 Owner—Isadore Weinstein, 1041 Mar-
 ket St., San Francisco.

Architect—Wm. Knowles, 1214 Web-
 ster St., Oakland.
 Four lowest bidders will refigure the
 plans.

Plans Being Figured—Bids Close Apr.
27th. Cost, \$25,000
BANK Hollister, San Benito Co. Cal.
 One-story reinforced concrete bank.
 Owner—Bank of America.

Architect—H. A. Minton, 525 Market
 St., San Francisco.
 Bids will be taken in one week.

Sub-Contracts Awarded.
STORES Cost, \$1,000,000
OAKLAND, Alameda Co., Cal. NW
 28th St. and Broadway.
 Eight-story and basement class A re-

inforced concrete furniture display
 rooms and stores, 100x230-ft.
 Owner—Pacific States Auxiliary Corp.
 Lessee—John Bruner Co., 15th and
 Clay Sts., Oakland.

Architect—Albert F. Roller, 1st Na-
 tional Bank Bldg., San Francisco.
 Engineer—H. J. Brunier, Sharon
 Bldg., San Francisco.
 Contractor—P. J. Walker Co., Sharon
 Bldg., San Francisco.

Terra Cotta—Clading, McBean & Co.,
660 Market St., San Francisco.
Elevators—Otis Elevator Co., 1 Beach
St., San Francisco.
Reinforcing Steel—Soule Steel Co., Ri-
alto Bldg., San Francisco.

As previously reported, concrete
 piles awarded to Raymond Concrete
 Pile Co., Hoater-Dubin Bldg., S. F.;
 excavation to J. Catucci, 1212 18th
 Ave., Oakland; wrecking to Symoa
 Bros. Wrecking Co., 22nd and E 14th
 St., Oakland.

THEATRES

Sub-Contracts Awarded.
ALTERATIONS Cost, \$60,000
RICHMOND, Contra Costa Co., Calif.
(California Theatre)

Alterations to class C steel frame and
 brick theatre (change balcony,
 etc.)
 Owner—Fox West Coast Theatres, Inc.
 Architect—Clayson and Amades,
 Hearst Bldg., San Francisco.

Contractor—James L. McLaughlin Co.,
 251 Kearny St., San Francisco.

Plumbing—R. W. Timmons, 703 Nevlin
Ave., Richmond.

Mill Work—Sunset Lumber Co., 400
High St., Oakland.

Sheet Metal—Central Sheet Metal
Works, 2847 Hannah St., Oakland.
Electric Work—Alta Electric Co., 938
Howard St., San Francisco.

As previously reported, plastering
 awarded to Henry Gregoire, 357 12th
 St., San Francisco.

Plans Being Figured.
THEATRE Cost, \$—
PASADENA, Los Angeles Co., Cal.
 S. Colorado St. E Madison Ave.

Reinforced concrete theatre (to seat
 900) (166x86 feet).
 Owner—First Trust & Savings Bank,
 Pasadena.

Architect—Walker & Eisen and C. A.
 Balch, Los Angeles.

Completing Plans.
THEATRE Cost, \$100,000
WHITTIER, Los Angeles Co., Cal.
 Greenleaf St. near Philadelphia.

Class A reinforced concrete theatre
 (100x80 feet) to seat 1000.
 Owner—A. Wardman.

Architect—David S. Bushnell, Warner
 Bros. Theatre Bldg., Whittier.
 Lessee—Hughes Franklin Theatre Co.

Plans Being Prepared.
THEATRE Cost, \$100,000
POFOYA, Los Angeles Co., Cal.
 Brick and stone tile theatre (to seat
 1000).

Owner—Hughes-Franklin Theatres.
 Architect—Louis E. Korb, 6332 War-
 ner Drive, Los Angeles.

Plans Being Prepared. Cost, \$—
THEATRE, ETC. Cost, \$—
LOS ANGELES, Cal. NW Hollywood
Bldv. and Vine St.

Two-story reinforced concrete theatre,
 offices and stores (118x142-ft.)
 Owner—Carl Laemmle.

Architect—Walker & Eisen & C. A.
 Balch, Western Pacific Bldg., Los
 Angeles.

WHARVES AND DOCKS

Plans Being Figured—Bids Close April
16, 2 P. M.
ALTERATIONS Cost, \$—

SAN FRANCISCO. On Waterfront.
 Raise and reconstruct bulkhead wharf
 structures at Sections 9A and 9B
 of the seawall and for repaving The
 Embarcadero adjacent thereto.

Owner—State of California (Harbor
 Commission), Ferry Bldg., E. F.
 Engineer—Frank G. White, Ferry
 Bldg., San Francisco.

The work to be done is divided into
 two separate contracts as follows:

Contract A for raising and recon-
 structing the bulkhead structures and
 Contract B for raising and repaving
 the Embarcadero. The materials to
 be used in this work shall consist of
 the requisite quantities of Portland
 cement (which will be furnished to
 the Contractor by the Board), hydrat-
 ed lime, plastering sand, inert ad-
 mixture, aggregate for concrete and
 bituminous mixture, steel reinforce-
 ment, structural steel, metal lath,
 galvanized iron, lumber, green piles,
 roofing materials, painting materials,
 asphaltic cement and such other ma-
 terials as may be called for in the
 plans and specifications or are neces-
 sary for the proper completion of the
 work.

Certified check 5% payable to Sec-
 retary of the Board of Harbor Commis-
 sioners required. Plans obtainable
 from engineer on deposit of \$10, re-
 turnable.

**MISCELLANEOUS
 CONSTRUCTION**

SACRAMENTO, Calif.—Until April
15, 10 A. M. bids will be received by
 Harry W. Hall, county clerk, to in-
 stall lawn sprinkling system on
 grounds of Sacramento County Hos-
 pital. Certified check 10% payable to
 Chairman of the Board of Supervisors
 required with bid. Plans obtainable
 from Chas. Deterding, county engineer
 Courthouse, Sacramento.

SAN FRANCISCO.—Meyer Rosen-
 berg, 1755 San Bruno Ave., at \$59 ce-
 yd. awarded contract by Board of S-
 niversors, under Quotation No. 176,
 to furnish loan for the park depart-
 ment for delivery to Golden Gate
 Park between Tenth Ave. and Great
 Highway and Sunset Square, 26th and
 Vicente Sts., involving 10,000 cu. yds.

Plans Being Prepared.
MORTUARY Cost, \$15,000
SACRAMENTO, Sacramento Co., Cal.
 O Street.

Two-story frame and stucco mortuary
 building.

Owner—G. L. Klumpff, 830 O St., Sacra-
 mento.
 Architect—Harry D. V. e i n e, California
 State Life Bldg., Sacramento.

Bids will be taken in two weeks.

SAN FRANCISCO.—Nine firms sub-
 mitted identical bids to Leonard S.
 Leavy, city purchasing agent, to fur-
 nish and deliver cement to the city as
 may be required from time to time
 during the fiscal year commencing
 July 1, 1931, and ending June 30, 1932.
 Bidders were: Pacific Portland Cement
 Co., S. F. Materials Co., Eclipse Lime
 and Cement Co., Henry Cowell Lime
 and Cement Co., J. S. Guerin Co.; Yo-
 semite Portland Cement Co., Santa
 Cruz Portland Cement Co., Pacific
 Coast Aggregates and Western Lime
 and Cement Co. These firms bid \$2.64
 per barrel for 30,000 bbls in carload
 lots, delivered spur tracks; \$2.64 per
 bbl. for 1,000 bbls. carload lots, ware-
 house, and \$2.74 per bbl. in less than
 carload lots, 2,000 bbls.

Felix Gross bid \$2.44 per bbl. in pa-
 per sacks, \$2.61 cloth sacks, and \$2.74
 and \$2.54, respectively, on less than
 carload lots.

Sub-Contracts Awarded.
STAGE DEPOT Cost, \$—
VALLEJO, Solano Co., Cal. Sonoma and Yorks Streets.
 One-story frame and stucco stage depot.
 Owner—Pacific Greyhound Lines, 6 Main St., San Francisco.
 Plans by Charles Dawe, 981 Peralta St., Berkeley.
 Contractor—Charles Dawe, 981 Peralta St., Berkeley.
Sheet Metal—Monarch Sheet Metal Co., Vallejo.
Plastering—Grover Ellam, 1409 Santa Fe Ave., Berkeley.
Electric—Rhodes Electric Co., Vallejo
Roofing—Western Roofing Co., 24th Poplar Sts., Oakland.
Plumbing—Wilder Plumbing Co., Vallejo.
Sash and Doors—Hager Sash & Door Co., 1290 Cedar St., Berkeley.
Lumber—Vallejo Lumber & Supply Co., Vallejo.
Cement—Cowell Lime & Cement Co., 81 Franklin St., Oakland.
Plumbing Fixtures—Tay - Holbrook, Inc., 10th and Harrison Sts., Oakland.
Kitchen Equipment—Dohrmann Hotel Supply Co., 972 Mission St., S. F.
Bolts—Payne's Bolt Works, 201 Main St., San Francisco.

Vosberg Hardware Co., 1943.20
 California Wire Cloth Co., 1945.20
 Standard Fence Co., 1953.20
 All bids rejected. New bids will be called for at a later date.
YUBA CITY, Sutter Co., Cal.—Adv-
 Yuba City Sprinkler Co., 50 Allice St., Oakland, at \$1400 awarded contract by county supervisors to install lawn sprinkler system at courthouse grounds. Complete list of bids follows:
 Advance Sprinkler Co., 50 Allice St., Oakland, 1400
 J. Crowther, 823 5th St., Marysville 1450
 Nuway Lawn Sprinkler Co., 142 McAllister St., S. F., 1467
 Frank M. Booth, 220 3rd St., Marysville 1480
 J. C. Wood, 461 St., Marysville 1485
 Rain-On-Tap Co., 424 Howard St., San Francisco, 1610
 D. F. Brown, 329 Plumas St., Yuba City, 1697
 Engineer's estimate 1496

The surveys would be made to enable general contractors to arrive at some conclusion as to the actual prevailing wage they must pay on government construction work under the new Davis-Bacon Act and to fortify them against charges of violation of this law.
VET CHIEF RAPS CONSTRUCTION SLATE

The omission of California projects from the new construction schedule of the United States Veterans' Bureau is described as "outrageous" by John J. Hayes, state commander of the Disabled American Veterans of the World War.

California needed part of the \$20,-\$77,000 fund because 27 per cent of all world war disabled veterans are in this state and many need hospitalization but lack the funds to obtain it, Hayes said.

"Conditions in San Francisco are bad enough," he continued. "but in Los Angeles they are a disgrace. Four years ago an appropriation of \$11,000,000 was made for improving the Satefile Soldiers' Home. L's than \$3,000,000 was spent and the balance of the money still is available, but has not been released."

"Meanwhile the veterans are living in firetraps, insanitary barracks and exposed to deplorable housing conditions."

BUSINESS OPPORTUNITIES

Harry Wilbur, sales manager, Ottawa Furniture Co., Holland, Mich., manufacturing a radio cabinet with radio installed or otherwise, desires representation in this territory.

Frank E. Drew, 97-A Newbury St., Boston, Mass., represents a firm with facilities for representing local company who has Eastern territory open and desires contact.

R. E. Brewer Co., Inc., 135 S Main St., Salt Lake City, Utah, distributors and sales agents, are desirous of contacting a good, reliable warm air heating manufacturer with idea in view of acting as factory representatives in the intermountain territory.

H. H. Ward, Jr., vice-president of H. H. Ward Co., Chester, Pa., manufacturing iceless refrigeration accessories and special sheet metal work wish to establish sales representation in this territory.

Maison Georges Thiebaut, S. A., 36 Quai de Commerce, Brussels, Belgium, exporters of plaster for ceilings and plaster for modelling are looking for a local market.

OAKLAND DEALERS SEEK LIEN PRIORITY

The Material Dealers' Credit Association of Oakland is fostering an amendment to the present Mechanics' Lien Law which will give a mechanic lien priority over all encumbrances on real property except the first mortgage. The legal department of the association, it is announced by J. Rosberg, manager, has been in Sacramento during the legislative session drafting a bill which, it is claimed, will eliminate all speculation and give the material dealers and sub-contractors better protection in their extension of credit.

This bill, if passed, Rosberg declares, will aid in putting the building industry on a sound and constructive basis and will eliminate the speculative conditions that have been existing under the present Mechanics' Lien Law.

Local wage surveys to provide accurate data as to the range of pay prevailing for the building trades and labor in every community in the United States, to be conducted by the Associated General Contractors of America in co-operation with its more than one hundred chapters and branches, is planned by the executive cabinet of the association. A canvass of the local groups of contractors is to be conducted at once to determine if accurate wage data can be compiled.

TRADE BODY TO PLACE ENGINEERS

As a practical aid in reducing unemployment among business executives and professional engineers, the American Trade Association Executives has established a volunteer placement committee whose services are offered free of charge both to those seeking such position and to organizations seeking such men, similar to the service rendered by the leading engineering societies for a small fee. At present there are many experienced men available to fill positions. Those who need professional engineers or technicians are requested to write to Walter V. Brown, Engineering Societies Building, 31 West 39th St., New York City, and those desiring executives are asked to communicate with the American Trade Association Executives, 45 E. 4th St., Seventeenth St., New York City.

Creation of a Bureau of Electricity and the appointment of Dan Wallace, city electrician, for superintendent of the bureau has been authorized by the Berkeley city council, on recommendation of City Manager H. R. Thompson. Heretofore, the city ordinance has designated the bureau as a department of electricity and in charge of an electrical engineer.

Six Companies, Inc., contractors for the Hoover Dam, has placed orders with Ingersoll-Rand Company for all air compressor and rock drilling equipment that will be required for the project. The stationary air plant will consist of a battery of large Class "PR" type direct connected, electric-driven compressors having a combined output of 25,000 cubic feet per minute. These compressors will supply air for driving the four diversion tunnels that will carry the waters of the Colorado River through the canyon walls around the damsite where the dam proper is being built. Smaller compressors of the portable type will operate the rock drills that will be used to scale down the canyon walls on either side of the damsite to guard against rock slides.

OAKLAND, Cal.—Ariss-Knapp Co., 961 41st St., Oakland, at \$33 cu. yd. submitted low bid to city City Port Commissioner for grading dredge filled area east of Warehouse B, involving 5,000 cu. yds. Complete list of bids follows:
 Ariss-Knapp Co., \$0.33
 Henefey-Moore Company, 0.349
 Lee J. Immel, 0.35
 Jack Carson, 0.37
 A. J. Grier, 0.389
 Paris Bros., 0.405
 Chief Construction Co., 0.44
 All bids taken under advisement.

QUINCY, Plumas Co., Cal.—Clover Valley Lumber Co., Beckwith, Calif., at \$1500 awarded contract by county supervisors to furnish 10,000 heart cedar posts, six-inches by 7-ft., delivered on highway in vicinity of Beckwith. Complete list of bids follows:
 Clover Lumber Co., \$1,500
 R. C. Stoukey, Sloat, Calif., 1,769
 Thos. Dorothy, Loyalton, 2,000
 B. L. Handley, Chico, 2,100
 E. Nelson, Calpine, 2,350
 W. E. Copren, Slerraville, 2,399
 Union Lbr. Sales Corp., Portland Oregon, 2,650
 Jas. Hall, San Francisco, 2,625
 R. E. Stoddard and Ed. Larson, Quincy, 5,000
 G. A. Ferguson and Wm. Epper-son, Nevada, 5,300
 Diamond Match Co., Chico, 5,500
 Union Lbr. Co., San Francisco, (redwood), 5,900

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, is preparing specifications and will ask bids shortly to furnish 400 No. 2 Type reflector safety zone buttons in replacement of such No. 1 type reflector safety zone buttons as may from time to time be destroyed by the Board of Public Works, credit allowance to be made by contractor on such reflectors as are replaced.

ALAMEDA, Alameda Co., Calif.—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco, at \$1943.20 submitted low bid to city council to erect 400 lin. ft. of chain link fence, 23-ft. high at Lincoln Park. Following is a complete list of bids:
 Michel & Pfeffer Iron Works, \$1,943.00
 West Coast Wire & Iron Wks, 1,943.20
 Wickwire Spener Co., 1,943.20
 California Ornamental Iron & Fence Co., 1,943.20

Engineering News Section

BRIDGES

TRINITY COUNTY, Cal.—Until April 2 P. M., bids will be received by the Highway Commission to construct a reinforced concrete girder bridge across Browns Creek, consisting of one 32-ft., 6-in. span on concrete abutments with wing walls.

SHASTA COUNTY, Cal.—Until April 2 P. M., bids will be received by the Highway Commission to construct bridge across Clear Creek about miles south of Redding, consisting of two 50-ft. steel stringer spans on concrete piers with pile foundations. 1 eleven 42-ft. steel stringer spans concrete pile bents.

JUMBOLD COUNTY, Cal.—Until April 2 P. M., bids will be received by State Highway Commission to construct a bridge across South Fork of Eel River at Dyerville, consisting of one 290-ft. through steel girder span, two 60-ft. reinforced concrete girder spans, four 45-ft., 6-in. reinforced concrete girder spans and a 33-ft. reinforced concrete girder in on concrete piers, concrete bents and a concrete abutment.

JODESTO, Stanislaus Co., Calif.—Until Surveyor George Macomber preparing plans to widen Fry Creek bridge from 26 ft. to 40 ft. Bridge is ft. long.

SIVERSIDE COUNTY, Calif.—Bids is asked next month by the State Highway Commission to widen the Mission Blvd. bridge over the Santa Ana river at the foot of Mount Rubix. The project includes widening bridge from 21- to 42 ft., constructing new concrete approaches at each end and marking of four lines traffic lanes. Est. cost \$150,000.

VALLEJO, Solano Co., Calif.—Following bids received by city council replace existing timber trestles supporting the 14-in. Green Valley water supply main. Work involves:
a) 53.80 yds. excavation;
b) 29.2 yds. concrete;
c) 24.6 yds. backfill;
d) 250 lbs. reinforcing steel;
e) lump sum for erection; and
f) total bid.

A. Frederick Anderson, 1093 Longridge St., Oakland.
E. H. Gildersleeve, Napa.
C. E. Wilkins, Sacramento.
Frank Lamb, Vallejo.
L. Tagnon, Vallejo.

(1)	(2)	(3)	(4)	(5)
\$ 1.00	\$ 1.50	\$ 1.00	\$ 3.00	\$ 4.00
.50	.75	1.00	2.00	2.00
18.00	23.00	27.50	30.00	30.00
125.00	1.50	998.30	1400.00	525.00
949.27	855.00			
.05	.06	.10	.10	.10

SALINAS, Monterey Co., Cal.—Ben Gerwick, Inc., 112 Market St., San Anselmo, at \$21,492 awarded contract to county supervisors to construct a bridge over Chalone Creek on the leaded-King City road near Metz, Supervisor District No. 3. Committee list of bids follows:

C. Gerwick	\$21,492
W. Kitchen	22,346
ves & Hart	23,964
B. McGowan	27,489
Ilvan & Sullivan	27,647

OKLAND, Cal.—J. T. Lawlor, 372 7th Ave., San Francisco, at \$7,174.80 awarded contract by county supervisors to construct a reinforced concrete multiple box culvert on the Alvarado-Centerville Road, involving:
(A) 286 cu. yds. excav. for struc.;
(B) 286 cu. yds. Portland cement concrete in structure;
(C) 53,900 lbs. reinf. steel complete, in place;
(D) removal of existing bridge, clear site, etc.

Complete list of bids follows:
(1) J. T. Lawlor, S. F. \$7,174.80
(2) J. B. Peterson, Oakland, 7,302.50
(3) Hudson & Branagh, Oak., 7,463.60
(4) Geo. Owens, Petaluma, 7,491.50
(5) Lee J. Himmel, Oakland, 7,565.15
(6) C. A. Bruce & Sons Pleas-
anton 7,638.20
(7) J. H. Fitzmaurice Oakland 7,788.19
(8) A. Holyoke, Hayward, 8,218.50
(9) Peter McHugh, S. F. 8,788.00
(10) Jones & King, Hayward, 8,973.00

(A)	(B)	(C)	(D)	
1)	\$ 30	\$15.00	\$.04	\$ 500
2)	1.25	15.00	.04	500
3) .....	.50	16.00	.05	500
4)	1.00	16.50	.035	600
5)	1.00	14.00	.0385	1200
6)	1.00	13.00	.038	1555
7)	1.10	15.30	.04	750
8) .....	.75	18.00	.04	700
9) .....	.50	16.00	.036	2100
10)	1.00	16.00	.04	1955

PLACER COUNTY, Cal.—Peter F. Bender, North Sacramento, at \$9,764 awarded contract by State Highway Commission to construct a bridge across Auburn Ravine about one-half mile west of Auburn, consisting of six 19-ft. timber spans and one 40-ft. steel beam span on timber bents with concrete footings. Project involves: 140 cu. yds. struc. excav.; 31 cu. yds. class A Portland cement conc. (struc.); 71 cu. yds. class A Portland cem. conc. (pave.); 30 cu. yds. class E Portland cem. conc.; 13,000 lbs. reinf. steel; 24,000 lbs. struc. steel, fabricating and erecting; 10,000 lbs. struc. steel; 30 M. ft. b.m. redwood timber, dense select all-heart struc. grade; 25 M. ft. b.m. redwood timber, select all-heart struc. grade; 1 lot, misc. items of work. The state will furnish structural steel.

VISALIA, Tulare Co., Calif.—Until May 4, 2 P. M., bids will be received by Gladys Stewart, county clerk, to construct reinforced concrete bridge No. 90 in Dinuba Blvd., over St. Johns River, involving:
(1) 576.59 cu. yds. class A concrete, including excavation;
(2) 57.39 cu. yds. class F concrete;
(3) 453.95 cu. yds. class A concrete in pavement;
(4) 1632 lin. ft. concrete piling (driving only);
(5) 4500 cu. yds. earth fill, approaches (6) detour (lump sum bid).

Certified check 5% payable to Chairman of the Board of Supervisors required with bid. Plans on file in office of clerk and obtainable from the County Surveyor, T. W. Switzer, on deposit of \$10, returnable.

SANTA BARBARA, Cal.—A. V. Montin, 1057 W. 80th St., Los An-

gels, awarded contract by county to construct reinforced concrete bridge over San Antonio Creek in the Third Road District.

VALLEJO, Solano Co., Cal.—A. Frederick Anderson, 1093 Longridge St., Oakland, at \$649.27 awarded contract by city council to replace existing timber trestle supporting the 14-in. Green Valley water supply main. Bids follows: 53.80 yds. excavation, \$1.00; 29.2 yds. concrete, \$.18; 24.6 yds. backfill, \$.50; 250 lbs. reinforcing steel, \$.65; lump sum for erection, \$125; total bid, \$649.27.

OKLAND, Calif.—Until April 27, 10:30 A. M., bids will be received by George E. Gross, county clerk, for painting iron and steel work on the Fruitvale Avenue bridge; estimated cost, \$1800. Specifications and further information obtainable from clerk.

LANE COUNTY, Ore.—J. K. Holt, Salem, at \$116,980 awarded contract by State Highway Department to construct bridge over Cape Creek on the Oregon Coast Highway about 12 miles north of Florence, requiring approximately 2400 cu. yds. excav., 7800 lin. ft. untreated piling, 3200 lin. ft. treated piling, 2610 cu. yds. concrete, 350,000 lbs. metal reinforcement and 1070 lin. ft. concrete handrail.

DREDGING, HARBOR WORKS & EXCAVATIONS

REDWOOD CITY, San Mateo Co., Cal.—H. W. Crozier, consulting engineer, 58 Sutter St., San Francisco, commissioned by city trustees to make a survey of Redwood Harbor with a view to compiling data for submission to the War Department, preliminary to making extensive improvements.

IRRIGATION PROJECTS

TURLOCK, Stanislaus Co., Cal.—Until April 27, 2 P. M., bids will be received by Anna Sorensen, Secretary, Turlock Irrigation District, for improvements in Improve District No. 64, involving:
Schedule No. 1.—11,872.2 sq. ft. 2-in. conc. canal lining;
Schedule No. 2.—4 concrete structures, involving 5.27 cu. yds. concrete;
Schedule No. 3.—5 concrete structures, involving 5 cu. yds. concrete.
This work will be paid for in cash by property owners.

Certified check 5% payable to district required with bid. Plans on file in office of clerk and obtainable from R. V. Meikle, chief engineer of district.

CALIFORNIA—Following permits to appropriate water were granted during the month of March by the State Department of Public Works, Division of Water Resources, Edward Hyatt, state engineer:
Permit 3652, Application 6703 (Shasta County) Elmer Gasteau, Los Angeles, for 02 c. f. s. from unnamed spring for irrigation and domestic use on 20 acres. Est. cost \$250.

Per. 3653, App. 6700 (Butte Co.) Harvey C. Adams, Chico, 3 c. f. s. from drainage on Drainage District No. #2 for irrigation use on 120 acres. Est. cost \$250.

Per. 3664, App. 6744 (Mono Co.) Raymond S. Macmillan, Los Angeles, 200 g. p. d. from unnamed spring for domestic purposes. Est. cost, \$150.

Per. 3665, App. 6834 (Sierra Co.) Langdon Smith, Deerleville, 903 c. f. s. from unnamed spring for domestic purposes. Est. cost \$500.

Per. 3666, App. 6794 (Monterey Co.) Stuart Haldorn, Monterey, 2 c. f. s. from Higuera Creek for power purposes.

Per. 3667, App. 6795 (Monterey Co.) Stuart Haldorn, Monterey, for 0.12 c. f. s. from Higuera Creek for irrigation and domestic uses.

Per. 3668, App. 6669 (San Bernardino Co.) Geneva Catherine Baxter, Lucerne Valley, Calif., 0.4 c. f. s. from (1) Deep Creek Canyon and (2) unnamed spring for irrigation and domestic use on 20 acres. Est. cost \$150.

Per. 3669, App. 6410 (El Dorado Co.) Emil E. Larsen, Placerville, 0.5 c. f. s. from South Fork Brush Canyon for irrigation and domestic use on 60 acres. Est. cost \$300.

Per. 3670, App. 6868 (Inyo Co.) H. J. Halliday, Bishop, .0035 c. f. s. from small unnamed stream for domestic and recreational uses. Est. cost \$155.

Per. 3671, App. 6706 (Humboldt Co.) E. F. Barker and Beatrice B. Barker, Orleans, 0.1 c. f. s. from unnamed Gulch for irrigation and domestic use on six acres.

CALIFORNIA—Following applications seeking permits to appropriate water were filed during the month of March with the State Department of Public Works, Division of Water Resources, Edward Hyatt, state engineer:

Application 6902 (Butte County) R. M. & H. L. Stafford, Live Oak, for 2.0 c. f. s. from Morrison Slough (Main Drain Ditch of Dist. 2066) tributary to Sacramento River for irrigation purposes (10 acres). Est. cost \$2000.

App. 6903 (El Dorado Co.) U. S. Eldorado National Forest, Placerville, for 3000 gals. per day from Granite Lake Creek tributary to Emerald Bay, Lake Tahoe, for domestic and fire protection purposes. Est. cost \$450.

App. 6904 (Lake Co.) C. G. Haycock, 2674 27th St., Sacramento, 0.5 c. f. s. from Middle Creek tributary to Clear Lake and Cache Creek for irrigation purposes (40.26 acres).

App. 6905 (Butte Co.) California Mutual Building & Loan Association, a corp., San Jose, 14.78 c. f. s. from Lateral "A" Drainage Canal of Reclamation District tributary to Butte Creek, thence Sacramento River for irrigation purposes (591.2 acres of rice).

App. 6906 (Santa Barbara Co.) Union Realty Co., P. O. Box 829, Santa Barbara, 7 gals. per min. from San Marcos spring for irrigation and domestic purposes (5 acres). Est. cost \$1200.

App. 6907 (Los Angeles Co.) U. S. Angeles National Forest, 501 Brownstein-Louis Bldg., Los Angeles, 1902 c. f. s. or approximately 1300 g. p. d. from Camp Spring tributary to Shake Canyon for domestic purposes. Est. cost, \$100.

App. 6908 (Los Angeles Co.) U. S. Angeles National Forest, 0.002 c. f. s. or approximately 1500 g. p. d. from Ranger Spring tributary to Pine Canyon for domestic purposes. Est. cost \$50.

App. 6909 (Ventura Co.) Hibbard S. Williams, P. O. Box 265, Santa Paula, 0.025 c. f. s. from unnamed spring tributary to Timber Canyon, thence Santa Clara River for mining and domestic purposes. Est. cost \$1000.

App. 6910 (Mendocino Co.) Fred W. Gordon, Cummings, Mendocino County, 0.05 c. f. s. from unnamed spring tributary to South Fork of

Eel River for domestic purposes. Est. cost \$250.

App. 6911 (Humboldt Co.) Mrs. Sarah J. Carpenter, Salyer, 2.0 c. f. s. from Ammon Creek tributary to South Fork of Trinity River for irrigation purposes (60 acres). Est. cost \$300.

App. 6912 (Humboldt Co.) Redwood Empire Golf & Country Club, Scotia, 0.267 c. f. s. from Wolverton Gulch tributary to Van Duzen and Eel Rivers for irrigation and domestic purposes (37 acres). Est. cost \$4900.

App. 6913 (Mono Co.) A. J. Warrington, Bridgeport, for 3.0 c. f. s. from Virginia Creek tributary to East Walker River, for mining purposes. Est. cost \$50.

App. 6914 (Mono Co.) A. J. Warrington, Bridgeport, for 3 c. f. s. from Dog Creek tributary Virginia Creek and East Walker River, for mining purposes. Est. cost, \$1500.

App. 6915 (Butte Co.) J. E. Carriero, Biggs, 0.81 c. f. s. from Feather River tributary to Sacramento River for irrigation purposes on 65 acres. Est. cost, \$400.

App. 6916 (San Bernardino Co.) Aubrey Wardman, Whittier, for 2.5 c. f. s. from Underground (shafts with Lateral Drifts) for irrigation and domestic purposes on 225 acres. Est. cost, \$25,000.

App. 6917 (Tuolumne Co.) W. C. Le Hane, Box 24, Modesto, for 600 c. f. s. from Stanislaus River tributary to San Joaquin River for irrigation purposes on 100,000 acres of land more or less, to be irrigated.

App. 6918 (Trinity Co.) Trinity Loop Mining Co., Marvin B. Sherwin, Secretary, Oakland, 10 c. f. s. from Hawkins Creek tributary to Trinity River for mining and domestic purposes. Est. cost, \$6000.

App. 6919 (Sutter Co.) W. S. and John W. Saunders, Tudor, 15.5 c. f. s. from Feather River tributary to Sacramento River for irrigation purposes on 400 acres.

App. 6920 (Sutter Co.) Grover C. Shannon, Tudor, 2.5 c. f. s. from Feather River tributary to Sacramento River for irrigation purposes on 55 acres.

App. 6921 (Trinity Co.) Colen F. Whittier, % Geo. Nordenholt, 6227 W. 5th St., Los Angeles, 150 c. f. s. from Soldier Creek tributary to Trinity River for mining and domestic purposes.

App. 6923 (Sierra Co.) Geo. F. Taylor, Downville, for 50 c. f. s. from Cherokee Creek tributary to North Fork of Yuba River for mining purposes.

App. 6924 (Nevada Co.) Fletcher Hamilton, San Francisco, for 25 c. f. s. from each source, not to exceed a total of 50 c. f. s. from (1) Rob Roy (2) Deadman (3) Roscoe and (4) Logan Canyons tributary to (1) and (2) Poorman Creek (3) and (4) S. Fork Yuba River for mining and domestic purposes.

App. 6925 (Sutter Co.) Boyd Farm Co., Yuba City, 20 c. f. s. from Feather River tributary to Sacramento River for irrigation purposes on 1000 acres.

App. 6926 (Sonoma Co.) Albert P. Kogler, San Francisco, for 0.05 c. f. s. from Forter Creek tributary to Mark West Creek and Russian River for irrigation and domestic purposes on 2 1/2 acres. Est. cost \$750.

App. 6927 (Lake Co.) Peter V. Pedroncini, Ukiah, 0.1 c. f. s. from 2 unnamed creeks tributary to Spruce Canyon for irrigation and domestic purposes on 1/2 acre. Est. cost, \$3000.

STREET LIGHTING SYSTEMS

PALO ALTO, Santa Clara Co., Cal.—City council contemplates installation of an electrolizer system in the residential sections of the city. Pre-

liminary estimates of approximately \$1 ft. have been submitted by A. Youens, city electrician.

LIVERMORE, Alameda Co., Cal.—Butte Electric & Mfg. Co., 956 Folsom Street San Francisco, at \$8,690 awarded contract by town clerk (940) to install electrolizers together with underground system in portions of W. Fit St., P. Electric St., and S. Livermore Ave. involving 45 Westinghouse Hollo-spun Granite electrolizers, Elmfont 1 sign 15, Style No. 338225 with type "F" fitter, together with transforme light units, etc.

Following is a complete list of bids: Butte Elec. & Mfg. Co., S. F. \$8,690; Alta Elec. Co., S. F. \$8,690; City Improvement Co., Oakland, 8.3; Hugo Frank, Hayward, 8.3; H. C. Reid, S. F. 5.0; Electric Service Co., Livermore, 5.0; Globe Electric Co., S. F. 5.0; G. S. Pearce, Oakland, 5.0

SAN FRANCISCO—Until April 2:30 P. M., bids will be received by J. Hester, secretary, Board of Public Works, to install street lighting system in Portola Drive between 24th and Evelyn Way. Bond of \$1,500 will be required of the successful bidder. Certified check 10% payable to chief of the Board of Supervisors required with bid. Plans obtainable from Engineering, 3rd floor, City Hall.

MACHINERY AND EQUIPMENT

MARE ISLAND AND SAN DIEGO, Cal.—Following is a partial list of prospective bidders to construct 25-ton floating derricks of still-type, with haul wheel, having 80-ton pontoons, steam engines, and oil burning boilers, bids for which will be opened by the Bureau of Yards & Dock Navy Department, at 11 A. M., April 29th:

Independent Iron Works, 1824 Cha. St., Oakland.
Gahagan Const. Corp., 147 Rems St., Brooklyn, N. Y.
Columbia Contracting Company, 4 Broadway, New York City.
W. V. Katenbach Corp., Box Bedford, Ohio.
Clyde Iron Works Sales Co., 856 130th St., New York City.
American Steel Dredge Co., Taylor & McKinley Aves., Ft. Wayne, Ind.
American Holist & Derrick Co., 5 Paul, Minn.

SACRAMENTO, Cal.—Until April 3 P. M., under Order No. 3171, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County necessary materials and repair in parts of a Model 208 P and H drag line. Specifications obtainable from above.

PANAMA CANAL ZONE—Until April 21, 10:30 A. M., under Schedu No. 2645, bids will be received by Purchasing Officer, Panama Canal, Washington, D. C., to furnish overhead traveling electric crane. Specification on file in office of Assistant Purchasing Agent, Fort Mason, San Francisco.

RIVERSIDE, Riverside Co., Cal.—Until April 20, 3 P. M., bids will be received by U. S. Indian Field Service, Sherman Institute, to furnish 15 1/2 ton truck. Specifications obtainable from above.

SANTA CLARA, Santa Clara Co. Cal.—Austin Western Road Machinery Co., San Francisco, at \$5,675 awarded contract by city trustees to furnish motor street sweeper.

FIRE ALARM SYSTEMS

LOS GATOS, Santa Clara Co., Cal.—Chief of the Fire Department, Jack Wilvan, recommends to city trustees installation of a modern fire alarm system to replace the present obsolete system. The new system with fire whistle, control panel and boxes, would cost \$4,000.

SAN MATEO, San Mateo Co., Cal.—By Manager E. F. Wilsey completes, notification for traffic signal to be installed at 12th Ave. and El Camino and bids have been ordered received, to be opened probably May 4. Specifications are on file in office of clerk.

FIRE EQUIPMENT

HUNTINGTON PARK, Los Angeles Co., Cal.—Until 8 P. M., April 20, bids will be received by the Huntington Park city council for furnishing 2800 ft. of fire hose as follows:
2000 ft. 3/4-in. hose;
800 ft. 1 1/2-in. hose.
Certified check 10%. W. P. Mahood, city clerk.

RESERVOIRS AND DAMS

SANTA BARBARA, Cal.—Victor E. Coe, city water superintendent, is making surveys to construct rock fill dam below the Gibraltar reservoir. It would be 55-ft. above the level of the present spillway.

LA WORTHORNE, Nev.—T. G. Rowd, Salt Lake City, Utah, at \$100,000 awarded contract by Bureau of Reclamation and Docks, Navy Department, under Specification No. 6165, to construct Cat Creek Dam in connection with Nevada Amusement Park at La WORTHORNE. The work consists of constructing a constant angle type concrete dam approx. 120 ft. in height retaining rock excavation, concrete work, drilling grout holes, pressure testing, pipe and fittings for grout and drainage systems, and intake and screens. Complete list of to-bids on this project was published issue of March 31.

EATLEE, Wash.—Bids will be asked once by Board of Public Works construct the \$775,000 reservoir and pipeline for the West Seattle District; reservoir will have capacity of 900,000 gallons; two standpipes, each 8 in. capacity of 1,000,000 gallons. They will measure 92 ft. in diameter 130 ft. in height. Two reservoirs planned, but only one will be constructed at this time. The tanks will be located at Fourth Ave. southwest at Trenton Street extended.

PIPE LINES, WELLS, ETC.

SALINAS, Monterey Co., Cal.—Pacific Gas and Electric Co., 245 Market St., San Francisco, will construct a natural gas line in the Lakeside District at Seaside to serve 123 consumers. Project will involve 9,510 ft. 4 1/2-in. line and 19,525 ft. 2-in. mains, running at the Castrolville road between Vina and Ramona Aves. T. W. Oll is division manager for the company at Salinas.

SEWERS AND SEWAGE DISPOSAL PLANTS

STOCKTON, San Joaquin Co., Cal.—Until April 20, 11 A. M., new bids will be received by Eugene D. Graham, city clerk, to construct sanitary sewer at county fair grounds. Previous bids were rejected. Certified check 10% payable to Chairman of Board of Supervisors required with bid. Plans obtainable from Julius Manthey, county surveyor.

lus Manthey, county surveyor.

LOS ANGELES, Calif.—Radich and Granich, 410 North Vermont St., Los Angeles, at \$149,845 awarded contract by Board of Public Works to construct sewers in 114th St. and Monitor Ave. Sewer District.

STOCKTON, San Joaquin Co., Cal.—As previously reported, bids will be received April 20, 11 A. M., by Eugene D. Graham, county clerk, to construct sanitary sewer at county fair grounds. Project involves:

- 1488 ft. 12-in. cast iron pipe;
- 18 12-in. wyes;
- 20 ft. 4-in. vitrified pipe;
- 10 4-in. wyes;
- 10 4-in. bends;
- 5 manholes;
- 1 flush tank;
- 425 ft. 2-in. galvanized pipe;
- 2 3/4-in. gate valves;
- 2 concrete valve boxes.

Previous bids were rejected. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from Julius Manthey, county surveyor.

SAN FRANCISCO—Healy - Tibbitts Const. Co., 64 Pine St., at \$113,650 awarded contract by Board of Public Works to construct Section B of the 15th St. sewer; circular reinforced concrete construction. Monson Bros., 475 6th St., were low bidders on this project at \$99,925 but were permitted to withdraw due to error. Complete list of unit and total bids published in issue of March 25.

BURLINGAME, San Mateo Co., Cal. City council has taken under consideration the plans submitted by City Engineer C. M. Thomas for sewage disposal plant and pumping station to serve Burlingame, Burlingame Hills and Hillsborough.

WATER WORKS

SACRAMENTO, Cal.—Henry D. Dewell, structural engineer, 55 New Montgomery St., San Francisco, has been selected by the city council to supervise construction of the new settling basin in connection with the Municipal Filtration Plant and for which bonds of \$480,000 were recently voted to finance. Fred J. Klaus is city engineer.

SACRAMENTO, Calif.—Until April 12, 10 A. M., bids will be received by Harry W. Hall, county clerk, to install lawn sprinkling system on grounds of Sacramento County Hospital. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from Chas. Deterding, county engineer Courthouse, Sacramento.

FOULDER CITY, Nevada—Thos. Haverly Co., 315 E 8th St., Los Angeles, at \$55,613.32 submitted the low and complete bid to the U. S. Reclamation Bureau, Denver, Colo., to furnish high pressure line materials for the Boulder City water supply, under Specification No. 514-D. Project fully described in issue of March 25.

April 4, 1931

AWARDS

SAN FRANCISCO—Following firms awarded contracts by Board of Supervisors to furnish and deliver pipe and fittings under Quotation No. 1791, as may be required by the city for the period commencing April 1 and ending June 30, 1931: 1. A. Lettich on pipe of the "Wheeling" or of the "Republican" brand. 2. Stearns Plumbing and Service Corp. 3. Olsen & Heffernan. 12. Tay-Hollbrook, Inc. 14. P. E. O'Hair & Co. 15. Richmond Sanitary Co., on pipe of the "Wheeling" brand. 18. Grinnell Co. of the Pacific.

SAN FRANCISCO—Fornal Mfg. Co., 1379 67th St., Oakland, awarded contract by Board of Supervisors, under Proposal No. 632, to furnish concrete meter boxes for San Francisco Water Department, as follows: Concrete Meter Boxes for 1/2-, 3/4- and 1-inch meters: (a) concrete box, \$0.30; (b) concrete lid, \$0.30. Concrete Meter Covers for 1 1/2- and 2-inch meters: (a) concrete frame, \$1.40; (b) concrete lid, \$0.35. Same to be furnished as required for period commencing at same date and ending Dec. 31, 1931; orders to be placed in lots of full auto trucks. Above bids f.o.b. 639 Bryant Street.

SONOMA, Sonoma Co., Calif.—Mission Hardware Co., Sonoma, at \$395 awarded contract by city trustees to install pump and motor in City Plaza and to M. Lange, Sonoma, at \$169 to excavate pit in connection with the project. Details published in issue of March 25.

OAKLAND, Calif.—Chapman Valve Mfg. Co., 525 4th St., San Francisco, at \$1,675 awarded contract by East Bay Municipal Utility District to furnish and deliver five 24-in. diameter gate valves for distributing system. Complete list of bids follows:
Chapman Valve Co. \$1,675
Rensselaer Valve Co. 1,775
American Brass & Copper Co. 1,907
Water Works Supply Co. 1,838
Crane Company 2,250
Dunham, Carrigan & Hayden 2,286

MARTINEZ, Contra Costa Co., Cal. Sterling Pump Co., Stockton, at \$1,230 awarded contract by county supervisors to furnish and install deep well turbine pump for Contra Costa County Water District No. 1. Following is a complete list of the bids received:

- Wood & Little 1,696
- Pelton Water Wheel Co. 1,170
- Wilson Machinery Co. 1,196
- Sterling Pump Co. 1,230
- Bryon-Jackson Co. 1,250
- Symons Machinery Co. 1,287
- E. W. Glazier 1,345
- Pacific Pump Co. 1,417

GLENDORA, Los Angeles Co., Cal.—Bids for furnishing cast iron pipe and black screw pipe opened by city council March 31, follow:

- (1) 1100 ft. 12-in. class B cast iron pipe;
- (2) 2400 ft. 8-in. do;
- (3) 2000 ft. 6-in. do;
- (4) 4000 ft. 4-in. black standard screw pipe.

Cast Iron Pipe

C. G. Slauson & Co., (1) \$1,539; (b) \$8.3c; (c) \$3.3c; foreign pipe.
Grinnell Co., (1) \$1.40; (2) 82c; (3) 62c; foreign pipe.
Central Foundry Co., bid on 150-lb. Universal pipe, (1) \$1.35; (2) 77.4c; (3) 56c.

U. S. Pipe & Foundry Co., class 250, (1) \$1.75; (2) 97c; (3) 64c.
American Cast Iron Pipe Co., class 250, (1) \$1.716; (2) 94c; (3) 61.9c; class 200, (1) \$1.555; (2) 87.3c; (3) 61.9c.

Pacific States Cast Iron Pipe Co., class 150, item 4 (4-in.) 35.6c ft. cast iron pipe.
National Cast Iron Pipe Co., class 250, (1) \$1.86; (2) \$1; (3) 65.8c.

Black Screw Pipe

Santa Fe Pipe & Foundry Co., (4) 42c, 11 lbs. to ft.
Ducumman Corp., (4) 47.32c ft. f.o.b. Los Angeles, 48.25c ft. dipped.
Mel O. Haldeman Corp., (4) 45.08c, 46.7c ft. dipped.
Crane Co., (4) 45.08c ft., 47.32c ft. dipped.
Standard Pipe & Supply Co., (4) 42c ft., 43.25c ft. dipped.
Pacific Pipe & Supply Co., (4) 47.32c ft., 48.58c, dipped.
Calif. Pipe & Supply Co., wrought steel pipe, (4) 57.09c ft., 67.09c ft. dipped.

MANTECA, San Joaquin Co., Cal.—Pacific States Cast Iron Pipe Co., 111 Sutter St., San Francisco, for pre-cast pipe and fittings awarded contract by city trustees to furnish and deliver:

2820 ft. class E sand cast, class 150 Mono cast or class 150 de Lavaud, 6-inch bell and spigot end cast iron pipe. Five 6-inch class B cast iron all tell crosses.

Six 6-inch bell end class B cast iron tees; Four 6-inch to 4-inch class B, cast iron tapered reducers;

Fifteen 6-in. class B, cast iron plugs. Following is a complete list of bids: Pacific States C. I. Pipe Co. (open bell) \$1,813.90; 2,820 ft. class 150 McWane 12-ft. lengths, @ 59.5 (\$1,677.90). Pre-cast pipe and fittings, \$2,046.30; 2,820 ft. 6-in. class 150 McWane pre-cast, 12-ft. lengths, 66.6c, \$1,875.50.

American C. I. Pipe Co., San Francisco, \$1,829.95; 2,820 ft. 6-in. class 150 Mono cast, 16-ft. lengths, @ 60c.

United States Pipe & Foundry Co., San Francisco, \$1,923.70; 2,820 ft. 6-in. de Lavaud, class 150, 12- or 18-foot lengths, @ .6275c, \$1,769.55.

C. G. Clausen & Co. Inc., San Francisco, \$1,983.65; 2,820 ft. 6-in. class 150 @ 65c, \$1,833.

Hercules Foundries, Inc., Huntington Park, bidding on fittings only, \$117.49.

OAKLAND, Calif.—Until April 17, 5:30 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., to furnish one Manual Control Vacuum Feed Chlorinator. Specifications obtainable from secretary.

GRIDLEY, Butte Co., Cal.—County council due to error in advertising, rejects bids received April 6 to furnish and deliver cast iron water pipe and fittings as follows: 1500 ft. 6-in. class B cast iron bell and spigot pipe; 2000 ft. 4-in. do; eight 4-in. double hub fittings side outward tap 2-in. stand. thread; two 8x4 reducers, bell and spigot; two 4x4 all bell tees; two 4-in. plugs tap 2-in. sand. thread; six 6-in. do. New bids will be asked at once, to be opened probably April 27. J. L. Lewis is city clerk.

BOULDER CITY, Nev.—Until 3 P. M., April 17, bids will be received by the U. S. Bureau of Reclamation, 1441 Welton St., Denver, Colo., for pressure control equipment for the Boulder City water supply line, Boulder Canyon Project, Arizona - California-Nevada. The equipment desired follows:

(1) Six automatic hydraulically operated control valves, two automatic check valves and two automatic relief valves.

(2) Four automatic air valves.

If both items are bid on, combination bids will be allowed. Specification No. 516-D may be obtained from the department at the above address upon payment of 25c each copy.

PLAYGROUNDS & PARKS

SAN FRANCISCO.—Meyer Rosenberg, 1755 San Bruno Ave., at \$59 cu. yd. awarded contract by Board of Supervisors, under Quotation No. 1739, to furnish loam for the park department for delivery to Golden Gate Park between Tenth Ave. and Great Highway and Sunset Square, 26th and Vicente Sts., involving 10,000 cu. yds.

STREETS AND HIGHWAYS

SAN JOSE, Santa Clara Co., Cal.—A. J. Raisch, Burrell Bldg., San Jose, at \$19,937 awarded contract by county supervisors to improve Edmunson Ave. in Supervisor District No. 1, involving two miles oil macadam pave.

Complete list of bids follows:

A. J. Raisch.....\$19,937
Granite Construction Co.....20,670
Feria and Reed.....23,826

SAN JOSE, Santa Clara Co., Cal.—A. J. Raisch, Burrell Bldg., San Jose, at \$3,990 awarded contract by county supervisors to improve Mt. Pleasant Road in Supervisor District No. 2, involving three-fifth mile of oil macadam pavement. Complete list of bids follows:

A. J. Raisch.....\$3,990
Granite Construction Co.....4,510
O. G. Ritchie.....5,980

SAN JOSE, Santa Clara Co., Cal.—A. J. Raisch, Burrell Bldg., San Jose, at \$15,905 awarded contract by county supervisors to improve McKee Road in Supervisor District No. 3, involving 1 1/4 miles of asphalt concrete pavement. Complete list of bids follows:

A. J. Raisch.....\$15,905
Union Paving Co.....16,414
F. & H. Const. Co.....16,541
San Jose Paving Co.....23,982

RIVERSIDE, Riverside Co., Calif.—Davidson and Fulmer, consulting engineers, 646 W 7th St., Riverside, complete plans to improve 10.5 miles of highway in County Imp. District No. 7 in the vicinity of the La Quinta Hotel, involving:

- (1) 1,620,567 sq. ft. California road mix (6-in. thick);
 - (2) 570 ft. 18-in. corr. metal pipe;
 - (3) 130 cu. yd. grading;
 - (4) 2624 cu. yds. grading;
- Proceedings under the County Improvement Act and the bonds will be issued under the 1915 Bond Improvement Act. Bids will be asked by the county supervisors within 60 days.

SAN DIEGO & IMPERIAL COUNTIES, Cal.—Bids will be asked shortly by the directors of Joint Highway District No. 17, to surface portions of the Kane Springs-Julian Highway, involving:

- (1) 784,650 sq. ft. 5-in pre-mix oil surfacing with seal coat;
- (2) 37,490 lin. ft. subgrade;
- (3) 228 cu. yds. reinf. concrete struc. (check walls);
- (4) 210 cu. yds. pre-mix surf. stock-piled.

Plans and specifications for this work, which will be approximately 7.25 miles, starting 2 miles north of Kane Springs and extending toward San Diego. A charge to cover the cost of the plans will be made. Ernest R. Childs, county surveyor of San Diego County, is the district engineer.

TUOLUMNE & MARIPOSA COUNTIES, Cal.—Until April 21, 3 P. M., bids will be received by R. E. Pierce, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, for furnishing and applying light and heavy fuel oil as a dust layer on 38.9 miles between Priests Hotel and Yosemite National Park.

SAN FRANCISCO.—Until 2 P. M., April 16, bids will be received by the State Harbor Commission, Ferry Bldg., for repairing the Embarcadero, involving:

- (1) 60,000 sq. ft. 2 1/2-in. Topoka su;
- (2) 231,700 sq. ft. 1 1/2-in. Topoka su on 4-in. tinder;
- (3) 500 tons bituminous mix;
- (4) 8 catch basins;
- (5) 8 lump sum, remove and reset granite curb;
- (6) raising manholes, catch basins, etc.

F. G. White, chief engineer, Ferry Bldg.

AMADOR COUNTY, Cal.—Until April 20, 3 P. M., bids will be received R. E. Pierce, district engineer, State Highway Commission, to treat weight and heavy fuel oil as a dust preventive, 24.3 miles between Chapman and Silver Lake.

MONO COUNTY, Calif.—Robinson Roberts Co., Rives-Strong Bldg., Los Angeles, at \$125,621 submitted low bid April 8 to State Highway Commission to grade 14.2 miles between 2 mill west of Bridgeport and Sonora Junction. Complete list of bids follows: Robinson-Roberts Co., L. A.....\$129,600
Kennedy-Bayless Co., Biggs.....165,500
C. G. Willis & Son, L. A.....176,500
Hemstreet & Bell, Marysville.....183,300
H. W. Rohl Co., L. A.....183,100
Triangle Rock & Gravel Co.....192,400
San Bernardino.....192,400
Morrison-Knudsen Co., Boise.....193,500
C. W. Ellis, Los Angeles.....193,500
Gist & Bell, Arcadia.....197,200
Nevada Const. Co., Fallon.....199,100
Macdonald & Kahn, S. F.....220,300
C. Emil Force, Piedmont.....231,700

SAN FRANCISCO—Bureau of Engineering, Department of Public Works is completing plans to improve 17 1/2 shore Blvd. from Key Ave. to The St., involving paving and appurte areas. Work to be financed from the 1927 Blvd. Bond Fund.

BURLINGAME, San Mateo Co., Cal.—City council has started proceeding to pave Newhall road, between Sanchez and Floribunda Aves. C. I. Thomas is city engineer.

SANTA BARBARA, Calif.—Until April 15, bids will be received by county supervisors to improve Turnpike Road, consisting of a graded and drained highway on Golet Foothill Blvd., from Centintas Road 6300 lin. ft. west. Est. cost, \$15,800. Owen H. O'Neill, county surveyor.

SAN FRANCISCO.—Until April 17, 2:30 P. M., bids will be received by J. Hester, secretary, Board of Public Works, to improve southeast one-half of Selby St. bet. Quesada and Revere Aves, involving:

- (1) 6000 lin. ft. concrete curb;
- (2) 63 lin. ft. 6-in. V.C.P. side sewers
- (3) 3,400 sq. ft. asphalt. conc. pavement 2-in. asphalt. conc. surface on 6-ft

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.
Phone Garfield 4374

San Francisco

class F concrete base.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN MATEO COUNTY, Cal.—Basich Bros. Const. Co., Torrance, at \$212,933 submitted low bid April 8 to State Highway Commission to pave with Portland cement concrete, 3.0 miles between Burlingame and San Mateo. Complete list of bids follows:

Basich Bros., Torrance.....	\$212,933
Harrubon Co., S. F.....	217,447
Frederickson & Watson and Frederickson Eros., Oakland.....	233,023
C. W. Wood, Stockton.....	241,692

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, is preparing specifications for grading, draining and oiling of the slide area at Joost Ave. from Acadia to Baden Sts.

ALAMEDA, Alameda Co., Cal.—Hutchinson Co., 1450 Harrison Street, Oakland, at \$765 submitted lowest bid to city council to resurface south tennis courts at Lincoln Park. Following is a complete list of the bids received: Hutchinson Co., Oakland.....\$765 Hestey-Moore Co., Oakland.....775 W. H. Larsen, Berkeley.....910 Bids were all rejected. New bids may be called for at a later date.

HOLLISTER, San Benito Co., Cal.—City council petitioned by property owners to pave College St. bet. Pepper and Fourth Sts. and from 4th to 5th Sts.; Locust Ave. to 1st St. and from 1st to 5th Sts.; Central Ave. from Line to Powell, and Mapleton Avenue from 4th to Central Ave. A 4-in. waterbound macadam base with 1-inch asphaltic road oil surface is requested. The council, however, does not favor the type of pavement suggested.

SANTA MARIA, Santa Barbara Co., Cal.—Santa Maria Const. Co., at \$22,349.26, second low bidder, awarded contract by city council to improve E Cook St. bet. Suey Ave. and Lincoln St., and portions of Cypress and other streets, involving:

- (1) 152,000 sq. ft. 4-in. asph. pavement top, 2 1/2-in. base;
 - (2) 11,730 sq. ft. 1-in. Portland cement concrete gutters;
 - (3) 1,580 ft. curbs;
 - (4) 7,786 sq. ft. cem. concrete walks;
 - (5) 468 sq. ft. driveway aprons.
- | |
|--|
| (A) Santa Maria Const. Co., \$22,349.26 |
| (B) R. H. Crummeys, S. F., 26,338.27 |
| (C) Southwest Paving Co., Los Angeles..... 33,072.64 |
| (D) San Jose Paving Co., San Jose..... 33,105.76 |
| (E) A. G. Raich, S. F..... 35,820.10 |
- | | | | | | |
|----------|-------|-------|------|------|------|
| (1)..... | \$145 | \$185 | \$45 | \$17 | \$20 |
| (B)..... | 145 | 18 | 50 | 17 | 18 |
| (C)..... | 185 | 21 | 58 | 19 | 20 |
| (D)..... | 185 | 20 | 62 | 20 | 22 |
| (E)..... | 20 | 25 | 50 | 20 | 30 |

CLARK COUNTY, Nev.—Until April 15, 3:30 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, Nevada, for furnishing asphaltic fuel oil, applying and mixing it with a crushed rock or crushed gravel surface on a portion of the State Highway system on Clark County from the California-Nevada State Line to Jean, a length of 12.62 miles.

Certified check 5% required with bid. Plans on file in office of the U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from the engineer on deposit of \$15, of which \$10 is returnable.

ELKO COUNTY, Nev.—Until April 15, 3:30 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, Nevada, for grading, constructing structures, placing

surfacing material and furnishing asphaltic fuel oil, applying and mixing it with a crushed rock or crushed gravel surface between the South Elko County Line and Wendover, a length of 53.54 miles.

Certified check 5% required with bid. Plans on file in office of the U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from the engineer on deposit of \$15, of which \$10 is returnable.

ELKO COUNTY, Nev.—Until April 15, 2:00 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, Nevada, for grading, constructing structures and placing surfacing material between Death and Wells, a distance of 13.53 miles.

Certified check 5% required with bid. Plans on file in office of the U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from the engineer on deposit of \$15, of which \$10 is returnable.

TRINITY COUNTY, Cal.—Until Apr. 29, 2 P. M., bids will be received by State Highway Commission to construct approaches to the Browns Creek Bridge and Trinity River Bridge involving 0.5 mile to be graded and surfaced with untreated crushed stone or gravel.

SAN FRANCISCO—Until April 15, 2:30 P. M., new bids will be received by S. J. Hester, secretary, Board of Public Works to improve footings St. bet. Harkness and Wilde Avenues, involving:

- (a) 20 lin. ft. V.C.P. side sewer;
- (b) 720 sq. ft. class E conc. pavement.

Previous bids received were rejected, these being: M. Bertolino (a) \$3; (b) \$40. C. B. Eaton (a) \$1; (b) \$52. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from the Bureau of Engineering, 3rd floor, City Hall.

EL DORADO COUNTY, Cal.—Until April 29, 2 P. M., bids will be received by State Highway Commission to grade and surface with crusher run base and untreated crushed gravel or stone, 1.7 miles between Placerville and the Railroad Crossing.

MODOC COUNTY, Cal.—Until April 29, 2 P. M., bids will be received by State Highway Commission to surface with bituminous treated crushed stone or gravel surfacing, 23.8 miles bet. Rush Creek and Hot Creek.

LASSEN AND MODOC COUNTIES, Cal.—Until April 29, 2 P. M., bids will be received by State Highway Commission to surface with bituminous treated crushed gravel or stone, 21.5 miles between Hillside and Rush Creek.

ORANGE COUNTY, Cal.—Until Apr. 29, 2 P. M., bids will be received by State Highway Commission to grade

and pave with Portland cement concrete and asphalt concrete, 5.5 miles between San Mateo Creek and Serra. See call for bids under official proposal section in this issue.

SAN FRANCISCO—Until April 15, 2:30 P. M., new bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Santiago St. bet. 41st and 44th Avenues, involving:

- (a) 347 lin. ft. concrete curb;
- (b) 325 lin. ft. 6-in. V.C.P. side sewer (c) 868 sq. ft. asph. conc. pavement.

Previous bids rejected, these being: C. L. Harney (a) \$150; (b) \$1; (c) \$48; E. J. Treacy (a) \$1; (b) \$150; (c) \$46. Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN FRANCISCO—Municipal Const. Co., Call Bldg., awarded contract by Board of Public Works to improve Salmas Ave. east of Wheat St., involving 70 lin. ft. armored concrete curb, \$150; 20 lin. ft. 6-in. V.C.P. side sewer, \$150; 1400 sq. ft. asphalt concrete pavement, consisting of a 2-in. asph. conc. surface on a 6-in. class F concrete base, \$45.

SAN FRANCISCO—M. Bertolino, 25 Shotwell St., at \$175 sq. ft. awarded contract by Board of Public Works to construct 5,000 sq. ft. of cement sidewalks in State St. bet. Levant and Castro Sts., etc.

SAN FRANCISCO—Union Paving Co., Call Bldg., awarded contract by Board of Public Works to improve Head St. bet. Shields and Sargeant Sts., involving: 175 lin. ft. armored concrete curb, \$140; 6-in. V.C.P. side sewer, \$150; 2625 sq. ft. 6-in. class E concrete pavement, \$32.

OAKLAND, Cal.—City Engineer W. N. Frickstad completes plans to improve portions of Plymouth St., 99th Ave. and Cherry St., involving:

- (1) 4,571 cu. yds. excavation;
- (2) 2,802 lin. ft. conc. curb;
- (3) 6,992 sq. ft. conc. gutter;
- (4) 42,178 sq. ft. penetration macadam pavement;
- (5) 170 lin. ft. 8x24-in. corr. iron and concrete culvert;
- (6) 87 lin. ft. 8x29-in. do;
- (7) 6 handholes;
- (8) 280 lin. ft. 8-in. vit. pipe sewer
- (9) 1 8-in. lamphole;
- (10) 10 wye branches.

OAKLAND, Cal.—Until April 16, 12 noon, bids will be received by Frank C. Merritt, city clerk, to improve portions of 88th Avenue between Hillside St. and Olive St., involving grading, curbs and gutters, paving, sewer with appurtenances. 1911 Act. Certified check 10% payable to city required with bid. Plans obtainable from city clerk. Walter N. Frickstad, city engineer.

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SPECIFY -- USE

Timpie Hydrated Lime

STRONG—PURE—PLASTIC

Ten Years of Uniformly Satisfactory Experience In High
Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

Sold by Representative Dealers Everywhere

SAN DIEGO COUNTY, Cal.—E. P. Ford, East San Diego, at \$240,751 awarded contract by State Highway Commission to pave with Portland cement concrete 8.3 miles between La Posta Creek and Campo Road Junction.

SAN JOSE, Santa Clara Co., Cal.—Union Paving Co., Call Bldg., San Francisco, awarded contract by city (\$314) to improve San Fernando St. bet. 18th and 24th Streets, involving grading, pave with 1½-in. asph. conc. surface with 3-in. asph. conc. base, cement concrete curbs, walks and gutters.

SAN FRANCISCO.—Until April 15, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Quesada Ave. bet. Rankin St. and Point 250 ft. southerly, involving:
 (1) 100 lin. ft. armored concrete curb;
 (2) 70 lin. ft. 6-in. V.C.P. side sewers;
 (3) 550 sq. ft. 2-course conc. sidewalks;
 (4) 1750 sq. ft. asph. conc. pavement, 2-in. asph. conc. surface on 6-in. class F concrete base.
 Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, is completing specifications to improve Section of Alameda Blvd. from Seneca to Ottawa Aves. Work will be financed from the 1927 Blvd. Bond Fund. Details will be published shortly.

SAN FRANCISCO.—Until April 15, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Alameda St. bet. Sargent and Randolph Sts., and Sargent St. bet. Ralston and Vernon Sts., involving:
 (1) 175 lin. ft. armored concrete curb;
 (2) 105 lin. ft. 6-in. V.C.P. side sewers;
 (3) 2625 sq. ft. 6-in. class E concrete pavement.
 Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

SAN FRANCISCO.—Until April 15, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Quint Street bet. Oakdale and Falou Aves., involving:
 (1) 400 lin. ft. armored conc. curb;
 (2) 66 lin. ft. 6-in. V.C.P. side sewer;
 (3) 32 lin. ft. 8-in. V.C.P. sewer;
 (4) 47 lin. ft. granite curb, to be reset;
 (5) 47 lin. ft. concrete curb, to be reset;
 (6) 10 lin. ft. V.C.P. culvert;
 (7) 250 sq. ft. asph. conc. conform pavement;
 (8) 150 sq. ft. 1-course concrete sidewalk;
 (9) 3 brick catchbasins;
 (10) 3 brick manholes;
 (11) 8230 sq. ft. asph. conc. pavement, 2-in. asph. conc. surface on 6-in. class F concrete base.

SAN FRANCISCO.—Until April 15, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Quint Street bet. Oakdale and Falou Aves., involving:
 (1) 400 lin. ft. armored conc. curb;
 (2) 66 lin. ft. 6-in. V.C.P. side sewer;
 (3) 32 lin. ft. 8-in. V.C.P. sewer;
 (4) 47 lin. ft. granite curb, to be reset;
 (5) 47 lin. ft. concrete curb, to be reset;
 (6) 10 lin. ft. V.C.P. culvert;
 (7) 250 sq. ft. asph. conc. conform pavement;
 (8) 150 sq. ft. 1-course concrete sidewalk;
 (9) 3 brick catchbasins;
 (10) 3 brick manholes;
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SAN FRANCISCO.—Until April 15, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Quint Street bet. Oakdale and Falou Aves., involving:
 (1) 400 lin. ft. armored conc. curb;
 (2) 66 lin. ft. 6-in. V.C.P. side sewer;
 (3) 32 lin. ft. 8-in. V.C.P. sewer;
 (4) 47 lin. ft. granite curb, to be reset;
 (5) 47 lin. ft. concrete curb, to be reset;
 (6) 10 lin. ft. V.C.P. culvert;
 (7) 250 sq. ft. asph. conc. conform pavement;
 (8) 150 sq. ft. 1-course concrete sidewalk;
 (9) 3 brick catchbasins;
 (10) 3 brick manholes;
 (11) 8230 sq. ft. asph. conc. pavement, 2-in. asph. conc. surface on 6-in. class F concrete base.

SAN FRANCISCO.—Until April 15, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Quint Street bet. Oakdale and Falou Aves., involving:
 (1) 400 lin. ft. armored conc. curb;
 (2) 66 lin. ft. 6-in. V.C.P. side sewer;
 (3) 32 lin. ft. 8-in. V.C.P. sewer;
 (4) 47 lin. ft. granite curb, to be reset;
 (5) 47 lin. ft. concrete curb, to be reset;
 (6) 10 lin. ft. V.C.P. culvert;
 (7) 250 sq. ft. asph. conc. conform pavement;
 (8) 150 sq. ft. 1-course concrete sidewalk;
 (9) 3 brick catchbasins;
 (10) 3 brick manholes;
 (11) 8230 sq. ft. asph. conc. pavement, 2-in. asph. conc. surface on 6-in. class F concrete base.

SAN FRANCISCO.—Until April 15, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Quint Street bet. Oakdale and Falou Aves., involving:
 (1) 400 lin. ft. armored conc. curb;
 (2) 66 lin. ft. 6-in. V.C.P. side sewer;
 (3) 32 lin. ft. 8-in. V.C.P. sewer;
 (4) 47 lin. ft. granite curb, to be reset;
 (5) 47 lin. ft. concrete curb, to be reset;
 (6) 10 lin. ft. V.C.P. culvert;
 (7) 250 sq. ft. asph. conc. conform pavement;
 (8) 150 sq. ft. 1-course concrete sidewalk;
 (9) 3 brick catchbasins;
 (10) 3 brick manholes;
 (11) 8230 sq. ft. asph. conc. pavement, 2-in. asph. conc. surface on 6-in. class F concrete base.

TULARE COUNTY, Calif.—Valley Paving and Construction Co., Bank of America Bldg., Fresno, at \$14,967.50 submitted low bid to E. F. Wallace, district engineer, State Highway Commission, Fresno, for bituminous treated crushed gravel or stone borders on ¾ mile from westerly boundary to 3 ½ mile west of the Plaza Garage.

OAKLAND, Cal.—City council declares intention to improve portions of Plymouth St., 99th Ave. and Cherry St., involving:

- (1) 4,571 cu. yds. excavation;
 - (2) 2,892 lin. ft. concrete curb;
 - (3) 4,629 sq. ft. concrete gutter;
 - (4) 15,173 sq. ft. penetration macadam pavement;
 - (5) 170 lin. ft. 8x24-in. corrug. iron and concrete culvert;
 - (6) 87 lin. ft. 8x23-in. do;
 - (7) 6 handholes;
 - (8) 280 lin. ft. 8-in. vit. pipe sewer;
 - (9) 1 8-in. lamp pole;
 - (10) 10 wye branches.
- Imp. Act 1915. Hearing April 23. Frank C. Merritt, city clerk. Walter N. Frickstad, city engineer.

OAKLAND, Calif.—City council declares intention to improve portions of Hampton Road, Estates Drive and Wood Drive, involving:

- (1) 10,982 cu. yds. excavation;
 - (2) 71 lin. ft. concrete curb;
 - (3) 68,710 sq. ft. concrete pavement;
 - (4) 4 storm water inlets (type A);
 - (5) 117 lin. ft. 12-in. conc. pipe conduit
 - (6) 74 lin. ft. 15-in. conc. pipe conduit
 - (7) 10 lin. ft. 8x24-in. corrug. iron and concrete culvert;
 - (8) 1 concrete handhole with cast iron cover;
 - (9) 29 cu. yds. concrete in retaining wall.
- Street Imp. Act 1913. City will pay one-half the cost of retaining wall and conduits and storm water inlets from General Fund. Hearing May 7. F. C. Merritt, city clerk. Walter N. Frickstad, city engineer.

NEVADA CITY, Nevada Co., Cal.—City trustees will call an election shortly to transfer the \$10,000 swimming pool bond funds, now in a local bank, to the street, water and sewer systems funds of the city. It is proposed to improve streets at a cost of \$8,000; extend water system at \$1,000 and sewer system, \$1,000. The bonds were originally voted to construct a swimming pool but due to failure to reach a decision on a site the project was abandoned.

SAN FRANCISCO.—Until April 15, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve west half of Ashton Ave. from point 329 ft. south from Grafton Ave. to a point 360 ft. south from Grafton Ave., involving:
 (1) 40 lin. ft. armored concrete curb;
 (2) 15 lin. ft. 6-in. V.C.P. side sewer;
 (3) 600 sq. ft. 6-in. class E conc. pave.
 Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

BERKELEY, Alameda Co., Cal.—J. S. Hannah, 263 Market St., San Francisco, at \$26,890 submitted lowest bid to Regents of the University of California for grading of the Geo. C. Edwards Fields on the Campus.

Following is a complete list of bids:

J. S. Hannah, S. F.	\$26,890
R. Reeves	33,900
J. Catucci, Oakland	39,297
Lee J. Immel, Oakland	39,886

Bids held under advisement.

SAN JOSE, Santa Clara Co., Cal.—A. J. Ralsch, Burrell Bldg., San Jose, at \$26,795 awarded contract by county supervisors to improve Page Rd. from San Francisco Road (state highway) to Arastradero Road in Supervisor District No. 5, involving 295,000 sq. ft. oil macadam pavement. Complete list of bids follows:

A. J. Ralsch	\$26,795
O. B. Freeman	27,989
C. W. Wood	28,000
Geo. French, Jr.	29,081
W. A. Dontanville	29,850
Granite Const. Co.	33,975
San Jose Paving Co.	39,748

SAN JOSE, Santa Clara Co., Cal.—Granite Const. Co., Watsonville, at \$6,610 awarded contract by county supervisors to improve Blossom Hill Rd. in Supervisor District No. 5. Project involves 1½ miles of graveling. Complete list of bids follows:

Granite Const. Co.	\$6,610
W. A. Dontanville	6,908
San Jose Excavating Co.	7,390
Tiffany-McReynolds & Tiffany	8,230
A. L. Connor	8,742
J. S. Baker	9,282
Harms Brothers	9,391
V. C. Tasse	10,312
R. L. Oakley	11,140
San Jose Paving Co.	12,493
A. J. Ralsch	12,980

STOCKTON, San Joaquin Co., Cal.—George French, Jr., Cherokee Inn, Stockton, at \$14,939.40 awarded contract by county supervisors to improve the Ripon Road in Road Dist. No. 1, 3.11 miles in length. Perlera & Reed, Stockton, only other bidders at \$15,718.10.

LOS ANGELES COUNTY, Cal.—C. M. Morgan Paving Co., Los Angeles, at \$399,220 submitted low bid April 8 to State Highway Commission to grade 5.0 miles between 4 miles north of La Canada and Colby Canyon. Complete list of bids follows:

Morgan Paving Co., L. A.	\$399,220
H. W. Rohl Co., L. A.	415,372
Van der Hellen and Pierson,	
Castaic	415,953
Macco Const. Co., Clearwater	421,258
M. S. Ross, L. A.	424,217
Geo. Follock Co., Sacramento	468,816
C. B. Willis & Son, L. A.	486,649
O. A. Lindberg, Stockton	497,650
Merritt, Chapman & Scott, San Pedro	697,276

SACRAMENTO COUNTY, Cal.—J. V. Galbraith, Petaluma, at \$14,399 submitted low bid April 8 to State Highway Commission to grade and pave with Portland cement concrete, 1.1 miles at Lytton Overhead Crossing, Clark and Henry Const. Co., Chaucery Bldg., San Francisco, only other bidder at \$15,239.

CLARK COUNTY, Nev.—As previously reported, bids will be received April 15, 3:30 P. M., by S. C. Durkee, state highway engineer, Carson City, Nevada, for furnishing asphaltic fuel oil, applying and mixing it with a crushed rock or crushed gravel surface on a portion of the State Highway system in Clark County from the California-Nevada State Line to Jean, a length of 12.62 miles. Project involves:

- (1) 333,107 gals. asphaltic fuel oil applied to roadway surface;
- (2) 12.62 miles mixing asphaltic fuel oil with crushed rock or crushed gravel surface;
- (3) 12.62 miles rebuild and finishing shoulders.

Note: The oil shall be delivered at the following railway sidings and in the quantities shown:
 Roach Siding, 191,355 gallons.
 Jean, 141,172 gallons.
 Average haul on entire contract, 3-307 miles.

Certified check 5% required with bid. Plans on file in office of the U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from the engineer on deposit of \$15, of which \$10 is returnable.

SAN MATEO COUNTY, Cal.—H. E. Casey, San Mateo, at \$30,225 submitted low bid April 8 to State Highway Commission to surface with crushed rock and screenings to be stockpiled on 6.6 miles between Rancho San Mateo and Half Moon Bay Road. Bear-White, Belmont, only other bidder at \$34,200.

ELKO COUNTY, Nevada.—As previously reported, bids will be received April 15, 3:00 P. M., by S. C. Durkee, state highway engineer, Carson City, Nevada, for grading, constructing structures, placing surfacing material and curbing asphalt, fuel oil, apron and mixing it with a crushed rock or crushed gravel surface between the South Elko County Line and Wendover, a length of 53.54 miles. Project involves:

- (1) 5600 cu. yds. roadway excav.
- (2) 2900 cu. yds. structure excav.
- (3) 5.90 miles prepare subgrade and shoulders;
- (4) 1 demolish headwalls;
- (5) 47.64 miles prepare shoulders;
- (6) 48,800 cu. yds. crushed rock or crushed gravel surf. in place;
- (7) 55 cu. yds. class A concrete;
- (8) 4 lin. ft. 18-in. corr. metal pipe in place;
- (9) 1282 lin. ft. 24-in. do;
- (10) 76 lin. ft. 30-in. do;
- (11) 148 lin. ft. 36-in. do;
- (12) 13 lin. ft. remove corr. metal pipe;
- (13) 480 lin. ft. remove and reset corr. metal pipe;
- (14) 516 cu. yds. cement rubble masonry in place;
- (15) 100 cu. yds. riprap in place;
- (16) 1,250,583 gals. asph. fuel oil applied to roadway surface;
- (17) 53.54 miles mixing asph. fuel oil with crushed rock or crushed gravel surface;
- (18) 53.54 miles rebuild and finishing shoulders.

Certified check \$5% required with bid. Plans on file in office of the U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from the engineer on deposit of \$15, of which \$10 is returnable.

ELKO COUNTY, Nevada.—As previously reported, bids will be received April 15, 2:00 P. M., by S. C. Durkee, state highway engineer, Carson City, Nevada, for grading, constructing structures and placing surfacing material between Death and Wells, a distance of 18.53 miles. Project involves:

- (1) 169,700 cu. yds. roadway excav.
- (2) 300 cu. yds. struc. excav.
- (3) 28,100 cu. yds. selected borrow excavation in place;
- (4) 276,930 yd. sta. overhaul;
- (5) 17.86 miles prepare subgrade and shoulders;
- (6) 9 demolish headwalls;
- (7) 0.60 mile prepare shoulders;
- (8) 58,630 cu. yds. crushed rock or crushed gravel surf. in place;
- (9) 850 cu. yds. crushed rock or crushed gravel in stockpile;
- (10) 319 cu. yds. class A concrete;
- (11) 112.5 cu. yds. class B concrete;
- (12) 1552 lin. ft. 18-in. corr. metal pipe in place;
- (13) 910 lin. ft. 24-in. do;
- (14) 140 lin. ft. 30-in. do;
- (15) 366 lin. ft. 36-in. do;
- (16) 416 lin. ft. 24-in. corr. metal pipe siphon in place;
- (17) 146 lin. ft. remove corr. metal pipe;
- (18) 58 corr. metal pipe culvert extensions;
- (19) 5744 lin. ft. standard timber guard rail in place;
- (20) 86 monuments in place;
- (21) 5 furnish and install posts for Federal Aid markers;
- (22) 18.53 miles finishing roadway;
- (23) 4656 lin. ft. remove timber guard rail;
- (24) 41,507 lin. ft. constructing fence;
- (25) 5526 lin. ft. remove and reconstruct fence;
- (26) 10,910 lin. ft. remove fence.

Certified check 5% required with bid. Plans on file in office of the U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from the engineer on deposit of \$15, of which \$10 is returnable.

REDWOOD CITY, San Mateo Co., Cal.—County Surveyor Jas. S. James

in a report to the county supervisors, estimates the cost of the proposed 19th Ave. extension in East San Mateo from the Bayshore Highway to Seal Creek at \$50,000. The project would involve a roadway 30-ft. wide, consisting of a rock base, 6-in. thick.

A preliminary survey to improve 1½ miles of Ralston Avenue, running to Skyline Blvd. west of Belmont, according to estimates submitted by County Surveyor James would cost \$30,000.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1684).

W-2205-S ENGINEER to set up a Complete plant for the galvanizing of sheets and to instruct permanent staff in the operation of the plant. Practical experience in the operation of sheet galvanizing machinery essential. Knowledge of Spanish an asset, but not a necessity. Apply only by letter, ocaton, Mexico.

W-2439-C-S (K-345) MINING ENGINEER with good placer experience, to take charge of operation in healthy section of Peru. Salary, living expenses and share in profit. Small investment desired. Apply by letter giving references. Headquarters, Peru.

W-2440-C-S (K-346) MINING ENGINEER with prospecting experience on gold both placer and quartz. Capable man with about \$25,000 could take over leases and operate on royalty basis in rich virgin territory now held by principal under concession from Peruvian Government. Healthy location. Apply by letter with references. Headquarters, Peru.

W-2511 OPERATING ENGINEER, preferably single, to operate steam and refrigeration plant, and be responsible for repairs and maintenance with little skilled labor, but plenty of common labor. Contract for one year or more. Salary depends on man. Apply by letter. Location, small community in Colombia, South American tropics, unsuitable for children.

W-2571-C-S (K-352) SALES MANAGER for large fertilizer company. Commercial experience in some Oriental market essential. Technical agricultural training desirable but not indispensable. Only highest type of man will be considered. Apply by letter giving complete record of previous employment particularly full details of all foreign experience, salaries received, age, education, nationality, references, etc. Location, China.

W-2572-C-S (K-353) AGRICULTURAL EXPERT for service with large fertilizer company. Must be a graduate of agricultural college or have had equivalent training. Apply by letter giving complete details of education, training and experiences, record of previous employment and salaries received, age, nationality, references, etc. Location, China.

A. S. Holmes, city building inspector of Oakland, reports the issuance of 276 building permits in March for construction aggregating an expenditure of \$967,545.

STATEMENT OF OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACT OF CONGRESS OF AUGUST 24, 1912,

OF BUILDING & ENGINEERING NEWS, published weekly at San Francisco, California, for April 1, 1931. State of California, City and County of San Francisco, ss.

Before me, a Notary Public in and for the state and county aforesaid, personally appeared J. I. Stark and R. J. Rath, who, having been duly sworn according to law, depose and says that they are the owners of the BUILDING & ENGINEERING NEWS, and that the following is, to the best of their knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, embodied in Section 411, Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are: Publisher, Stark-Rath Printing & Publishing Co., 547 Mission St., San Francisco.

Editor, J. P. Farrell, 1253 39th Ave., San Francisco.
Managing Editor, J. P. Farrell, 1268 29th Ave., San Francisco.

Business Managers, R. J. Rath, 786 31st Ave., San Francisco, and J. I. Stark, 778 30th Ave., San Francisco.

2. That the owners are: Stark-Rath Printing & Publishing Co., 547 Mission St., San Francisco.
R. J. Stark, 786 31st Ave., San Francisco.

J. I. Stark, 778 30th Ave., San Francisco.
A. R. Miller, 869 Trestle Glen Road, Oakland.

3. That the known bondholders, mortgages, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or securities are: none.

4. That the two paragraphs next above giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by them.

STARK-RATH PTG. & PUB. CO., Publishers
J. I. STARK,
R. J. RATH.

Sworn to and subscribed before me this 31st day of March, 1931.

(SEAL) CHALMER MUNDAY,
Notary Public in and for the City and County of San Francisco, State of California.

(My commission expires Oct. 25, 1933)

Contracts Awarded Liens, Acceptances, Etc

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
477	Bleacher	Owner	2000
478	Duggin	Owner	1500
479	Murphy	Jones	4000
480	Schessinger	Barrett	10000
481	Eredend	Taylor	3000
482	Halsen	Owner	8000
483	De Maria	Owner	7000
484	Johnsen	Owner	1500
485	Borg	Delucchi	3300
486	Santistenan	Byrne	3000
487	Meyer	Jacks	2000
488	Sullivan	Owner	16000
489	Sullivan	Owner	36000
490	Johnson	Owner	3500
491	McDonald	Owner	1000
492	Horn	Owner	10500
493	Costello	Owner	17500
494	Bradley	Wagner	12000
495	Maxwell	Andersen	5000
496	Martin	Owner	1500
497	Anderson	Owner	3500
498	Johnson	Owner	16000
499	Bartee	Owner	3500
500	Costello	Owner	10500
501	Christensen	Owner	8000
502	Doelger	Owner	5000
503	Doelger	Owner	5000
504	Doelger	Owner	5000
505	Janssen	Owner	1000
506	Sandoval	Kavanaugh	3500
507	Samuelson	Owner	14800
508	Zimmerman	Forsman	3500
509	Andersen	Owner	4000
510	allagy	Owner	3000
511	MacDonald	Owner	8000
512	Peterson	Owner	7000

DWELLING
(477) N HALE 150 W Merrill; one-story and basement frame dwelling.
Owner—Mr. and Mrs. W. C. Bleacher, 242 Hale St.
Architect—Not Given. \$3000

ALTERATIONS
(478) 3434 17th St.; alterations to present building for undertaking establishment.
Owner—W. Duggin, 525 10th Ave.
Plans by Owner. \$1500

ALTERATIONS
(479) 2245 SACRAMENTO ST.; alterations to dwelling.
Owner—Mrs. F. Murphy, 2245 Sacramento St.
Architect—Not Given.
Contractor—T. M. Jones, 243 El Dorado St., Monterey. \$4000

ALTERATIONS
(480) PACIFIC ST. and Trenton Pl.; alterations for super service station.
Owner—A. E. Schessinger and S. & G. Gump Realty Co., 246 Post St.
Plans by Owner.
Contractor—Barrett & Hip, 913 Harrison St. \$10,000

ALTERATIONS
(481) 2301 BROADWAY; alterations to residence.
Owner—V. E. Eredend, % Contractor
Architect—Not Given.
Contractor—Taylor & Jackson, 290 Tehama St. \$3000

DWELLINGS
(482) E 14th AVE, 225 N Taraval St.; two 1-story and basement frame dwellings.

Owner—A. Halsen, 2427 25th Ave.
Plans by D. E. Jaekle, Call Bldg.
each \$4000

SERVICE BLDGS
(483) CORE COLUMBUS AVE., LOMBARD and Mason Sts. One-story Class A service station buildings.
Owner—J. B. De Maria, % Italo Petroleum Corp. of America.
Plans by M. J. Lyons, 916 Kearny St., San Francisco. \$7000

ALTERATIONS
(484) NO. 3615 MISSION ST. Alterations to flats.
Owner—L. Johnsen, 729 Occidental Ave., San Francisco.
Architect—Not Given. \$1500

DWELLING
(485) N NEWCOMB 250 W Newhall. One-story and basement frame dwelling.
Owner—A. Borg, 2011 Oakdale St., San Francisco.
Architect—Not Given.
Contractor—D. Delucchi & Son, 3007 San Bruno Ave., E. F. \$3900

ALTERATIONS
(486) NO. 1078 FLORIDA ST. Alterations and additions to flats.
Owner—J. Santistenan, 1078 Florida St., San Francisco.
Architect—Not Given.
Contractor—W. Byrne, 1467A Dolores St., San Francisco. \$3000

ALTERATIONS
(487) NO. 50 SUTTER ST. Alterations to office.
Owner—Milton Meyer & Co., Ltd., 308 Kearny St., San Francisco.
Architect—Not Given.
Contractor—Jacks & Irvine, 74 New Montgomery St., S. F. \$2000

DWELLINGS
(488) SE CAYUGA 1050 SW Rousseau; four 1-story and basement frame dwellings.
Owner and Builder—T. J. Sullivan, 1967 Ocean Avenue.
Architect—Not Given. each \$4000

DWELLINGS
(489) NW ALEMANY 550 SW Rousseau; nine 1-story and basement frame dwellings.
Owner and Builder—T. J. Sullivan, 1967 Ocean Avenue.
Architect—Not Given. each \$4000

DWELLING
(490) E 21st AVE, 300 S Noriega; 1-story and basement frame dwelling.

Owner—P. P. Johnson, 225 Linden Way.
Architect—Not Given. \$3000

REPAIRS
(491) 644 ELIZABETH ST.; repairs to fire damage.
Owner—Mrs. McDonald, 644 Elizabeth St.
Architect—Not Given. \$500

DWELLINGS
(492) W 34th AVE, 150 S Ulloa St.; one-story and basement frame dwellings.
Owner & Builder—J. Horn, 5044 Mission Street.
Architect—Not Given. each \$900

DWELLINGS
(493) E 28th AVE, 224 S Anza; repairs to one-story and basement frame dwellings.
Owner and Builder—M. Costello, 2134 34th Avenue.
Architect—Not Given. each \$300

ADDITION
(494) 2716 PACIFIC AVE.; addition to private garage.
Owner—F. W. Bradley, 2716 Pacific Avenue.
Architect—F. H. Meyer, Underwood Building.
Contractor—Geo. Wagner, 131 Sch Park. \$1200

DWELLING
(495) SE CASTENADA 113 SW N Marcos; two-story and basement frame dwelling.
Owner—W. Maxwell.
Plans by Mr. Andersen.
Contractor—C. Andersen, 150 Granite Way. \$3000

DWELLING
(496) W 40th AVE, 100 S Lawton; one-story frame dwelling.
Owner—Mrs. M. Maiten, Gilroy.
Architect—Not Given. \$1000

DWELLING
(497) W 16th AVE, 300 S Quintana; one-story and basement frame dwelling.
Owner and Builder—E. A. Anders, 1177 De Haro St.
Plans by owner. \$3000

DWELLINGS
(498) W 17th AVE, 25 S Vicente; one-story and basement frame dwellings.
Owner and Builder—S. F. Johns, 3915 Fulton St.
Architect—C. F. Strothoff, 2274 10th Street.
Architect—Not Given. each \$4000

DWELLING
(499) NW BRUNSWICK 153 N Irving; 1-story and basement frame dwelling.
Owner—H. B. Barbee, 225 College Ave.
Plans by Owner. \$3000

DWELLINGS
(500) E23rd AVE, 143 S Noriega; one-story and basement frame dwellings.
Owner—L. Costello, 382 27th Ave.
Architect—Not Given. each \$3500

DWELLINGS
(501) W 21st AVE, 250 N Judah St.; two 1-story and basement frame dwellings.
Owner—H. Christensen, 1422 27th Ave.
Plans by Owner. each \$4000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

DWELLING
(502) NE 22nd AVE. and Lawton; 1-story and basement frame dwelling.
Owner—H. Doelger, 300 Judah St.
Architect—Not Given. \$5000

DWELLING
(503) SE 32nd AVE. and Kirkham; 1-story and basement frame dwelling.
Owner—H. Doelger, 300 Judah St.
Architect—Not Given. \$5000

DWELLING
(504) NW 21st AVE. and Lawton; 1-story and basement frame dwelling.
Owner—H. Doelger, 300 Judah St.
Architect—Not Given. \$5000

ADDITION
(505) 3320 BRODERICK ST.; addition of airplane room to dwelling.
Owner—E. A. Janssen, 811 Hearst Bldg.
Plans by J. Gaba, 811 Hearst Bldg. \$1000

DWELLING
(506) W 11th AVE. 100 S Moraga; one-story and basement frame dwelling.
Owner—Mary Sandova, 257 Valley St.
Plans by Contractor.
Contractor—D. S. Kavanaugh, 433 California St. \$3500

DWELLINGS
(507) SW COR. ALPHA and Teddy; four 1-story and basement frame dwellings.
Owner—A. M. Samuelson, 301 Geneva Avenue.
Plans by W. R. Weisheimer, 9 24 Prague St. each \$3700

DWELLING
(508) S SILVER 90 E Gambler; one-story and basement frame dwelling.
Owner—E. Zimmerman.
Plans by M. Stahl, 430 Ellsworth St.
Contractor—E. Forsman and M. Stahl. \$3500

DWELLING
(509) E 24th AVE. 245 N Kirkham; one-story and basement frame dwelling.
Owner and Builder—C. Andersen, 146 Granville Way.
Architect—Not Given. \$4000

DWELLING
(510) E 16th AVE. 25 N Wawona; one-story and basement frame dwelling.
Owner—M. A. Callagy, 2674 16th Ave.
Architect—Not Given. \$3000

APARTMENTS
(511) W 50th AVE. 175 N Taraval; two-story and basement frame (4) apartments.
Owner and Builder—D. B. Macdonald, 433 California St.
Plans by Owner. \$8000

DWELLINGS
(512) S STAPLES 200 W Foerster; two 1-story and basement frame dwellings.
Owner and Builder—A. R. Peterson, 1435 Church St.
Architect—Not Given. \$3500

St. N 69-2 1/2, W 133; all work for additions and alterations to one-story brick building.
Owner—The Robert White Co., premises.
Architect—Crim, Resing & McGulness, 488 Pine St.
Contractor—Joel Johnson & Son, 1614 Church St.
Filed April 2, '31. Dated Apr 1, '31.
1st of each month.....25%
Usual 35 days.....25%
TOTAL COST, \$5748
Bond, \$2875. Sureties, Wm. Martin, A. Arras. Limit, 40 days. Plans and Spec. filed.

DWELLINGS
(63) LOTS 2 and 3 BLK 2956A Sub 7 Miraloma Park; all work on two 1-story frame dwellings.
Owner—The McCarthy Co., 46 Kearny. Architect—Not Given.
Contractor—Meyer Bros., 729 Portola Drive.
Filed April 6, '31. Dated Mar. 31, '31.
Side and roof sheathing up.....\$1800
Brown coated.....1800
Completed and accepted.....1800
Usual 35 days.....1800
TOTAL COST, \$7200
Limit, 90 days. Plans and Spec. filed.

DWELLING
(64) LOT 1 BLK 2956A Sub 7, Miraloma Park; all work on one-story frame dwelling.
Owner—The McCarthy Co., 46 Kearny. Architect—Not Given.
Contractor—Meyer Bros., 729 Portola Drive.
Filed April 6, '31. Dated Mar. 20, '31.
Side and roof sheathing on.....\$1100
Brown coated.....1100
Completed and accepted.....1100
Usual 35 days.....1100
TOTAL COST, \$4400
Limit, 90 days. Plans and Spec. filed.

PAVING
(65) IN SAN FRANCISCO. All work for paving team track driveway and installing redwood header.
Owner—Southern Pacific Co., 65 Market St., San Francisco.
Architect—Not Given.
Contractor—A. C. Raisch, 46 Kearny St., San Francisco.
Filed April 7, '31. Dated March 30, '31.
At close of each month.....75%
Usual 35 days.....25%
TOTAL COST, .05c per sq. ft. of Bituminous macadam; .17c per lineal ft. of redwood header.
Bond, \$1197.30. Surety, United States Guaranty Co. Limit, 15 days. Forfeit, none. Plans and specifications filed.

DRILLING, ETC.
(66) LOT ADJACENT TO 65 Market St., Drilling, sinking and casing a well to approximately 160 feet.
Owner—Southern Pacific Co., 65 Market St., San Francisco.
Architect—Not Given.
Contractor—J. B. Rogers, 110 Sutter St., San Francisco.
Filed April 7, '31. Dated Mar. 23, '31.
At close of each month.....75%
Usual 35 days.....25%
TOTAL COST, \$5.45 per ft.
Bond, \$872. Surety, U. S. Guarantee Co. Limit, 30 days. Forfeit, none. Specifications only filed.

April 3, 1931—S CHESTNUT 137-6 E Fillmore E 55 x S 137-6. John E and Angelina Baegalupi to C R Jedlicka
April 3, 1931—W 30th AVE 100 N Taraval W 30 x N 25 Elna N Berg to whom it may concern.....April 2, 1931
April 3, 1931—LOTS 2, 3 and 4 BLK 2948A Sub No 5, Miraloma Park. Meyer Bros to whom it may concern.....April 1931
April 2, 1931—LOT 74 BLK 3011 Monterey Heights. Meyer Bros to whom it may concern.....Mar 26, 1931
April 2, 1931—SE SAN ALEJO AVE and SW line lot 6 blk 3263 map blk 3260, 3263, 3273, 3274 Monterey Heights NE 30 NE 15-708 SE 60 SW m or 1 NW 60-533. A S and A Olsen Jr to E L Stoneson.....March 18, 1931
April 2, 1931—S VALLEJO 68-9 E Mason E 34-9 x S 137-6 E Franceschi to R Polietti.....April 2, 1931
April 2, 1931—E 19th AVE 31-5 S Santiago St S 25 x 70; E 19th Ave 225 S Taraval St S 25 x 70. F M Stieh to whom it may concern.....April 1, 1931
April 1, 1931—W 33rd AVE 30-5 S Judah S 25 x W 120. John E McCarthy to whom it may concern.....March 30, 1931
April 1, 1931—LOTS 29 and 32 Blk 8 Map Sunnyside. Castle Bldg Co to Henry Horn.....March 25 1931
April 1, 1931—LOTS 2 and 10 Blk 3271 Map Mt Davidson Manor. Gordon W Merris to whom it may concern.....April 1, 1931
April 1, 1931—W VERMONT 175 S 23rd 25x100. F and I Amatore to whom it may concern.....Mar 30, 1931
March 31, 1931—S 19th AVE 150 14th Ave W 25 x S 150. Duncan B MacDonald to whom it may concern.....March 28, 1931
April 6, 1931—W TWENTY-FIFTH AVE 125 S Rivera S 75x120. Herman Christensen to whom it may concern.....April 6, 1931
April 4, 1931—SW KIRKHAM AND 31st Ave S 25x90. Henry Doelger to whom it may concern.....April 1, 1931
April 4, 1931—E TWENTY-SEVEN Ave 200 S Taraval 25x120. N W Anderson to whom it may concern.....April 3, 1931
April 3, 1931—SW MONTEREY Blvd dist SE 20 from NW line lot 5 Blk 3263 Map Blks 3263, 3273 and 3274, Monterey Heights SE 50 SW 100 m or 1 NW 45.667 NE 100. A and A S Eberspacher to E L Stoneson.....March 18, 1931
April 7, 1931—NO. 1251 JACKSON. L Harris to Geo H Hansel.....April 7, 1931
April 7, 1931—E LOEHR 25 N Vista-tacion 47x110. Henry and Anna Nikusk to Henry Horn.....March 17, 1931
April 7, 1931—LOT 2 Blk 2 Francis Wood. I H and H A Granicher to H Pfenhausen—April 6, '31
April 7, 1931—NO. 700 DARIEN Way cor. Westgate Drive. Thos J Sullivan to whom it may concern.....April 6, 1931
April 7, 1931—LOT 13 and Pts 12 Blk 6965A Sub No. 1, Geneva Terraces desc; SW Seneca Ave dist 20 SE from NW line sd lot 12 SE 39 SW 116.094 NW 21.738 NE 105.765 to beg. Henry and Hazel Stoneson to whom it may concern.....March 31, 1931
April 7, 1931—LOT 4 Pts 10 15 Blk 6965A Sub No. 1, Geneva Terraces desc; SW Seneca Ave and NW line sd lot 14 SE 31.234 SW 124.873 NE 27.598 NE 116.094. Henry and Hazel Stoneson to whom it may concern.....March 31, 1931

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
62	White	Johnson	5748
63	McCarthy	Meyer	7200
64	Same	Meyer	4400
65	S. P.	Raisch	
66	S. P.	Rogers	

ADDITIONS & ALTERATIONS

(62) W FILLMORE ST. 55 N Geary

COMPLETION NOTICES

San Francisco County

April 3, 1931—W ANDOVER 78-1 1/2 S Newman S 26-0% W 114-2 1/2 N 26 E 112-11 1/2 blk 11 Pairs Sub Holly Park Tract. Hattie M Cantrowth to whom it may concern.....March 28, 1931

April 7, 1931—PTN LOTS 15 AND 16
 Blk 6965A Sub. No. 1. Geneva Terraces desc'd: SW Seneca Ave dist 5.8 SE from NW line sd lot 16 SE 34.8 EW 139.638 NW 23.472 NE 124.873 to beg. Henry and Hazel Stoneson to whom it may concern.....March 31, 1931

April 7, 1931—PTN LOTS 11 AND 12
 Blk 6965A Sub. No. 1. Geneva Terraces desc'd: SW Seneca Ave dist 15 SE from NW line sd lot 11 S7 30 SW 105.765 NW 3.278 NE 97.286 to beg. Henry and Hazel Stoneson to whom it may concern.....March 31, 1931

April 7, 1931—LOT 52 BLK 6965A Sub. No. 1. Geneva Terraces. Henry & Hazel Stoneson to whom it may concern.....March 31, 1931

LIENS FILED

San Francisco County

Recorded Accepted
 April 4, 1931—SW SAN BRUNO Ave 134 WY Burrows 41X30. Central Hardware & Glass Co vs B Stone.....\$230.83

April 3, 1931—W SAN JOSE AVE 40 S 25th St lot 2 blk 6532 Assessors map 30x120. Wm H Dewep vs C B Summers.....\$1250

April 3, 1931—SE CALIFORNIA and Joyce Sts S 77-6 E 66 N 8-9 N 68-9 W 80. Golden State Flooring Corp vs Ideal Floor Co and Marian Realty Co, Ltd.....\$235.87

April 2, 1931—E 26th Ave 150 N Taraval W 25 x E 120. Empire Planing Mill vs H S and E Klingspor.....\$737.30

April 1, 1931—S 19th 150 W Guerrero St W 25 x S 123. J Cassarotto \$100.60; Roy K Welsh, \$180; K Haglund, \$207. vs F and Mrs M Figiel and Ash & Hand.....

April 1, 1931—S 19th 150 W Guerrero W 25 x S 128. Bowman Plbg Supply Co vs F Figiel and Ash & Hand.....\$99.96

April 1, 1931—COMG 101-6 from NE 22nd and Douglas S 25 x W 90. Philip Gau & Son vs Mr and Mrs J Gould.....\$150

April 1, 1931—S 19th 150 W Guerrero W 25 x 128. G B Nelson vs M Figiel and Ash & Hand.....\$437.05

RELEASE OF LIENS

San Francisco County

Recorded Amount
 Recorded Amount
 April 7, 1931—E MASONIC AVE 59 S Waller S 27x E 105. J A Mohr & Son, Inc to M E Lievre
 April 7, 1931—W LYON 35 N Clay N 100-4 1/2 W 137-6 S 35-4 1/2 E 27-6 S 65 E 110. G B Jackson & Son and D Zelinsky & Sons, Inc to H O Linderman and George and Edna Lievre
 April 6, 1931—W LYON 35 N Clay N 33-5 1/2 x W 110; W Lyon 68-5 1/2 N Clay N 33-5 1/2 x W 110; W Lyon 101.11 N Clay N 33-5 1/2 W 137-6 S 35-4 1/2 E 27-6 N 1.11 E 110. E Sugarman to H A Lindeman and Geo and Edna Lievre
 April 6, 1931—W LYON 35 N Clay N 100-4 1/2 W 137-6 S 35-4 1/2 E 27-6 S 65 E 110. John J Deluechi; Pacific Mfg Co; Scott Co, Inc; Andrew Thorsen, Western Hardware Floor Co; W P Fuller & Co; G Jacobsen; John J Deluechi to George Lievre
 April 3, 1931—LOTS 30, 31 and 32 blk 143 Brown Estate Co's Sub ptn University Md. National Lighting Fixture & Supply Co to whom it may concern.....

BUILDING PERMITS

ALAMEDA COUNTY

No. Owner	Contractor	Amt.
378 Montgomery	Owner	1000
379 Allen	De Velbiss	1175
380 Kamenzind	Lyon	7000
381 Monez	Owner	4600
382 Mosby	Mathayer	4000
383 Warbington	Owner	5000
384 Grubb	Owner	3250
385 Stanley	Owner	4500
386 Bay	Owner	1500
387 Embroden	Owner	2800
388 Converse	Owner	4000
389 Dull	Dull	3000
390 Smith	Converse	4000
391 Hubbard	Owner	3800
392 Babros	Owner	3000
393 Deadrick	Owner	4000
394 Cola	Owner	2400
395 Feel	Owner	7000
396 MacGregor	Owner	3250
397 Silver	Owner	2000
398 Pederson	Owner	3000
399 Headrick	Owner	3500
400 Cola	Owner	2400
401 Stark	McWethy	5000
402 McBride	Owner	7000
403 Quinn	Anderson	5500
404 Flening	Owner	3750
405 Johnston	Falk	7000
406 Cimocini	Maretti	3000
407 Ellam	Owner	3150
408 Fox Bros	Owner	2000
409 Cornwall	Van Ness	3000
410 Hass	Larsen	7500

(Correction in Location)
 DWELLING
 (377) 717 SPRUCE ST., BERKELEY two-story 6-room 1-family frame and stucco dwelling and garage. Owner—Paul F. Bunker. Plans by J. V. Short, 1386 Euclid Ave., Berkeley.
 Contractor—J. V. Short, 1386 Euclid Ave., Berkeley. \$5000

ALTERATIONS
 (375) 438-40 19th STREET, OAKLAND; alterations. Owner & Builder—Montgomery Ward Co., E 14th and 23rd Ave., Oakland. Architect—Not Given. \$1000

WAREHOUSE
 (379) 767 85th AVE., OAKLAND; 1-story warehouse. Owner—Gordon Allen, Ltd 767 85th Ave., Oakland. Architect—Not Given. Contractor—C. Dudley DeVelbiss, 354 Hobart St., Oakland. \$1175

SERVICE STATION
 (380) 1850 SOLANO AVE., BERKELEY; one-story 4-room super service station, class C. Owner — W. J. Kamenzind, 2716 6th Ave., Sacramento. Plans by W. C. Lyon. Contractor—W. C. Lyon, 354 Hobart St., Oakland. \$7000

DWELLING
 (381) 4236 EDGE DRIVE OAKLAND; one-story 6-room dwelling. Owner and Builder—A. H. Monez, 4330 Arden Place, Oakland. Architect—Not Given. \$4000

DWELLING
 (382) N MELDON AVE. 100 E Storer St., OAKLAND; two-story six-room dwelling. Owner—C. Mosby, 3178 Birdsall Ave., Oakland. Architect—Not Given. Contractor—B. Mathayer, 3178 Birdsall Ave., Oakland. \$4000

DWELLING
 (383) N MELDON 400 W Birdsall; one-story 6-room dwelling. Owner—G. F. Warbington, 3178 Birdsall Ave., Oakland. Architect—Not Given.

Contractor—L. B. Mathayer, 3178 Birdsall Ave., Oakland. \$10

DWELLING
 (384) 1830 108th AVE., OAKLAND one-story 1-room dwelling and story garage. Owner and Builder—Jas. B. Grubb, 1815 Bred Ave., Oakland. Architect—Not Given. \$321

DWELLING
 (385) W ASPINWALL ROAD 285 Gouldin Road, OAKLAND; or story 6-room dwelling. Owner and Builder—H. A. Stanh 2317 Park Blvd., Oakland. Architect—Not Given. \$45

ALTERATIONS
 (386) 722 LINDEN ST., OAKLAND alterations. Owner and Builder—Bay City Bap Union, 228 McAllister Street, S. Francisco. Architect—Not Given. \$11

DWELLING
 (387) 1 REDDING PLACE., OAKLAND; one-story 7-room dwelling. Owner & Builder—R. Embroden, 26 Atbey St., Oakland. Architect—Not Given. \$29

DWELLING
 (388) 2370 MARIN AVE., BERKELEY; one-story 6-room 1-family frame dwelling and garage. Owner—E. R. Converse, 1088 53rd S Oakland. Architect—Not Given. \$40

DWELLING
 (389) 1448 ORDVAY AVE., BERKELEY; one-story 6-room 1-family frame dwelling. Owner—C. O. Dull, 2017 Woolsey St., Berkeley. Architect—Not Given. Contractor—Dull & Bredehoff, 201 Woolsey St., Berkeley. \$30

DWELLING
 (390) 910 CRAGMONT AVE., BERKELEY; one-story 6-room 1-family frame dwelling and garage. Owner—J. Smith, 1851 Yosemite Av Berkeley. Architect—Not Given. Contractor—E. R. Converse, 1088 53rd St., Oakland. \$40

RESIDENCE
 (391) NO. 550 SAN LOUIS ROAD BERKELEY. Two-story 6-room 1-family frame residence and garage. Owner—J. H. Hubbard, 2632 Haste St Berkeley. Architect—Not Given. \$38

DWELLING
 (392) NO. 628 POMONA AVE., ALBANY. Five-room dwelling. Owner—E. J. Babros, 853 Ean Clark Ave., Albany. Architect—Not Given. \$300

DWELLING
 (393) NO. 602 SANTA FE AVE., ALBANY. Six-room dwelling. Owner—T. A. Deadrick, 2523 Libert Ave., El Cerrito. Architect—Not Given. \$400

DWELLING
 (394) NO. 738 TALBOT AVE., ALBANY. Five-room dwelling. Owner—P. Cola, 720 Evelyn Ave., Albany. Architect—Not Given. \$240

DWELLING
 (395) NO. 1159 SANTA FE AVE ALBANY. Five-room dwelling. Owner—M. A. Peel, 10 Oakvale Ave Berkeley. Architect—Not Given. \$300

WELLING
 (6) NO. 1263 PORTLAND AVE.,
ALBANY. Six-room dwelling.
 Owner—M. MacGregor, 470 13th St.
 Oakland.
 Architect—Not Given. \$3250

WELLING
 (7) NO. 634 TALBOT AVE., **AL-**
BANY. Five-room dwelling.
 Owner—H. W. Silver, 6131 Panama
 Ave., Richmond Annex.
 Architect—Not Given. \$2000

WELLING
 (8) NO. 1035 SANTA FE AVE.,
ALBANY. Five-room dwelling.
 Owner—Thorwald Pederson, 2145 Grant
 St., Berkeley.
 Architect—Not Given. \$3000

WELLING
 (9) NO. 523 SANTA FE AVE., **AL-**
BANY. Six-room dwelling.
 Owner—H. G. Headrick, 1054 Masonic
 Ave., Albany.
 Architect—Not Given. \$3500

WELLING
 (10) NO. 740 TALBOT AVE., **AL-**
BANY. Five-room dwelling.
 Owner—P. Cola, 720 Evelyn Ave., Al-
 bany.
 Architect—Not Given. \$2400

WELLING
 (11) SE HAWTHORNE & TEL-
 graph Ave., **OAKLAND.** One-story
 store building.
 Owner—G. J. W. Stark, 374 17th St.,
 Oakland.
 Architect—Not Given.
 Contractor—L. R. McWethy, 374 17th
 St., Oakland. \$5000

EVIDENCE
 (12) NO. 955 SANTA BARBARA
 Road, **BERKELEY.** Two-story 8
 room 1-family frame residence and
 garage.
 Owner—R. C. McBride Jr., 2326 Le
 Conte Ave., Berkeley.
 Architect—Not Given. \$7000

WELLING
 (13) NO. 2825 LINCOLN AVE., **ALA-**
MEDA. Two-story 6-room frame
 and stucco dwelling.
 Owner—J. A. Quinn, Liberty Ave.,
 Alameda.
 Architect—Walter H. Anderson, 1014
 Doris Court, Alameda.
 Contractor—Walter H. Anderson, 1014
 Doris Court, Alameda. \$5800

WELLING
 (14) W 25th AVE. 180 NE 28th St.,
OAKLAND; one-story five-room
 dwelling.
 Owner—Builder—John Fleming,
 4261 Suter St., Oakland.
 Architect—Not Given. \$3750

WELLING
 (15) NO. 974 ARBOR DRIVE, **SAN**
LEANDRO. One-story six-room
 dwelling.
 Owner—R. B. Johnston, 782 Bridge
 Road, San Leandro.
 Architect—Not Given.
 Contractor—Chas. W. Falk, 1520 E-
 38th St., Oakland. \$7000

EVIDENCE
 (16) NO. 1201 GILMAN ST., **BER-**
KELEY. One-story 5-room 1-
 family frame residence and gar-
 age.
 Owner—A. Cimoncini, 1207 4th St.,
 Berkeley.
 Architect—Not Given.
 Contractor—Charles Maretti, 1201
 Stannage St., Berkeley. \$3900

EVIDENCE
 (17) NO. 1345 SANTA FE AVE.,
BERKELEY. One-story 5-room 1
 family frame residence and garage
 Owner—Grover Ellam, 1409 Santa Fe
 Ave., Berkeley.
 Architect—Not Given. \$3150

RESIDENCE
 (108) NO. 1670 UNIVERSITY AVE.,
BERKELEY. One-story 3-room 1-
 family frame residence.
 Owner—K. T. Fox, 1484 University
 Ave., Berkeley.
 Architect—Fox Bros.
 Contractor—Fox Bros. \$2000

DWELLING
 (109) N WISCONSIN ST. 115 E 35th
 Ave., **OAKLAND;** 1-story 4-room
 dwelling.
 Owner—W. F. Cornwall.
 Architect—Not Given.
 Contractor—L. E. Van Ness, 4920 Park
 Blvd., Oakland. \$2000

DWELLING
 (110) NW COR. GROSVENOR Place
 and Snnnyhills Road, **OAKLAND;**
 two-story 10-room dwelling.
 Owner—Myrtle H. Hass.
 Architect—Kent & Hass, Underwood
 Bldg., San Francisco.
 Contractor—Larsen and Larsen, 5 4 4
 Russ Bldg., San Francisco. \$7500

BUILDING CONTRACTS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
62	University	General	3036
63	Same	Liberty	326
64	Same	Herrick	1464
65	Same	Superior	276
66	Same	Lindahl	1825
67	Kamenzind	Lyons	7500
68	Trayner	Cederborg	

ROOF
 (62) LE CONTE and Scenic Avenue,
 Berkeley; composition roof, asbes-
 tos shingle and slate roofing for
 church building.
 Owner—University Christian Church
 of Berkeley.
 Architect—W. H. Ratcliff, Jr., Mer-
 cantile Trust Bldg., Berkeley.
 Contractor—General Roofing Company
 (Harry Hennings), 3985 Beach St.,
 Oakland.
 Filed Apr. 4, '31. Dated Mar. 27, '31.
 First of each month.....75%
 Usual 35 days.....25%
 TOTAL COST, \$3036
 Bond, \$3036. Sureties, Aetna Casualty
 & Surety Co. Limit, without delay.
 Plans and Spec. filed.

(63) MISCELLANEOUS IRON WORK
 on above.
 Contractor—Liberty Ornamental Iron
 & Wire Works, 21st and Filbert
 Sts., Oakland.
 Filed April 4, '31. Dated Feb. 24, '31.
 Payments not given.
 TOTAL COST, \$326
 Bond, \$326.

(64) MISCELLANEOUS IRON WORK
 on above.
 Contractor—Herrick Iron Works, 18th
 and Campbell Sts., Oakland.
 Filed April 4, '31. Dated Feb. 24, '31.
 Payments not given.
 TOTAL COST, \$1464
 Bond, \$1464.

(65) FURNISHING and installing Tile
 on above.
 Contractor—Superior Tile & Products
 Co., 3743 Broadway, Oakland.
 Filed April 4, '31. Dated Feb. 24, '31.
 Payments not given.
 TOTAL COST, \$276
 Bond, \$276. Sureties, Continental Cas-
 uality Company.

(66) PAINTING on above.
 Contractor—V. Lindahl & G. E. Hur-
 tig, Berkeley.
 Filed April 4, '31. Dated March 12, '31.
 Payments not given.
 TOTAL COST, \$1825
 Bond, \$1825. Sureties, Aetna Casualty
 & Surety Co.

SERVICE STATION
 (67) LOTS 26, 27 and 28 BLOCK 5,
 Northbrae, Berkeley (Solano and
 Colma Sts.); general construction
 on super-service station bldg.
 Owner—W. J. Kamenzind.
 Architect—W. E. Lyons, 354 Hobart
 St., Oakland.
 Contractor—W. E. Lyons, 354 Hobart
 St., Oakland.
 Filed April 7, '31. Dated Mar. 31, '31.
 When roof sheathing in place.....\$1875
 When brown coated.....1875
 When completion is placed.....1875
 Usual 35 days.....1875
 TOTAL COST, \$7500
 Bond, \$7500. Sureties, Fidelity & De-
 posit Co. Limit, 45 days. Plans and
 Spec. filed.

RESIDENCE
 (68) LOT 89 and N 50 feet Lot 88,
 Crocker Tract, Piedmont; general
 construction on 2-story and base-
 ment frame residence and garage.
 Owner—Gerald B. & Marian P. Tray-
 ner, 329 Romona, Piedmont.
 Architect—Albert Farr and J. Francis
 Ward, 68 Post St., San Francisco.
 Contractor—A. Cederborg, 1455 Excel-
 sior Blvd., Oakland.
 Filed April 8, '31. Dated April 6, '31.
 Progress payments.....75%
 Usual 35 days.....25%
 TOTAL COST not to exceed \$42,947,
 plus \$2028 to contractor for ser-
 vices.
 Forfeit, \$10 per day. Limit, 140 days.
 Plans and Spec. filed.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded Accepted
 March 30, 1931—4279 ATLAS AVE.,
 Oakland. Andw Fleming to whom
 it may concern.....March 30, 1931
 March 30, 1931—NW C STREET &
 Grand St. Hayward. Poultry Pro-
 ducers of Central California to C S
 Schwartz.....March 20, 1931
 April 7, 1931—AGRICULTURE Hall
 and Hilgard Hall, Campus of the
 University of California, Berkeley.
 The Regents of the University of
 California to Pacific Mfg. Co.....April 1, 1931
 Feb 7, 1931—6556 ESTATES DRIVE,
 Oakland. W A Netherby to whom
 it may concern.....April 3, 1931
 April 4, 1931—LOT 16 BLK 3, Lake-
 shore Highlands, Oakland. Alton

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
 490 GEARY STREET

Phone FRanklin 9400 San Francisco

R Lapham to whom it may concern.....	April 3, 1931
April 6, 1931—NO. 3935 FOREST-hill Ave., Oakland. John Fleming to whom it may concern.....	April 6, 1931
April 6, 1931—PTN LOT 7 BLK B, Revised Map of Oak Tree Farm Tract, Oakland. Frank Avellar to Frederick S Taylor.....	April 6, 1931
April 4, 1931—N BEECH, N 1148 W Woodland Ave., San Leandro. H F Brunner to whom it may concern.....	April 2, 1931
April 3, 1931—LOT 6 and ptn lots 5 and 7 blk 20, map No 8 of Regents Park, Albany. Joe Vila to Self.....	April 2, 1931
April 1, 1931—297 TENTH ST and 938 Harrison St, Oakland. Tyre Bros Glass & Paint Co to Wilbur C Cone.....	March 28, 1931
April 2, 1931—NW LINE CLAREMONT Ave 170 ft SW of Miranda St, Oakland. Lewis Graham to whom it may concern.....	April 1, 1931
April 2, 1931—PTN LOT A, College Court, Oakland. C W Short to whom it may concern.....	Mar 30, 1931
March 31, 1931—MISSION SAN JOSE, Alameda. St Mary's Orphanage to County Septic Tank Co also known as California Sewage Disposal Co.....	March 19, 1931
March 31, 1931—LOTS 1, 2 and 3 Blk 4, Havenscourt, Oakland. Wm Vivian to Standard Const Co.....	March 31, 1931

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
April 4, 1931—N E-FOURTEENTH 131.21 E 13th Ave, Oakland. H R Kavanagh, Kavanagh Bros vs J R L Jones.....	\$74 and costs
Apr 3, 1931—LOT 17 BLK 4, Thousand Oaks Heights, Berkeley. Sunset Hardware Co, \$74.38; Henry M Nash, \$156.70; Mastercraft Tile & Roofing Co, \$110; Western Door & Sash Co, \$310; Markus Hardware Co, \$85; Swift Lumber Co, Inc, \$846.34; West Coast Window Shade Service, \$44; Home Fixture Builders, \$105; Al M Fearey Co, \$169 vs E R and Fraye M Converse.....	\$0.....
Apr 3, 1931—LOT 17 BLK 4, Thousand Oaks Heights, Berkeley. M C Henry to Earle R Converse.....	\$85
April 2, 1931—LOT 16 BLK 22, map No 2 of Regents Park, Albany. Strable Hardwood Co vs Paul C Groce, C J Dilley.....	\$81
April 1, 1931—S LINE WEST ST 88-2 E of Myrtle St, Oakland. S W Jones vs Joseph and Nora Rea.....	\$572

OAKLAND BUILDING TOTALS \$967,545 IN MARCH

A. S. Holmes, city building inspector of Oakland, reports the issuance of 276 building permits in March for improvements involving an expenditure of \$967,545. A segregated report of the March activities follows:

1-story dwellings.....	54	\$176,844
2-story dwellings.....	14	104,859
2-story flats.....	1	6,800
3-story apartments.....	1	40,000
1-story factory and office.....	1	27,485
2-sty gar. and shop.....	1	250
1-sty tile ser. sta.....	1	150
1-sty tile garage.....	1	1,200
1-sty brick garage.....	2	4,950
1-sty br. ser. sta.....	1	5,000
1-sty b. and conc. tile gar.....	1	2,650
1-sty conc. studio.....	1	4,000
1-story conc. garage.....	1	800
2-story conc. shop.....	1	28,719
3-story concrete school & convent.....	1	350,000
Concrete foundation.....	1	60,000
Platform.....	1	980

Billboards.....	6	1,275
Electric signs.....	27	10,045
1-sty garages and sheds.....	44	6,695
Alterations.....	57	27,840
Alters, and repairs.....	58	61,173
Total.....	276	\$967,545

BUILDING PERMITS

(San Anselmo, Marin County)

SAN ANSELMO, Marin Co., Cal.—Following building permits, aggregating an expenditure of \$25,810, were issued by Chas. H. Cartwright, town building inspector, during the month of March:

E. Lakeman, Garage. Agatha Court and Saunders Ave. Est. cost \$200.

E. Waterman. Addition. Portion Lot 3, Barber Tract. Barber Ave. Est. cost \$200.

Fred Croker Dwelling. Lot 496 Short Ranch Tract. Red Hill Ave. Est. cost, \$3000.

J. Olsen. Dwelling. Lot 20 Blk 2, Sub. 2, Morningside Court. Est. cost, \$3000.

Ed Sage Alterations. Park Drive, Tamal Park. Est. cost, \$750.

C. Skinner. Addition. Lot 6, portion 7 and 5 Osgood Tract. Main St. Est. cost, \$360.

J. Lacoste Dwelling. Lot 8 Agatha Court off Saunders Ave. Est. cost \$4000.

Carl Schafer. Addition. Traxler Ranch. Est. cost, \$500.

E. W. Ruhl. Dwelling. Lot 2 Blk 7 Sub. 1, Suffedale Ave. Est. cost, \$3000.

Thos. Minto. Dwelling. Barber Tract. Est. cost, \$2550.

Mrs. Gibney. Addition. Lot 8, San Rafael Heights Sub. 1. Greenfield Ave. Est. cost, \$150.

E. Rhoades. Dwelling. Lot 9 Blk 7 Sub. 1 Morningside Court. Est. cost, \$3000.

Mrs. A. Croker. Alterations. Portion Lot 11, 12 and 13, Osgood Tract. Bank St. Est. cost \$1000.

A. R. Lapham. Alterations to store. Ross Valley Park. San Anselmo Ave. Est. cost, \$200.

Skaggs & Minto. Dwelling. Lot 18 Agatha Court. Saunders Ave. Est. cost \$4500.

Mrs. Robinson. Garage. Karl Ave. Est. cost \$200.

S. Ratto. Garage. Sunnyside Tract. Kensington Road. Est. cost, \$200

BUILDING CONTRACTS

SAN MATEO COUNTY

STORE BLDG.
S THIRD AVE 122 W Ellsworth St., San Mateo. All work for one-story reinforced concrete store building.
Owner—Martin Stelling et al, San Francisco.

Architect—Bertz, Winter & Maury, 210 Post St., San Francisco.

Contractor—Clinton-Stephenson Construction Co., Ltd., Monadnock Bldg., San Francisco.

Filed April 3, '31. Filed April 3, '31.

As work progresses.....	75%
Usual 35 days.....	25%

TOTAL COST, \$10,688

Bond, 10,688. Surety, Commercial Casualty Ins. Co. Limit, 45 working days. Forfeit, none. Plans and specifications filed.

SERVICE BLDGS.
ARGUELLO ST., Redwood City. All work for one-story tile and stucco service group buildings.
Owner—Pacific Gas & Gas Electric Co., 245 Market St., San Francisco
Architect—Not Given.
Contractor—Clinton-Stephenson Construction Co., Ltd., Monadnock Bldg., San Francisco.
Filed April 3, '31. Dated Feb. 5, '31.

As work progresses.....	75%
Usual 35 days.....	25%

TOTAL COST, \$27,239

Bond, \$27,294. Surety, Commercial Casualty Inc. Co. Limit, 120 working days. Forfeit, \$25. Plans and specifications filed.

BUNGALOW

PART LOT 5 BLK 4, Jefferson Acres San Mateo. All work for one story stucco bungalow
Owner—Peter B. Fritz, 321 Jefferson Ave., Redwood City.
Architect—Not Given.
Contractor—T. C. Tibbs et al, Part ridge St., Menlo Park.
Filed April 1, '31. Dated March 27, '31

Roof.....	1
Plastered.....	1
Completed.....	1
Usual 35 days.....	1

TOTAL COST, \$4872.50

Bond, none. Limit, 120 working days Forfeit, none. Plans and specifications filed.

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$8000; Lot 16 Block 14, Fairfax; owner, E. J. Rohde, 1405 Cortez; contractor, Grimes and Schoening, 235 E 3rd St.

RESIDENCE, \$4000; Lot 2 blk 21, 845 South Grant; owner and builder, Lengfeld & Olund, 145 El Camino Real.

BUNGALOW, \$3500; Lots 6 and 7, 509 South Idaho; owner and builder, L. Holm, 1100 5th Ave.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted

April 2, 1931—PART BLK 15, lot 12 blk 22, Millbrae Highlands, Castle Bldg Co to Henry Horn (3 completions).....
 March 25, 1931 || April 2, 1931—LOT 49 BLK 57, Dumbarton Oaks. James C Dell to Self..... | March 30, 1931 |
April 2, 1931—LOT 14 BLK 9, Eagle Hill Addn. James T Banner to Self.....	April 1, 1931
April 2, 1931—LOT 22 BLK 24, Wisconsin Sub, Burlingame. D Haule to whom it may concern.....	March 28, 1931
March 30, 1931—LOT 10 BLOCK 6 Edgewood Park. F A Florence to whom it may concern.....	Mar 13, 1931
March 30, 1931—LOT 31 BLK 12, Vista Grande. Maurice Tosch to Ford Smith.....	March 30, 1931
April 3, 1931—LOT 3 and part Lot 4 Blk Q, San Bruno. Frasper Bro to whom it may concern.....	March 27, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
April 4, 1931—LOT 3 BLK 10, University Heights. Charles O Carlson vs Albert W Bell et al.....	\$253.00

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded Amount

April 2, 1931—LOCATION NOT GIVEN. San Mateo Feed & Fuel Co to Wm O Rutherford, et al.....

BUILDING PERMITS

REDWOOD CITY

DWELLING, frame, five-rooms, bath and garage, \$4875; No. 1113 Madri-

on Ave., Redwood City; owner, J. Fritz, 321 Jefferson St., Redwood City; contractor, Tibbs & Palmer, Partridge St., Menlo Park

BUILDING PERMITS

SAN JOSE

To Class A business building, 19,900; No. 80 S-Market St., San Jose; owner, Pacific T. & T. Co., 10 New Montgomery St., San Francisco; architect, Company Engineers; contractor, R. O. Summers, 17 N-First St., San Jose.
 2H frame residence, \$1060; Spring t. near Lenzen, San Jose; owner, ohn Podesta, 355 Lenzen St., San Jose.
 CE building, brick, \$5000; Third nd Keyes Sts., San Jose; owner, Redding Bros. Co., Fourth and eading Sts., San Jose; architect, wife & Higgins, 19 N-Second St. a Jose; contractor, C. F. Kees- ng, 748 Coe Ave., San Jose.
 DENCE, frame 2-family, \$2100; Homena St. near San Pedro, San Jose; owner, Chas. P. Fratanego, 15 N-First St., San Jose; contractor, D. Ameroso, 1053 Park St., a Jose.
 ER Clags C business building, 1200; No. 32 S-Market St., San Jose; owner, L. Bloom & Sons o., 125 S-First St., San Jose; contractor, H. A. Eriéges, 1595 Lin- ola St., San Jose.

BUILDING PERMITS

PALO ALTO

to residence, \$2800; No. 1930 avery St., Palo Alto; owner, osephine Randall, Premises; con- tractor, H. Van Polen, 210 Univer- sity Ave., Palo Alto.

BUILDING CONTRACTS

MONTEREY COUNTY

BUILDING
 ALISAL, CAYUGA A N D ward Sts., Salinas. General ork for three-story hall building. -County of Monterey.
 ict—Reed & Corlett, Oakland ank of Savings Bldg., Oakland. actor—Wm. C. Keating, 4209 ountain Blvd., Oakland.

April 1, '31. Dated Mar. 30, '31. or about the 16th day of each

month..... 75%
 1 al 35 days..... 25%
TOTAL COST, \$47,138
 none. Limit, 180 calendar days.
 ft none. Plans and specifica-
 filed.

EQUIPMENT ON ABOVE.

actor—Dimba Steel Products orp.
 April 1, '31. Dated March 30, '31 work progresses..... 75%
 ual 35 days..... 25%
TOTAL COST, \$29,364
 none. Limit, 180 calendar days.
 it none. Plans and specifica-
 filed.

CRITICAL WORK ON ABOVE.

actor—John M. Walsh (as Rodeo Dec. Co., 11 W-San Luis St., Sa- linas.
 April 1, '31. Dated March 26, '31 yments same as above.....
TOTAL COST, \$2943
 none. Limit, 180 calendar days.
 it none. Plans and specifica-
 filed.

HEATING, HEATING AND VEN-

lating on above.
 actor—Carl T. Doell Co., 467 21st t., Oakland.

Filed April 1, '31. Dated March 26, '31 Payments same as above.....
TOTAL COST, \$—
 bond, none. Limit, 180 calendar days.
 forfeit, none. Plans and specifica-
 tions filed.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
 March 21, 1931—PART LOTS 18 and 19 Blk 117 block book of City of Monterey. Mammie Tauffer to John Tauffer..... March 30, 1931
 March 30, 1931—MOSS LANDING School Site. Moss Landing School District to The Minton Co..... March 27, 1931
 April 1, 1931—LOT 8 and N HALF of lot 7 blk 167, La Loma Terrace Addn, Carmel. Carmel Realty Co Ltd to M J Murphy, Inc..... April 1, 1931
 April 2, 1931—LOT 21 BLK 7 With- er's Addn, Monterey. Ethel J Ste- ward to J W Merritt..... Mar 31, 1931
 April 2, 1931—LOT 2 BLK 9 Home- stead Addn, Salinas. Mary Roche to J Frank Laughton..... April 1, 1931

LIENS FILED

MONTEREY COUNTY

Recorded Amount
 April 2, 1931—2930 ACRES of pat- ented coal lands situated in the counties of San Benito, Monterey, Fresno and San Luis Obispo. The Charles Nelson C ovs Atlas Smelt- ing, Mining & Refining Corp, Ltd. \$2096.56
 April 1, 1931—LOTS 1, 2, 3 and 4 Blk 65 map of East Monterey. Edwin E Hewes vs E A Roters and W G Forkner \$326.95

RELEASE OF LIENS

MONTEREY COUNTY

Recorded Amount
 March 30, 1931—LOT 17 BLK 1, map No 2, Del Monte Heights. Tynan Lumber Co to Donald Wallace..... \$798.50

BUILDING CONTRACTS

CONTRA COSTA COUNTY

CHURCH
 LOTS 4, 4, 5 AND 6 BLK 59, City of Pittsburg. All work for plumbing for Saint Peter Martyr Church. Owner — The Roman Catholic Arch- bishop of San Francisco, 1100 Franklin St., San Francisco.
 Architect—Arnold Constable, 580 Mar- ket St., San Francisco.
 Contractor—Freltas Plumbing Co., 1917 E-14th St., Oakland.
 Filed Mar. 31, '31. Dated Mar. 17, '31. On first of each month..... 75%
 Usual 35 days..... 25%
TOTAL COST, \$1275
 Bond, \$1275. Surety, Massachusetts Bonding & Insurance Co. Limit, forfeit, none. Plans and specifications filed.

HEATING ON ABOVE.

Contractor—Thos. J. Kennedy, Mar- tinez.
 Filed Mar. 21, '31. Dated Mar. 17, '31. Payments same as above.....
TOTAL COST, \$2672
 Bond, \$2672. Surety, Massachusetts Bonding & Insurance Co. Limit, forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 March 31, 1931—TRACT OF LAND known as Ignace Addition to Walnut Creek. J G Oranzino to whom it may concern..... March 30, 1931
 March 31, 1931—E 1/4 LOT 5 BLK 87 Amendment No. 1, City of Pitts- burg. Horace J and Nina Billico to G S Lucido..... March 27, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 March 31, 1931—N 50 FT. LOT 39, all Lot 40 Blk 7, Amended City of Richmond. J F Snyder and J E Haxton (as Snyder & Haxton) vs C Valine, Frank Lawrence, Louis Diaz et al..... \$147.15
 March 31, 1931—E 1/4 LOT 1 BLK 32, Boulevard Gardens Tract No. 1. Martin M Griffin and John Carrick (as El Cerrito Wrecking Co) vs E E Rose \$55.70
 March 31, 1931—LOT 31 S 1/2 Lot 32 Blk 35, North Berkeley Terrace. Carlstrom Bros & Person vs Henry Fred Block \$122.50

BUILDING PERMITS

STOCKTON

DWELLING and garage, brick veneer, \$4900; No. 128 Euclid Ave., Stock- ton; owner, Carl Gessler, 1015 W- Fremont St., Stockton; contractor, S. C. Giles, 121 Knowles way, Stockton.
 DWELLING and garage, 2-story, rustic, \$6200; No. 430 N-Regent St., Stockton; owner, C. J. Camp- bell, 426 W-Walnut St.; contrac- tor, S. C. Giles, 121 Knowles Way, Stockton.
 DWELLING and garage, one-story, brick veneer, \$4800; No. 223 Alpha Ave., Stockton; owner, E. C. Cole- man, 223 N. El Dorado St., Stock- ton; contractor, S. C. Giles, 121 Knowles Way, Stockton.
 DWELLING and garage, brick veneer \$5380; No. 1731 W. Harding Way, Stockton; owner, Averil Thomas, 1133 W. Harding St., Stockton; contractor, S. C. Giles, 121 Know- les Way, Stockton.

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 March 31, 1931—NO. 523 BARNETT Ave, Santa Rosa. A E James to whom it may concern..... March 31, 1931
 March 31, 1931—LOT 240 BLK 8, Wheelers 2nd Addition to Santa Rosa. Clarence H James to whom it may concern..... March 31, 1931
 March 31, 1931—LINDA VISTA District. California Water Ser- vice Co to Harold Anderson..... March 26, 1931
 April 1, 1931—LOT 261 BLK 8, Wheelers 2nd Addition to Santa Rosa. Nathan Olmos to J E James..... March 31, 1931
 April 7, 1931—E STEINER COURT S Sonoma Ave., Santa Rosa. W R Lippincott to whom it may con- cern..... April 7, 1931

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
 April 2, 1931—ACROSS MOKEL- umne River near Lodi. Dept of Public Works, State of Calif to J S Metzger & Son (bridge)..... March 30, 1931

LIENS FILED

SAN JOAQUIN COUNTY

Recorded	Amount
April 1, 1931—SECTION 34, T 4 N R 6 E, Woodbridge, Turner Hardware & Implement Co vs Samuel and Elvira Sebastiani and Salvadore Castorena	\$1320.90

COMPLETION NOTICES

MARIN COUNTY

Recorded	Accepted
March 31, 1931—CORTE MADERA Minnie Maxson to Wm Dwyer	
March 30, 1931	
April 2, 1931—CORTE MADERA. Corte Madera Volunteer Fire Department to Wm Wegner	
March 30, 1931	

LIENS FILED

MARIN COUNTY

Recorded	Amount
April 4, 1931—SAN ANSELMO. Berl I Goodheart vs Fred Mendenhall, R C Doherty et al	\$125

BUILDING PERMITS

SACRAMENTO

RESIDENCE and garage, \$5000; No. 3811 McKinley Blvd, Sacramento; owner, J. Fernandez, 3040 1/2 33rd St., Sacramento.

MOVE dwellings, \$1600; From 3327 3rd Ave. to 3217 32nd Ave., Sacramento; owner, Robertson Govan Company.

STORE, \$3900; No. 1221-23 19th St., Sacramento; owner, C. Craver, 300 J St., Sacramento.

BUILDING PERMITS

SACRAMENTO

RESIDENCE 7-room, \$6000; No. 2559 Land Park Drive, Sacramento; owner, T. L. Nightingale, 2501 F St., Sacramento; contractor, Chas. G. Thompson, 1720 35th St., Sacramento.

RESMODEL residence, \$3000; No. 2100 23th St., Sacramento; owner, C. Triboli, 316 V St., Sacramento; contractor, C. Vanina, 2622 M St., Sacramento.

RESIDENCE, six-room and garage, \$5000; No. 2957 23rd St., Sacramento; owner, Henry Schmidt, 4097 H St., Sacramento.

GENERAL repairs, \$3900; No. 730 L St., Sacramento; owner, R. G. Kaiser; contractor, Yoho & Dauger.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded	Accepted
April 6, 1931—LOT 2194, W & K Tract No. 24, Annex. I J Elliott to whom it may concern	
March 30, 1931	
April 3, 1931—LOT 16, Goethe Sub No. 60, Sacramento. Charles and Nellie Miller to whom it may concern	
March 28, 1931	
April 3, 1931—LOT 27, Ridgewood. Joseph and Gertrude J Pedone to whom it may concern	
April 2, 1931	
April 3, 1931—W 1/2 OF N 1/2 LOT 4 P. Q., 21st and 22nd Sts., Sacramento. Charles McNeill and Dorothy P Hark to whom it may concern	
April 1, 1931	
April 4, 1931 — WALNUT GROVE. Associated Oil Co to whom it may concern	
April 1, 1931	
April 3, 1931—LOT 23, Howler Ter-	

race, Sacramento. Edward Lee to whom it may concern. April 2, 1931

March 31, 1931—LOT 34, Howell Clark Tract, Sacramento. Robert I Reed to whom it may concern.

March 31, 1931

LIENS FILED

SACRAMENTO COUNTY

Recorded	Amount
April 6, 1931—LOTS 1 AND 2, Kathleen Tract known as 2500 8th St., Sacramento. The Diamond Match Co vs I J Blake and Fred Kaiser	\$42.60
April 6, 1931—LOTS 1 AND 2 Kathleen Tract, Sacramento. Construction Materials Co vs Fred Kaiser; I J Blake and Kaiser Bros	\$420.99
April 1, 1931—LOTS 1 AND 3, Kathleen Tract, Sacramento. I M Arm and Bell Paint & Glass Co vs Fred and Jacob Kaiser	\$578.95
April 2, 1931—N 60 FT. LOT 1, I, J, 8th and 9th Sts., Sacramento. F A McIntyre vs Progress Trading Co, Ltd and Title Insurance & Guaranty Co	(2) \$85
March 31, 1931—LOTS 1 AND 2, Kathleen Tract, Sacramento. Oak Park Lumber & Milling Co vs Fred Kaiser and Kaiser Brothers	\$1340.55
March 31, 1931—LOTS 1 AND 2, Kathleen Tract, Sacramento. Sacramento Builders Supply Co vs Fred Kaiser	\$290.25

BUILDING PERMITS

FRESNO

SERVICE station, tire and battery service, \$2500; No. 245 Olive Ave., Fresno; owner, Brady Martin, H and Belmont Sts., Fresno; contractor, Jolly & Harrington, 834 Arthur St., Fresno.

DWELLING and garage, \$3000; No. 1006 Coast Ave., Fresno; owner, H. S. Koon, 558 Bond St., Fresno;

contractor, D. W. Doss, 3239 Illinois St., Fresno.

DWELLING and garage, \$5600; N 440 Harvard Ave., Fresno; owner Taylor-Wheeler, Inc., Power Co Bldg., Fresno.

DWELLING and garage, \$5000; N 2940 Huntington St., Fresno; owner, H. K. Lathy; contractor, A. Lambert, 1576 Poplar St., Fresno

RESIDENCE and garage, \$4250; N 203 Hawes Ave., Fresno; owner Victor De Luca; contractor, T. Griffith, 435 Yale St., Fresno.

DWELLING and garage, \$5000; 4142 Huntington St., Fresno owner, R. P. Moore, 3662 Verr St., Fresno.

COMPLETION NOTICES

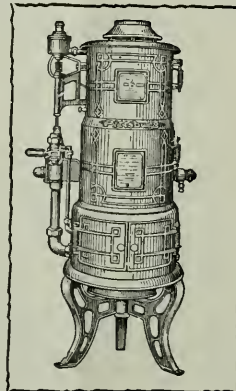
FRESNO COUNTY

Recorded	Accepted
March 31, 1931—LOTS 17 TO 21 Blk 28, Colvis. Peter Lavia to Walter Jarvis (re-recorded)	
March 19, 1931	

ENGINEERING GROUP WILL STUDY EUROPE

Under the direction of Prof. N. Miller, head of the Rutgers University extension division, Europe, including Russia, will be toured by a party of educators and engineers next summer. The engineering division of the tour, under the direction of Parker H. Duggan, dean of the college of engineering at Rutgers, will visit important factories and industrial plants at hold conferences with engineers, business executives and labor leaders. Practical education and engineering will be combined through a course in engineering economics to be conducted en route.

The countries to be visited include Germany, Austria, France, Sweden, Finland, Denmark, Switzerland, Russia and Poland. The party will start from New York on July 4.



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SAN FRANCISCO, CALIF., APRIL 18, 1931

Published Every Saturday
Thirty-first Year, No. 16



OAKLAND
BUILDERS'
EXCHANGE
Glencort 7400



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Building and Engineering News

Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

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SAN FRANCISCO, CALIF., APRIL 18, 1931

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Building and Engineering News will be sent to subscribers until ordered stopped and all orders to discontinue must be sent in writing to this office.

"RATING" PROPOSED IN BUILDING FINANCE

Steps toward a finance system for building, including "rating" under national codes of Certified Building Registry, modified for local conditions and made by community councils, will be discussed during the cabinet meeting of Associated General Contractors of America in Washington next month. The discussion of details during the convention of American Institute of Architects at San Antonio, Texas, April 14-15, will then be reported.

The "A. G. C." has been asked for recommendations of an outstanding contractor to represent the contractor group on the Governing Board of the C. B. R., together with men who will represent the A. I. A., engineering societies, realty management, realty builders, fire underwriters, public utilities, building trade, regional planning and housing reform organizations and lenders. Among those who will be members of the enlarged governing board, it is said on good authority, are N. Max Dunning, architect of Chicago; Rudolph P. Miller, consulting engineer of New York; Douglas L. Elliman, management operator of New York; Louis G. Walker, of Detroit, realty builders; and a representative of a national association of fire insurance agents, who produce the bulk of stock company business.

"Certified value" as a factor which rating discloses, in respect to gross income permanence, maintenance and operating expense, has been advocated as an essential for appraisers to consider in the improvement of practice by which stimulus can be given to rebuilding of city slums.

LABOR STABILIZATION BOARD BEING FORMED

The Federal Employment Stabilization Board, authorized by one of the Wagner Bills passed during the last session of Congress, will be organized this month, says The Business Week. Appointment of a director is expected to be made by the President shortly. Congress appropriated \$90,000 for the board's work and, upon nomination of a director, activities can be started at once since two of its units are already working in order—the public construction branch of the Department of Commerce and a section of the President's Emergency Committee for Employment.

The Federal Board is composed of the Secretaries of Commerce, Treasury, Agriculture and Labor. The Secretary of Commerce will be in direct charge. Main function will be to inform the President of trends of employment and business activities. When business depression is anticipated, the President is expected to ask Congress for additional appropriations for accelerated public works programs.

JOHN G. LITTLE, ENGINEER, CHARGED WITH INCOMPETENCY

"John G. Little has committed acts of gross incompetency in his practice of civil engineering, in that on Nov. 17, 1930, he rendered to a special committee on water supply investigation of the Board of Supervisors a purported engineering report on the San Francisco water system, which report was made without proper or adequate investigation."

The above charges have been filed with the State Board of Registration for Civil Engineers by M. M. O'Shaughnessy, city engineer of San Francisco, and Nelson Eckart, assistant city engineer.

The charges are based on a report made by Engineer Little to the San Francisco Board of Supervisors last November wherein he declared there was danger of a serious water shortage for the city and recommending the bringing of Hetch Hetchy water into San Francisco through the proposed Altamont Pass pipe line.

STOCKTON BUILDERS TO FIGHT LABOR LAW

Efforts to educate the public as to why the proposed city and county ordinances which would require only local labor on public projects should be defeated will be made by the Stockton Builders' Exchange, it was decided in a special meeting of the board of directors last week.

Members pointed out that if nearby communities should adopt similar ordinances, local contractors would have to hire entirely new crews in other cities and would be put to great inconvenience and expense, since 40 per cent of the members of the exchange now have 75 per cent of their work in other places.

If the city and county passed such ordinances, it was pointed out, skilled and unskilled workers from anywhere in the county could work on county projects, but residents in the subdivisions of Stockton could not work on city projects because the city ordinance suggested would limit the employes to residents within the city proper.

Contractors and sub-contractors would have to hire personnel managers to make certain that only local labor was employed and the sworn affidavits of those so hired would be required to seek to insure that they were qualified by residence, it was stated.

The provision of a year's residence, it was declared, would cause a hardship to skilled workers from outside who would come here to work on public projects and would invest in a home and pay taxes, only to find that they were not eligible by length of residence.

ENGINEERING CONTRACT AWARDS LESS THIS YEAR

Engineering construction contracts totaled 663 millions for the first quarter of 1931, compared with 826 in 1930 and 1122 in 1929, Engineering News-Record reports. This drop of 15 per cent from last year occurred entirely in the Middle Atlantic and Southern states and was in private work. In New England and the Middle West volume was exactly the same as a year ago. West of the Mississippi River there was an increase of 15 per cent, that in the Far West amounting to 26 per cent. The decreases were 41 per cent in the Middle Atlantic states and 22 per cent in the South.

Building construction is down 31 per cent: residential 6; industrial and other buildings 42 per cent each.

Other structures, including public-utility work, are down 37 per cent. Public-works contracts are 24 per cent heavier than last year, due to a 22 per cent gain in highway work and a very heavy increase in federal construction except buildings. Volumes of the last two years balance exactly for waterworks, sewers, excavation and unclassified. Public bridges totaled 24 millions this year and 22 millions last year, buildings 56 and 70 millions respectively.

Local Architecture Changing, Says Hobart

The architecture of San Francisco will undoubtedly undergo an almost complete new development during the next generation, adding to the attractiveness of the city as one of the most delightful places in which to work and live, according to Lewis P. Hobart, San Francisco architect and designer of the new Mills Tower. His observations in this connection were made in the course of an investigation of the Crocker First National Bank to project the future of San Francisco in all phases, including industrial and commercial possibilities and general civic development.

"San Francisco's unsurpassed location, with its marvelous waterfront of both bay and ocean, and with the topography of hills, should be one of the most beautiful cities in the world," said Mr. Hobart.

In the San Francisco of the future Architect Hobart sees: "A modern trend of high buildings; opportunities for a wonderful waterfront with several elevated landings over the Embarcadero for transcontinental and trans-Pacific airplanes; the city's hills crowned with great apartment buildings; beautiful parks and boulevards developing as the city grows and spreads down the Peninsula; and Chinatown, North Beach, Potrero and other districts each adopting its own individual and characteristic architecture."

PRACTICAL APPLICATION OF TRADE PRACTICE RULES

(By Arthur Fisher, Counsel for the Concrete Reinforcing Steel Institute, Chicago, Illinois)

Trade practice rules refer usually to the rules of the Trade Practice Conferences held under the auspices of the Federal Trade Commission. They are not necessarily the only type of trade rules. You can have identical rules in associations or institutes which have not actively cooperated with any organ of government in formulating a code. Trade practice rules are, of course, but one development and one activity of the general trade association movement.

I suppose the trade association movement had its origin far back in the guild movement, in the early beginnings of business and industry. The modern trade association movement in the United States concerned itself at the start primarily with questions of scientific production, market extension, simplified practice, the gathering of statistics, and similar issues.

The trade practice movement, on the other hand, refers more specifically to that phase of trade association work dealing with the relationships of competitors to each other, with those points where individuals tend to clash, in their competitive relationships with each other or with other groups and the public, a much more difficult and delicate field of association activity.

In the past three or four years some 126 industries in the United States have elected to promulgate trade practice rules in cooperation with the Federal Trade Commission dealing with these competitive inter-relationships of their members. These industries include many of the largest and most important in the country. The grocery conference includes some 400,000 different business units. The petroleum industry of the United States has over eighteen thousand signers to its trade practice rules, has had a large budget and has adjudicated some 4,000 or 5,000 cases under its rules.

In the iron and steel industry a number of conferences have been held. We have worked closely with the Concrete Reinforcing Steel Institute and have had some contacts with the conference of the structural steel industry and of the metal lath industry, which has also had a trade practice conference.

In addition to these trade practice conferences conducted in cooperation with the Government, many other industries have promulgated trade and competitive rules based, with variations, on the rules of the conferences held in cooperation with the Federal Trade Commission. So the total list of associations that have promulgated trade practice rules of one sort or another would number many more than 126.

So far as I personally am concerned, and so far as the organization of which I am a part is concerned, we do not wish at the present time to appear in any sense as an advocate of the trade practice conference in cooperation with the Federal Trade Commission. So long as the existing uncertainty exists with reference to the attitude of the Commission towards the rules and their administration in the case of industries which have heretofore held conferences, it is not possible for us to advise new industries or groups to undertake to cooperate with the Commission. The members of the Commission must first adopt a clear and consistent policy with reference to the scope of the rules and their revision before any groups can wisely expend their time and money

Address delivered by Mr. Fisher at the Seventh Annual Conference of the Iron, Steel and Allied Industries of California, at De Monte, California, February 12-14, 1931.

In conferences held under federal supervision. The Commission and its divisions charged with this effort to deal with the most vital and difficult problems of American business life have a great opportunity. It is to be hoped there will be no failure to take advantage of it through vacillation and incompetence.

Nevertheless whatever may be the wisest procedure for groups which have not yet held conferences, industries that have already adopted trade practice rules either in cooperation with the Government or by borrowing from the codes adopted under the auspices of the Commission should proceed forward with their rules rather than backward. They have the practical problem on their hands of the effective administration of their rules.

It has been customary in some quarters to view sceptically pious codes of ethics. I believe that there is some value even in an unenforced code of ethics. The Ten Commandments have been of some use even though it has been said they have never been tried. Certainly they have never been effectively policed or administered. Any statement of an ideal or principle is worth something. But it is true that codes of ethics have come somewhat into disrepute because of the fact that people have considered them more as pious expressions of good intentions than actual working parts of business administration.

Mr. Kerr spoke just now of the experience of the banking world. I have been much impressed for a number of years with the success of the banking world in handling many of the problems of its competitive relationships. One of the chief instrumentalities in our large cities for handling the competitive relationships of the bankers, and which go beyond mere expressions of good intentions, are the banking clearing houses. We have similar instrumentalities for carrying out codes of ethics and rules of administration in the case of our stock exchanges and our boards of trade. Each of these three groups of American industry have standards, have codes of business relationships which mean something because they are actually administered. They are not just statements of good intentions. Of course, in each of these three cases, stock exchanges, boards of trade and banking clearing houses, the chief method of successful administration has been the offering of a facility so desirable to the men in that industry that they cannot afford to be deprived of it. The association interested in the standards of its code has afforded such vital and essential services that the threat of taking away those services has been the chief means of policing and effectively administering its rules.

We find that beyond the primary problem of education and holding up of a standard, higher often than the present standard of competitive and market relationships, one of the most effective means of practically administering these codes is the offering of certain services which are so vital to the individual that the industry needs only to suggest that the service will

be shut off if the code is not lived up to. Where such a cooperative service can be developed it is often a more effective means of policing and administration than any threat or punitive measure of any sort can ever be. Such services may include the exchange of statistical information or closed transactions, quantity estimates and engineering work, and numerous other services, continuous use of which tend to build confidence and to make a man or firm jealous of its good standing and reputation in the industry.

In dealing with problems of actual policing and enforcement, two general types of trade practice rules should be distinguished. The first type, which in those groups that have dealt with the Federal Trade Commission are called Group I Rules, are rules that attempt to write out in the language of the particular industry the standard of the existing law that of the Sherman Act, the Clayton Act, or the Federal Trade Commission Act, and the judicial decisions thereunder. Usually an effort is made to translate the broad generality of the law into the language of the particular industry, into terms of flat glass, nuts and rivets, of bricks, structural steel, groceries, or whatever the commodity of the industry in question is.

In dealing with these problems of competitive relationships, which are the heart of the trade practice rules, you are not merely dealing with one phase of the Anti-Trust Laws which are written to protect the public, but also with that other large section of the Anti-Trust Laws which has been developed and written to protect business itself—this section of the Law, which is perhaps more than any other of the law, which does not deal with monopoly or restraints upon the consuming public, but with unfair competition between the members of the industry themselves. The ultimate philosophy of even this portion of the law may be to protect the public, but in the process it prevents, for example for example, a powerful market factor from maintaining a high price in one geographical locality and going out and killing off competitors of smaller size one by one in their separate localities. This portion of the Anti-Trust Laws was written and has been administered, developed, and evolved by the courts for the purpose of establishing higher standards within business itself than that which the pirate, the racketeer, and the business outlaw would adhere to if left to himself.

This particular of the Anti-Trust Laws has, in a great many cases, been written into concrete trade rules and is administered by definite organizations within industry. In some cases complaints are referred in the first instance to district or state organizations, with later appeal to a central committee, and if the central committee cannot get results or obedience to its decision, then to the Federal Trade Commission itself, or to the courts. These Group I rules include the rules against unfair price discrimination, unfair secret rebates for the less favored, and of eliminating competition, rules condemning the acts of the Federal Reserve, including branches of contract, rules that seem more or less axiomatic, since they are statements of existing law, but which, nevertheless, in my experience in the administration of

these codes give rise to numerous cases of violations which, if ignored, tend to undermine confidence, tend to that back-biting and retaliation which Mr. Foster just referred to, and which often fester in the minds of the executives of different companies. If, however, the facts are developed and brought out in the open, the cases adjudicated promptly and efficiently, they may be the means of very definitely promoting general confidence and thus react to the improvement of general competitive and market conditions.

It is often important, in administering such rules, to go beyond the mere statement of the rule and promptly use clear interpretations of the broad language of rules in the light of the particular facts of given industries. For example, take this rule of the reinforcing steel industry, which is Rule of Group I:

"Any willful attempt to induce a breach of any existing bona fide contract or to prevent the performance of any contractual duty or service under any bona fide contract for the sale of reinforcing materials, is an unfair method of business."

That sounds simple, almost self-evident, and yet a great many difficult questions of interpretations may arise under that rule. A common problem we have had to deal with, in connection with that rule is this: How is the fact to be established that there is a bona fide contract? If you have such a rule you will find a number of people attempting to use the rule itself unfairly. One competitor will say to another, "I have got a contract with X. Keep off my contract. If you do not, I will appeal to the Executive Committee of the industry and roam them to the Federal Trade Commission." But perhaps the man who says that has no contract at all. His salesman has perhaps only telephoned a firm in the field and said, "I have a commitment and I will get the contract the day after tomorrow if you can do something to keep Z out of the picture." Therefore, it becomes necessary to go further and issue an interpretation of the rule to meet this situation. We have required that if the reinforcing steel group that if a seller claims a contract, and his competitor is charged with inducing breach, and his competitor doubts the existence of that contract the burden is on the seller who claims the contract to offer to send a copy of that contract to the other party. And unless he does that he cannot claim that the second party has induced a breach.

We have similar questions in connection with the rule against commercial bribery. The rule says: "Commercial bribery, whatever the form and wherever given, is hereby declared an unfair trade practice, an unfair method of competition, and contrary to the public interest."

The question has arisen as to whether or not a seller to whom a special payment to the engineer of the owner, when the seller has no direct relationship to the owner but is merely dealing with the contractor as buyer, is that bribery when no payment is made by the seller or any other relationship, to any other person, any relationship to the man with whom he contracts? The interpretation which we are now promulgating in the reinforcing steel industry is to the effect that any payment to any person, employee of the contractor or to any person in a relationship of trust or confidence or who owes an obligation to the owner, is bribery whenever made without full knowledge of both the buyer and of the seller.

These are more or less typical illustrations of Group I Rules. Viola-

tions of these rules may be punished by Executive Committees of the industry, in some cases by requiring direct restitution of money damages, and if the authority of the Conference is flouted, there may be direct appeal to the Commission or the courts.

We have another set of rules that I think are, in many ways, more important and more interesting to us. They are so-called Group 2 Rules which, in the case of the Federal Trade Commission Conferences, are merely received by the Commission as the expression of the industry's opinion to those standards and principles which the industry wishes to have adopted as controlling competitive relationships. Such rules usually set a higher standard than the law, either a higher absolute standard or a higher recommended standard. The recommended rules are often rules which are promulgated to prevent unfair competition arising. In business, as in the practice of medicine, the preventative rules, the rules which develop customs and practices to prevent the necessity for policing, are often much more vital and important than those rules which require enforcement and punitive measures. It is as to Group 2 Rules that the Commission has done most of its recent tacking and filing.

One of the Commissioners, who has been active in conducting the conferences of a very important group of industries whose violation of business runs into several hundred millions of dollars, has taken the position publicly within the last thirty days, that any agreement to carry out a Group 2 Rule which prevents a business man doing that which he can lawfully do under the Anti-Trust Laws is improper. Such a position is untenable. That is practically saying to American business that it cannot attempt to create any higher standards than the pitifully low standard of the criminal law. It is the equivalent of saying to a banking clearing house that it cannot establish standards to prevent its members doing those things which they could do outside of the clearing house without committing a crime. It would prevent the Board of Trade, or the Stock Exchanges of Chicago or New York, from requiring, by an Exchange rule, the reporting of closed transactions. Such an interpretation of the law, which has been apparently acted on in certain industries in the last few weeks, goes back before the promulgation of the rule of reason in the tobacco and oil cases. It is saying that any restraint on competition is improper whether reasonable or unreasonable. To have a Commission composed of specialists supposed to be in the field for the insight and ability to handle business problems, take such a position, seems to me so preposterous that I cannot find words too strong to characterize the pronouncement.

However, let me give you some illustrations of the Group II rules that have been adopted by industries and have been efficiently administered without objection from the Commission. I might say, first, that among the industries that have adopted trade practice rules, there are some groups that have done nothing with their rules; they have just approved them, as our approves of the Ten Commandments, and done no more. Another group has taken the viewpoint that the rules would be sufficiently enforced by the Federal Trade Commission itself. This group of industries has already thought that the law is required is just to adopt the rules, in cooperation with the Government, and then to sit back on its haunches and somehow the Government will do all the rest. Then there has been a third group which has taken the viewpoint that the rules do not mean much unless, in the first instance,

there is a vigorous and competent association following them. The original invitation for the Conference comes from the Commission. The rules are promulgated by the Commission, but you must have an organization of your own to see that the Government performs its function. This third group has said, "This code is a mere instrument, a tool, which may be useful if we have the skill and the ability to use it effectively."

An example of this latter group that has been efficient in the carrying out of its rules is the plumbing and heating industry. The industry has a vigorous administration. They have, I believe, 1300 signers to their rules. They have handled many questions of interpretation and many decisions and complaints. The industry, prior to this catastrophic action of the Commission ten days ago, was effective, perhaps too effective, in administering its rules.

I must admit that a certain small section of industries that have held these conferences have possibly intended to use the plumbing and heating smoke-screen. They have wanted to use the conference as window dressing so that if they get into trouble they could claim that they had the approval of the Commission for all their activities. One of the causes for the recent back-sitting on the part of the Commission has been the revelation to the Commission of certain specific cases where the rules were not adopted in good faith, but a cover for something else that was not laid out on top of the table. I do not believe that such practices have characterized any substantial part of the conferences.

The Department of Justice supports the trade practice conference movement. Last May, at a meeting of the Congress of Industries, Mr. John Lord O'Brien, in charge of the Antitrust Division of the Department of Justice, stated that the Department of Justice was in accord with the trade practice conference movement, believed the movement as a whole was sound, just exactly as the original trade association movement. The industry work on closed transactions has been on the whole sound. Since then Attorney General Mitchell has permitted himself to be quoted in an article published in Collier's Weekly some months ago to precisely the same effect.

It is true that in this movement we are pioneering into new fields. Business is not static, and especially the field of competitive relationships is not static. We went through a five to ten year period when the whole question of what trade associations could do in the field of the exchange of information in the field of transactions full of doubt. The Department of Justice took the view that many of such activities were improper and as a result business men for a period of years were subjected to suit and indictment. Finally we secured the market clearing and cement decisions by the Supreme Court sustaining the right of associations to engage in that field of activity. But after having secured these two lighthouse decisions in that field we have moved forward into new twilight zones, and we will always be moving forward into new zones of uncertainty so long as American business progresses and commercial relationships become more intricate and complex.

One of the great values of the trade practice movement, one of the things that has led many groups to cooperate with the Commission, has been the opportunity afforded the business to promulgate a rule and to ask the Commission, "Is this rule sound or is it improper? It is most important for us to have a majority and correct answer to that question, and to be able to rely on your decision." For a num-

ber of years under Assistant Attorney General Donovan, associations could go to the Department of Justice and get an authoritative answer to such questions. But this service was abandoned by Attorney General Mitchell.

The trade practice conference movement developed partly in the belief that through trade rules business groups could secure from the Federal Trade Commission authoritative answers to such questions. When they had the Commission's approval they could have confidence that there would be no criminal proceedings for reasonable action under any rule.

It was recognized, of course, that the Commission reserved its right to change its mind and modify its approval as it learned more about the facts, and as the situation itself changed, but business expected to rely on its right to effectively administer these trade practice rules which the Commission had itself promulgated.

Dealing now with the field of prevention, with the setting up of standards preventive of unfair practices higher than the minimum legal standard, one of the most conspicuous things that has been done has been in connection with the practice of publishing individual prices. We are still in the twilight zone as to just how far business men can go, first in agreeing with each other that they will publish their prices, publish them not to their competitors, but primarily to the buying trade. And, second, how far they can go after publishing prices in committing themselves to the consuming public that they will not depart from those prices without public announcement of a change or withdrawal. Mr. Abbott has spoken here about the importance of that policy merely as a matter of general business policy and its importance in preventing individual instances of discrimination slowly undermining a generally sound market, and leading to sales below cost and severe and uneconomic price wars.

The trade practice rules with reference to price publication which still, despite the recent decision in the petroleum industry case with reference to posting prices, stand approved by the Commission in the case of many industries, recommends the practice of each individual seller publishing his firm net price and standing on it. The seller arrives at the price by an act of individual judgment and at its sole discretion, and reserves the right to revise that price whenever it wishes, but commits itself, so long as that price is out to the buying trade over the signature of the individual firm, that the published price shall mean just what it says.

My own interpretation of the action of the Commission, in rescinding Rule 17 of the petroleum industry, which I might remark in passing had indirectly received the O. K. of the Department of Justice in a consent decree, is that a distinction has been made between the case of an industry which requires every member of the industry who had signed the rules to publish a price and to agree not to depart from that price while it remained posted, and the case of an industry rule which merely recommends the policy and leaves the individual firm free to publish or not, with the right to withdraw entirely from publication if he wishes to withdraw, and without any agreement not to depart, beyond the announcement over his own signature to the buyers that he is in the trade, and published, is a firm net price. My own experience leads me to believe that it is more important to get firms to so commit themselves in writing, over their own signatures, and to distribute their prices to the buying trade, with a statement that their prices are not fictitious prices from which discounts

are figured, but net prices from which no employee, agent or representative is authorized to make a discount, than it is to enter into a private agreement with competitors not to depart from published prices. The strongest position, both in practical application and in the eyes of the law, arises from an individual firm's publication of prices to the buying trade itself, without any agreement with competitors either as to the publication or its withdrawal.

I find it is harder to induce each firm in a group to put out its price to the buying trade, with a statement that the prices are prices from which no employee is authorized to make any discount until they are withdrawn or a new price put out, than it is to secure an agreement not to depart from published prices. The average firm is more jealous of its reputation before the public and more careful about a public announcement over its own name than it is as to any private or secret agreement with its competitors.

Therefore, I think that the recent rescission of Rule 17 in the oil case it is not a vital matter. I think that American industry can still go ahead with the substance of the price publication plan. I think the practice is sound economically and therefore legally, if any doubt exists on the point. An organized business of the United States should fight the issue thru until it is won. American business must have the right to commit itself, if an industry so elects, to publish its individual prices, and, when those prices are individually published and outstanding, that they shall mean what they say. From the attitude and expressions of the Supreme Court of the United States in the American Can and Ladoga Can cases, in which the element of fraud based on publication figured equally with that of discrimination, I believe we can count on the intelligent support of our highest tribunal on this matter.

You may properly ask what are the means of enforcement for these Group II rules, inasmuch as they set up a higher standard than existing law. Can any disciplinary measures be used in the case of an individual or firm which has indicated its acceptance of such recommendatory rules and then departs with reference to the publication of individual prices, or thereafter departs from both the spirit and the letter of the rule? In general it may be said that adherence to the Group II rules must be based primarily on voluntary acquiescence rather than coercion. I have already referred to the importance of educational work and acceptance of the rules as a condition of access to association and trade services. The best horse is that which can be driven with the least yanking and pulling around.

Experience, however, has developed a series of measures which may be taken to secure obedience even to Group II rules. The first step is to set up a procedure which will tend to discourage departures even where they originate. In the case of published prices the reporting to a central source, in the form of original copies of contracts if possible, of all closed transactions is an important measure of this sort. If the firm knows that all its sales will become a matter of written record subject to check, it will be hesitant to depart from its outstanding price bulletins without public withdrawal or change. Moving towards the market practice of a firm or single bid system, the fixing of definite dates for openings of bids are of value. The same may be said of standard specifications and accurate and impartial quantity estimates.

If, despite those measures, departures are detected or a complaint

thereof is filed, the first step is to ascertain the facts. The mere investigation is a form of discipline and may develop either that the complaint unfounded, that the rule was innocently misinterpreted, or that the violation was by some minor employ or agent. Bringing the situation to the attention of the president of the company or chief of the department with reprimand or possibly dismissal of the responsible representative, may be all the enforcement indicated.

But the head of the concern himself have acquiesced in the violation, or the president of the company or chief of the department with reprimand or possibly dismissal of the responsible representative, may be all the enforcement indicated. Exposure of the facts before the opinion of a profession is an important enforcement measure, not to be disregarded because of its apparent mildness. In the case warrants, the defendant may be required to sign a stipulation admitting the facts, accepting the decision of the administrative tribunal and agreeing to discontinue the practice in the future. In most instances the signed stipulation of a first offender may be filed without further action. Even in cases of violation under federal law the Trade Commission now disposing of the great majority of its instances of unfair competition by stipulation.

If deemed desirable, or if warrant as a precedent or because of the interest of the issue or interpretation of the facts and decision in the stipulation may be bulletined to the trade without revelation of any names identifying circumstances. However the administering committee should reserve the full privilege, in the event of a repeated offense, of publishing the stipulation in the Fifties publicity. In an enforcement measure of great power, industries who desire teeth behind their rules here havefangs which they will do well to use with great discretion—not because of their inadequacy, but because of the penetrating character of the most effective club is the one which is held in reserve and does not have to be used. A concern's reputation before the trade is a matter both of pride and highest financial value. Publicity, unnecessary, should be carried direct to the buying trade as well as to competitive industry itself.

Business outlaws, of course, exist whose acknowledged practices and methods make any control through their reputations entirely ineffective. Callous to criticism or the public opinion either of their customers or their competitors, they accept rule and ethical codes only as smokescreens and blinds for their depredations. Where the issue is one of so-called discounts, the most effective published commitments, no legal reason is seen why a financial penalty can not be exacted in the form of requiring the removal of the discrimination between buyers of the same quantity during the same period and under essentially similar conditions by refunding to buyers who have previously paid the full price the amount of the rebate. The extent of the adjustment must be commensurate with the seriousness of the discrimination if work is to be primarily carried through so as to remove the unfair discrimination between the buyers and only incidentally to correct the fraud and imposition on other competitors.

Failing satisfaction through resort to any of these methods, particularly in the event of complete disregard of the administrative officers and tribunal, appeal may be made directly to the Commission. While violations of Group II rules may deal with recommendatory practices, they may be found in an act or statute with whose administration the Commission is charged.

ed, the effects in particular cases of departures from such rules will often be on the issues of fraud or discrimination of which the Commission or the courts may properly take cognizance. A number of industries have, however, handled some hundreds of complaints with substantial and effective results without coming to the point where direct governmental assistance was necessary or desirable.

You have heard something this morning about the condition of the railroads of the United States and their efforts to meet the conditions of the automotive industry and our modern highways. It seems to me,—the picture is not any more perfect than most analogies,—that in this trade practice conference movement and in the development of trade practice rules, we have a situation something like this: For some years the trade association movement was engaged chiefly in promotion and scientific work. Remarkable results have come from such work in the enlargement of markets and productive capacity. So it was in the development of the automobile, which began as a more or less crude piece of machinery and now has achieved that unbelievable precision, which is seen in the quantity production of a Ford car. We have developed an almost unlimited plant capacity in all aspects of production. But in most of our large cities our arteries of traffic, our highways, have not kept up with our productive capacity. In a city like Chicago today, when I live, or in Washington, or New York, it has become practically impossible to drive a private car. I would, ordinarily, not think of driving a car from where I live, twenty miles out of Chicago, into Chicago. We have a tremendous capacity to produce cars, and to produce them efficiently and cheaply, so that anybody can buy a car, and yet the complication of the movement of these individually operated cars in any urban area is so great that it constitutes one of the chief limitations upon the further growth of the automotive industry.

As I take it, these trade practice rules do not deal directly with problems of production, the scientific aspects of increased precision, the problems of market extension. Rather they deal with the points where these cars meet each other or meet at the crossings; they deal with the development of the decencies of movement of automobiles along the highways; they deal with the problems of developing a standard of conduct in traffic which will perhaps become automatic. After all, the best code of ethics is that which is so thoroughly understood that its functioning has become unconscious through habit and custom. Nevertheless, some administrative control is desirable. In the administration of the Federal Income Tax Law we do not expect to go out and discipline everybody that files an income tax, although here and there a check may have to be made. Even though only one case in five thousand may be checked in detail, it may be just that use of the "spot check" which makes the whole thing work.

We have a certain group of trade practice rules that are like the ordinary decent rules of traffic necessary to permit automobiles to move at all on our modern congested highways. But the most important rules that we are working on, the best practices that we are trying to develop in the handling of the output of our unlimited productive and plant capacity are the rules that go farthest in the direction of prevention, those which eliminate grade crossings entirely, which permit the traffic to flow smoothly and automatically without any stop and go, any red and green lights whatsoever.

I believe rules like those recommending published prices are closely analogous to the elimination of the grade crossing, because they produce a practice where discrimination is eliminated at its inception. The more we can develop a procedure for eliminating the occasion for discrimination, eliminating the occasion for fraud and misrepresentation, the further we have gone in the smooth flow of commercial relationships.

No problem is more vital at the present time in American business, particularly in a period of depression such as we are now passing, than that of competitive relationships and methods. The trade practice movement as it aids in the development of a higher standard in this direction is distinctly in line with the best traditions of American business and American life. It is desirable that we permit individual business units so far as possible to continue in operation, to permit the individual American business man to continue his independent existence. If you do not raise the competitive standard and cooperate for the purpose of its administrative control, if you do not permit individuals to work out higher standards for individual competitive relationships, business will be inevitably driven into outright mergers and consolidations. The standards that we are working on in this field are the means of permitting the small and medium sized units to keep out of those morasses which are so often the breeding ground of more horizontal or vertical mergers and consolidations.

You will usually find that the biggest units of American business give the trade practice movement their sympathetic support, but that they are not the groups primarily responsible for or interested in the effective administration of the rules. The real burden must be assumed by those moderate-sized and smaller and average-sized units which desire to continue an independent existence in which their relationships to their competitors shall be sufficiently harmonious and based on sufficiently sound economic and legal principles as to avoid market demoralization and its consequences.

To return to my picture—The ideal of many independent units on our highways seems preferable to that of long chains of trailers, or railroad train operation. But in order to permit the smooth movement of a great number of small units, it is necessary to develop and administer a traffic code which permits all those units to flow along smoothly and harmoniously. So in our American business life the ideal of the independent operation of individual productive and distributive units, the ideal of cooperation in a free society of free men, is our standard and our goal. If we have developed high competitive standards and are able effectively to administer clear and intelligent principles of business inter-relationships and practice. The rules of trade practice codes, like our traffic codes, are one useful means to the end. The re-design of our commercial highways is another.

C. W. Sullburg & Son, contracting painters and decorators, will hold quarters at 734 Brown St., Heidelberg, announce the opening of a branch office at 709 Washington St., Santa Rosa.

H. L. Sweeney of Santa Barbara was the principal speaker at the regular monthly luncheon-meeting of the San Luis Obispo Builders' Exchange last Friday. He spoke on the necessity of organization and stressed the need of unified co-operation of members in a builders' exchange.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 717, 57 Post Street, San Francisco. (Phone Sutter 1884).

R-3535-S TEACHER of mathematics and surveying in a California Junior College. Preference will be given to a man who could also teach a 3 hour course in physics. Apply by letter. Location, Northern California.

R-3530-S MINE FOREMAN, experienced worker in heavy ground requiring square-set timbering. Must know how to handle men for efficient production. Quicksilver mining experience preferred. Salary \$200 month. Location, California. Headquarters, San Francisco.

W-2623-C-S (K-355) CHEMICAL ENGINEER for engineering company experienced in the sales of chemical machinery to establish branch office for the sale of chemical machinery. Persons with a following in their territories preferred. Straight commission basis. Apply only by letter. Locations, Middle-west, Far West and South.

R-3526-S CHEMIST, college graduate, American, 25-30 years old, for analytical work in oil refinery laboratory. Salary, \$24 month to start, working 5 days per week. Apply by letter. Location, Bay Region.

W-2625-S (K-354) ENGINEER, 35-45, who would act in an engineering capacity and be fully qualified for estimating, both tools and production. Should have had experience in job shops rather than in manufacturing plants, as he would have a better understanding of the problems involved. Should be a mechanical engineer with sufficient actual experience at the bench to thoroughly qualify him for the design of tools and dies for both short run and high production jobs. Should be thoroughly familiar with the various materials which must be used in this business and with the various forms in which these materials are available, and have sufficient business instinct to fit him for estimating work. Opportunity. Apply only by letter. Location, West.

W-1954-C-S SUPERINTENDENT of motive power for steam railroad. Must have had recent experience in such position with prominent American railroad. Salary, \$20,000-\$25,000 a year of which one-third to one-half will be paper rubles for living expenses. Balance in United States money to American bank. Contract for one year, renewable. Applications only by letter which will be forwarded to Moscow for decision. Location, Russia.

Paraffine Companies, Inc., has appointed as sales engineer E. A. Traferzer, formerly with the Celite Products Co. and the Johns-Manville Corp. in the Los Angeles district.

Water Works Manufacturers Association, through its exhibit committee, is planning to award a prize to the manufacturer who has the most constructive exhibit at the annual convention of the American Water Works Association to be held in Pittsburgh, Pa., May 25-29. The award will be decided by a vote of American Water Works Association members at the convention.

THE OBSERVER

What He Hears and Sees on His Rounds

An ordinance proposing to compel contractors to employ local labor and pay the prevailing wages on all public projects, failed to receive the endorsement of the Stockton Builders' Exchange. The proposed ordinance is being considered by the Stockton city council and the supervisors of San Joaquin county. Directors of the exchange termed the proposal "an American in principle" and declared the measure would work a hardship on contractors.

The New York Building Congress is giving serious consideration to the advisability of establishing an old-age pension and life insurance for the 125,000 building trade workers of the city. Murray H. Latimer, pension expert of Industrial Relations Counselors, Inc., is directing a survey of the situation in cooperation with a Congressional committee headed by Thos. Holden of F. W. Dodge Co.

Proposed public works for the year 1931 amounting to \$110,298,000 have been reported by California counties and municipalities to Will J. French, chief of the State Department of Industrial Relations. A check-up by the State unemployment committee of the volume of public works contemplated, shows that 29 counties and 127 municipalities, with a population of 4,903,967 have reported to the department. Counties and municipalities were urged by French to speed their public works programs in order to help alleviate the present unemployment situation.

One of two bills essential to construction of the San Francisco-Oakland bay bridge, passed the Senate last Tuesday without a dissenting vote. The bill, introduced by Senators Roy Fellom and Arthur H. Breed, authorizes the State Department of Public Works to take over the bridge after its completion.

By this "friendly gesture," according to State Highway Engineer Chas. H. Purcell, a lower interest rate may be obtained on the revenue bonds for construction of the bridge. This reduction, Purcell predicts, will save State motorists approximately \$750,000 a year.

The second measure authorizing a \$550,000 loan to complete final design was given a hearing before the Senate Finance Committee. The bill provides for a return of the loan at 4 per cent interest upon sale of the revenue bonds.

With this money available it will be possible to sell revenue bonds and start construction of the bridge within a year, according to Purcell and Colonel Walter Garrison, director of the State Department of Public Works. The bill was taken under advisement pending action on the budget bill. It is expected that it will receive the approval of the committee.

Laws providing for the licensing of contractors on public works and providing for the prequalifications of bidders on state highway work have been passed by the Legislature of Nevada and have been signed by Governor Balzar. The license law was signed March 31 and went into effect at once. In principle it follows the California law, but it applies only to contractors on public works doing jobs in excess of \$10,000. The fee for a license is \$200 and it is renewable

annually at a fee of \$100 a year. In case a license is allowed to expire without renewal, a new license must be obtained, for which the applicant must pay \$200.

The prequalification bill was signed by Governor Balzar March 31 and becomes effective 60 days from that date.

Reports of new orders for fabricated structural steel for the week ending March 21, 1931, were received from 101 establishments, whose capacity represented 33.8 per cent of the total capacity of all plants in the United States. The bookings reported by these establishments amounted to 10,483 tons, representing 30.9 per cent of the total capacity of the reporting establishments. Reports of shipments of fabricated structural steel for the same week were received from 97 establishments, whose capacity represented 33.1 per cent of the total capacity of all plants in the United States. The shipments reported by these establishments amounted to 17,325 tons, representing 55.0 per cent of the total capacity of the reporting establishments.

An involuntary petition in bankruptcy was filed against the Rount Lumber Company of Fresno by three creditors in the United States District Court at Los Angeles last Thursday. The petitioners alleged the company has debts in excess of \$1,000 and has committed acts of bankruptcy within the last four months.

Creation of a general state fund to improve grade crossings is recommended after a detailed study of the problem by the State Railroad Commission. No suggestion as to how the fund should be obtained is made. The commission also urges that efforts be concentrated on the most hazardous crossings. An expenditure of \$200,000 would be required to accomplish the necessary work.

The five-hour work day or two shifts of four hours each, as a solution for unemployment was urged by Colonel Nelson Spencer, member of the British Columbia Legislature from Vancouver.

Colonel Spencer's drastic proposal is especially significant because he is a leading conservative. He said the five-hour day can be generally applied without disturbing industrial conditions.

He suggested that the Dominion Government arrange with the President of the United States for a conference on the five-hour day.

A sub-contractor, who has had considerable experience on highway work, commends the action of the Alameda County Chapter, Associated General Contractors, in backing the suit of J. H. Fitzmaurice, Oakland cement contractor, who has started proceedings against A. P. Hanson, general contractor on the Hayward Memorial Building, for \$3100 damages. Fitzmaurice, as previously reported in these columns, claims to have entered into a written contract with Hanson to complete the cement work on the Hayward project and Hanson, upon being awarded the contract, informed Fitzmaurice that "he had made other arrangements" for the cement work.

Our sub-contractor friend, in a communication to the writer, says he has been in the same position many times and is looking for a way out. The sub-contractor, he writes, is in a position which is none too favorable at any time.

In a personal conversation with this sub-contractor the writer learned his figuring a project which cost him in traveling and hotel expenses something in the neighborhood of forty dollars. He figured the job for two concerns, one of these being awarded the contract. The other three failed to enter a bid.

Confident that he had landed the contract, inasmuch as he figured with the successful bidder, he was to "unless you can reduce your price very considerably, we cannot further consider your proposition."

"Just what is the way out he asks?" Probably a general contractor will take sufficient time to write his side of the story. Undoubtedly, other sub-contractors will write in their misfortunes in this regard.

We shall be pleased to receive all other.

Thirty-three sewer projects will be undertaken in various sections of Oakland if the \$1,300,000 sewer bond issue carries next month. A report covering preliminary surveys and estimates of cost has already been submitted to the city council by Walter N. Frickstad, city engineer.

A price war, said to have started in the Mid-Western states, is rapidly threatening to embroil the whole cement industry. It could not have broken out at a worse time. State highway departments, county and municipal governments are now receiving bids for seasonal requirements. Should the bulk of the year's cement output be covered by commitments made at present reprisal prices, the producers will have no opportunity to improve their position materially during the remainder of 1931. — (The Business Week).

With an amendment providing for a residence of one year in the city instead of six months, the ordinance providing that all contractors engaged in municipal work shall employ only qualified residents of the city was adopted unanimously by the Fresno city commission. The ordinance provides that any contract between the city of Fresno and the contractor is void if this clause is not observed.

TRADE LITERATURE

Rix "36" and Rix "34," portable compressors, known as the General Utility Units, are featured in an 8-page folder issued by the Rix Company, Inc., 460 Fourth St., San Francisco. The folder is illustrated and features specifications of the equipment pictured.

Hercules Pence Co., Ltd., of San Francisco, has been incorporated. Directors are E. F. Holloran, R. E. Tremoreux and A. W. Pioda.

Bay City Shovels, Inc., Bay City, Mich., has completed arrangements for the manufacture of its complete line in Canada by the John Inglis Co., Ltd., of Toronto. Sales of Bay City equipment in Canada will continue through the present Canadian distributor under the supervision of the home office at Bay City, Mich.

ALONG THE LINE

W. Todd, 59, former painting contractor of Fresno, died in San Jose on Friday, following a year's illness.

C. Fales, San Francisco civil engineer and formerly connected with Colusa Irrigation District, has filed application with the Alameda City Council seeking the appointment of a manager, which office will become vacant on April 20, when the resignation of Clifton E. Hickok becomes effective. Others who seek the position are: F. T. Hopkins, city engineer of Mason City, Ia.; Ralph J. Inatt, consulting engineer for the city of Los Angeles, and Col. S. E. Wiley, U. S. A., retired, of Chicago.

Clifton E. Hickok, who resigned as city manager of Alameda will become effective April 20, has been requested to submit his qualifications to the city council of Dallas, Tex., now engaged in considering possible appointees as the city's first city manager. The Dallas post will pay a salary of from \$10,000 to \$25,000 a year under the city's adopted council-manager system. John N. Ely, former city manager of Berkeley who recently resigned, already applied for the Dallas position, a similar post in Flint, Mich., position.

Ernest B. Townsend, 46, chief deputy county surveyor of Stanislaus county, died last Sunday following an extended illness. Townsend underwent a serious operation about a year ago and had suffered intermittently since then. His widow, three children, a sister and two brothers survive.

Pelton Water Wheel Co. of San Francisco, has appointed W. H. Holm general sales manager in charge of the sales distribution of all company products. Holm was formerly manager of the pump department.

Albert V. Heinrich, 52, electrical contractor of Niles, was found dead in a rooming house at Monterey last Sunday. He had a bullet hole through his temple.

John L. Vineenz was elected city commissioner of public works at the recent municipal election in Fresno.

L. E. Mueller, city engineer of St. Joseph for several years, has submitted his resignation to the city trustees. His successor will be appointed shortly.

Suit for \$4,671 in engineering fees has been filed against San Luis Obispo county by Charles E. Watt, engineer. Watt charges failure of the board of supervisors to go through with a contemplated street improvement project at Atascadero last year, for which he claims to have prepared. Work was ordered for the improvement Feb. 3, 1930, the engineer charges, but has never been carried out.

The Tuolumne mill of the Pickering Lumber Company is not likely to open this season and no logging operations, so far as the plant is concerned, may be attempted. This is the reported announcement of J. C. Rassenfuss, assistant manager for the Pickering Lumber Co. at Standard, after returning on a trip to Kansas City, the company headquarters.

TRADE NOTES

Soule Steel Co. announces appointment of T. H. Hensard as manager of the Portland, Ore., branch with headquarters at 1211 Linnton Road. The territory covered by the Portland office includes the entire state of Oregon.

W. D. Dunning, former sales manager of The Little River Redwood Co. of San Francisco, is now in charge of Southern California sales for Hammond and Little River Redwood Co., Ltd., with offices in the Los Angeles Chamber of Commerce Building.

C. V. Dorothy, credit manager of The Sacramento branch of W. P. Fuller & Company for the past five years, has been advanced to the position of credit manager for the Seattle branch of the firm, it is announced by Lester Wilkinson, Sacramento branch manager. R. L. Warren will assume Dorothy's position in the capitol city. Warren was formerly connected with the Fresno branch and will be succeeded there by J. C. Saunders.

W. H. Smith & Co., 1350 East Ninth St., Los Angeles, have been appointed California distributors for the Universal Cooler Corporation of Detroit, electrical refrigeration manufacturers.

Acme Building Material Co. has purchased the George Sanders Lumber yard at Yreka, Calif. The Acme concern is operated by George R. Pheneger of Bray, C. L. Clause, formerly of Bray and now of Lakeview, Ore., and Wilson Strawn, formerly of Laweview and the Sacramento valley.

HERE—THERE EVERYWHERE

Contra Costa County has adopted Ordinance No. 6, amending Ordinance No. 46, governing electrical inspection fee charges.

The Building Material Dealers' Club of Ventura County has been organized with Walter Riley of the Peoples Lumber Co., Oxnard, as president and O. D. Adams as secretary.

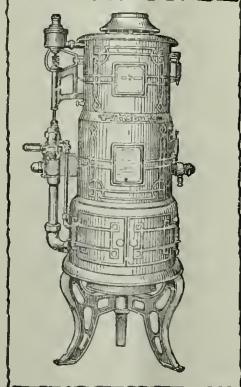
The annual convention of the Apartment House Association of California will be held at San Diego, September 10, 11 and 12.

Plans to establish a building material display room and office quarters for the Santa Rosa Builders' Exchange are being worked out. Wm. Herbert, Harry Huntington and W. J. Meeker comprise the committee which has the matter in hand.

The city council of Richmond, Calif., is considering adoption of an amendment to the plastering and electrical ordinances. Heretofore the bonds of plasterers and electricians were approved by the city council. The amendment gives the power of approval to the city manager and the city attorney.

Plant and yards of the A. W. Wells Lumber Company at Menominee, Mich., suffered a \$1,000,000 fire loss April 13. About 30,000,000 feet of lumber and 2,000,000 feet of saw logs were included in the loss.

According to word from Oklahoma City, the House of Representatives has passed a bill to provide for the establishment of a state cement plant, to be manned by prison labor.



A "Pittsburg" Automatic Water Heater installed in the Home indicates high quality throughout.

Recommended and specified by all the leading architects, plumbers and builders.

Consider the high merit of the Pittsburg coupled with "Pittsburg Perfect Service."

"Hot water quick as a wink."

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309 13th Street, Oakland 478 Sutter St., San Francisco

SEND FOR CATALOGS

Building News Section

APARTMENTS

Bids Opened—Held Under Advisement
APARTMENTS Cost, \$250,000
CALIFORNIA. Location Withheld.
 Six-story and basement class C steel
 frame, brick and concrete apart-
 ments (21 2- 3- 4- 6- 6- 7- and 8-
 room apts.)

Owner—Irma Downing, 212 S El Ca-
 mino, San Mateo.
 Architect—Willis Lowe, 354 Hobart
 St., Oakland.

Contract Awarded.
APARTMENTS Cost, \$14,200
MONTEREY, Monterey Co., Cal. Del
 Monte and Park Aves.
 Two-story concrete store and apart-
 ments (2 apts.)
 Owner—N. Mikel, 1104 Del Monte,
 Monterey.
 Architect—A. W. Story, Pajaro Valley
 Bank Bldg., Watsonville.
 Contractor—Fred McCrary, 606 Frem-
 ont, Monterey.

Plans Completed.
APARTMENTS Cost, \$40,000
SAN FRANCISCO. Fillmore and Jef-
 ferson Streets.
 Three-story and basement frame and
 stucco apartments (12 3- and 4-
 room apts.)
 Owner and Builder—Martin Muller 222
 2nd Avenue.
 Architect—R. R. Irvine, Call Bldg.
 Sub-bids will be called for shortly.
 Financing arrangements are now being
 made.

Plans Completed.
APARTMENTS Cost, \$—
SAN FRANCISCO. SW Gough Street
 and Broadway.
 Six-story and basement steel frame
 and concrete apartment building.
 Owner—Mrs. Jose Encinios, 135 Darien
 Way.
 Architect—H. C. Baumann, 251 Kearny
 Street.
 Owner will start taking segregated
 bids April 20th.

SANTA CRUZ, Santa Cruz Co., Cal.
 —See Banks, Stores and Offices, this
 issue.

Sub-Contracts Awarded.
APARTMENTS Cost, \$20,000
WATSONVILLE, Santa Cruz Co., Cal.
 Sudden Street.
 Two-story frame and stucco apart-
 ments (8 2-room apts.; Spanish
 type).
 Owner—A. Strazlich, Watsonville.
 Architect—A. W. Story, Pajaro Val-
 ley Bank Bldg., Watsonville.
 Contractor—J. A. Lechleiter, 230 Rod-
 rigues St., Watsonville.
Wiring—Just Rite Electric Co., Wat-
 sonville.
Lumber—Watsonville Lumber Co.,
 Watsonville.
Painting—William Reid, Watsonville.
Concrete and Reinforcing—Granite
 Construction Co., Watsonville.
 Other awards will be made shortly.

To Be Done By Day's Work.
APARTMENTS Cost, \$15,000
MARYSVILLE, Yuba Co., Cal. Capito-
 l Highway near D St Bridge.
 One-story frame apartment court (7
 three-room apts.)
 Owner and Builder—F. A. Lewis, %
 I. I. Putnam, Yuba City.
 Private plans.

BONDS

Bonds Defeated.
SCHOOL Cost, \$46,000
ARROYO GRANDE, San Luis Obispo
 Co., Calif.
 One-story elementary school.
 Owner—Arroyo Grande School Dist.
 Architect—Henry Smith and Albert
 Williams, Humboldt Bank Build-
 ing, San Francisco.

VENICE, Los Angeles Co., Cal.—
 Venice municipal improvement dis-
 trict will hold election April 24 at
 which time it is proposed to vote
 bonds in the sum of \$195,000 for the
 construction of a community audi-
 torium in Venice. Preliminary plans as
 prepared by the Los Angeles Play-
 ground and Recreation Department
 contemplate a Class A structure, sur-
 mounted by a four-story tower, pro-
 viding an auditorium with seating
 capacity of 2500.

CHURCHES

Plans Being Completed.
CHURCH Cost, \$20,000
SACRAMENTO, Sacramento Co., Cal.
 SW Thirty-ninth St. and Fourth
 Ave. (72x126-ft.)
 One-story reinforced concrete and
 stucco church (seat 250; tile roof).
 Owner—1st English Lutheran Church,
 Sacramento.
 Architect—Wm. E. Coffman, Forum
 Bldg., Sacramento.
 Bids will be taken in about 2 weeks.

Plumbing Contract Awarded.
PLUMBING, ETC. Cost, \$—
SAN FRANCISCO. Funston Avenue
 and Judah St. (St. Anne's Church)
 Plumbing, heating and ventilating for
 church.
 Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.
 Architect—Shea and Shea, 454 Mont-
 gomery Street.
Plumbing—Dowd & Welch, 3558 16th
 Street, \$3,953.
 Bids will be taken in one week on
 heating, ventilating and electrical
 work.

Contract Awarded.
CHURCH Cost, \$5000
WATSONVILLE, Santa Cruz Co., Cal.
 E Lake and Jefferson Sts.
 One-story frame and stucco church
 (to seat 150; Spanish style).

SKILSAW Portable Electric Hand
 Saws (4 models).

SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attach-
 ments.

SYNTRON Portable Electric Ham-
 mers (4 models, motor-
 less).

MALL Flexible Shaft Machines (50
 models).

Electric Drills, Grinders, Buffers,
 Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electro
 Tools.

1248 Mission St. **UNDERHILL**
 San Francisco 7622
SALES . SERVICE . RENTALS

Owner—First Church of Christ Sec-
 list.

Plans by Owner.
 Contractor—Timothy & Hunter, P.
 Box 551, Watsonville.
 Church officials at present are: M
 Florence LaFrenaye, first reader; M
 Frank L. Proctor, second reader;
 L. Proctor, treasurer; Mrs. Nina Er-
 no, clerk, and LeBerte Kirkland, pre-
 sident of the board. Other members
 the board of directors are Mrs. Mol
 Williamson and Mrs. LaFrenaye.

Low Bidder On Plumbing.
PLUMBING, ETC. Cost, \$—
SAN FRANCISCO. Funston Avenue
 and Judah St. (St. Anne's Church
 Plumbing, heating and ventilating
 1 church.

Owner—Roman Catholic Archbishop
 San Francisco, 1100 Franklin S
 Architect—Shea & Shea, 454 Mon-
 gomery Street.
 Low Bidder—Dowd Welch, 3558 16
 St., \$3,953.

Bids will be taken in two weeks
 heating, ventilating and electric work

Site Purchased—Construction Contem-
 plated.
CHURCH Cost, \$—
SACRAMENTO, Calif. NW 24th a-
 O Streets.

Owner—Sutter Branch of Church
 Jesus Christ of Latter Day Saint
 % Red Men's Hall, 21st and L St
 Sacramento.

Architect—Not selected.
 Construction of this structure w-
 not be undertaken for at least a year
 it is announced by Neils S. Jensen
 president of the Sutter branch.

Completing Plans.
CHURCH Cost, \$25,0-
NAPA, Napa Co., Cal. SE Third ar-
 Pachett Streets.
 Reinforced concrete church.
 Owner—Episcopal Church, Napa.

Architect—C. Leroy Hunt, Napa.
 Bids will be taken in about 10 day
 W. C. Kelg, Napa, is chairman
 the building committee.

Furniture Contract Awarded.
CHURCH Cost, \$50,00
SAN MATEO, San Mateo Co., Cal
 Fulton and Ellsworth Avenues.
 One-story frame and stucco church
 with tile roof (auditorium to seat
 350; Mission type).

Owner—First Congregational Church.
 Architect—Kent & Hayes, 525 Mark
 St., San Francisco.

Contractor—H. H. Larson and Co., 6
 South Park, San Francisco.

Home Mfg. Co., 552 Erannan Street
 San Francisco, at \$5600 awarded con-
 tract for installation of pews, chancel
 furniture, fittings and wall paneling.
 As previously reported, plumbing
 awarded to J. H. Pinkerton, 927 How-
 ard St., San Francisco; mill work to
 S. H. Chase Lbr. Co., 547 W. San
 Clara, San Jose; lumber to Sune
 Lumber Co., 400 High St., Oakland
 heating to Frank J. Klamm, 456 Ell
 St., San Francisco; miscellaneous iron
 to Sullivan Iron Works, 780 Brannan
 St., San Francisco.

FACTORIES AND WARE- HOUSES

Owner Taking Bids From A Selected
 List of Contractors.
BUILDING Cost, \$10,000

SAN FRANCISCO. Potrero Ave. and Division St. ne-story frame and stucco building. Owner—Gunn, Carle & Co., 44 Market Street. Architect—H. I. Winner Co., 550 Market Street.

Contract Awarded—Sub - Bids Being Taken. Cost, \$20,000

ADDITION. SAN FRANCISCO. 353 Brannan St. wo-story steel frame and brick addition to warehouse.

Owner—San Francisco Warehouse, 625 Third Street. Engineer—Ellison and Russell, Pacific Building.

Contractor—Barrett & Hill, 918 Harrison Street.

Sub-bids are wanted on brick work, electric wiring, plumbing, structural steel, concrete, elevators, glass, sheet metal, painting, plastering, steel sash, roofing, and hardware and miscellaneous iron.

Completing Plans. LABORATORY Cost, \$—

LOS ANGELES, Cal. Gower Street and W. 10th Avenue.

Waterproof Class A reinforced concrete laboratory (82x140 feet).

Owner—RKO Studios, 780 Gower St., Los Angeles.

Architect—Eng. Dept. of Owner (Charles Decker in charge).

Completing Plans. ALTERATIONS Cost, \$11,000

SAN FRANCISCO. San Francisco Hospital, 23rd St. and Potrero Ave. remodel laundry.

Owner—City and County of S. F. Architect—Bureau of Architecture (Mr. Sawyer), City Hall.

Bids will be called for shortly.

WOODLAND, Yolo Co., Cal.—H. C. Schrader, general manager of the Jacob W. Bird Co., Manufacturers of deep well pumps, which concern is about to be backed by Oakland capital, announces the company will erect a frame and corrugated iron plant on a site yet to be selected in Doodland.

Bids Opened. BAKERY Cost, \$—

SAN FRANCISCO. Block bet. Howard, Folsom, 13th and 14th Sts.

One-story brick bakery.

Owner—Peerless Bakery, 72 Edie St.

Architect—E. Neumarkel, 544 Market Street.

Low Bidder—J. D. Hannah, 251 Kearny Street.

Others who submitted bids are as follows: Samuel Schell, Chas. Koenig, Henry Grieb, Maser Bros.

Low bidder held under advisement.

SAN FRANCISCO.—Plant of Western Box and Excelsior Co., 650 Brannan St., suffered a \$25,000 fire loss April 9.

Contemplated. SUGAR PLANT Cost, \$2,000,000

LOS ANGELES, Cal. Location not selected.

Sugar refining plant.

Owner—International Sugar Co., 637 Battery St., San Francisco.

Architect—Not Selected.

More definite information will be given in about 30 days. Negotiations are under way for a site.

Plans Being Prepared. SHED Cost, \$100,000

SAN FRANCISCO. Pier No. 23.

Reinforced concrete and steel frame shed.

Owner—State of California (Harbor Commission).

Engineer—Frank White, Ferry Bldg., San Francisco.

Bids will not be called for four or five months.

DELANO, Kern Co., Cal.—Independent cotton gin, destroyed by fire last year, will be rebuilt on the site of the old building.

Bids Opened. SUPERSTRUCTURE Cost, \$—

OAKLAND, Cal. Foot of Webster St. Superstructure for Inland Waterways Terminal (exclusive of structural steel).

Owner—City of Oakland (Port Commission), 424 Oakland Bank Bldg., Oakland.

Plans by Eng. Dept. of Owner. Will be sheet-iron construction with 20-year guaranteed roof; 97x230-feet, with 20-ft. side hall clearance. Plans obtainable from office of secretary.

Following is a complete list of bids:

R. W. Littlefield, 337 17th St., Oakland.....	\$25,789
A. F. Anderson, Oakland.....	27,772
Strehlow & LaVoie, Alameda.....	27,771
Wm. Spivock, San Francisco.....	28,024
H. J. Christensen, Oakland.....	28,167
J. E. Petersen, Oakland.....	28,453
George Swannstrom, Oakland.....	28,883
Macdonald & Kahn, S. F.....	29,229
David Nordstrom, Oakland.....	29,530
Emil Person, Oakland.....	29,838
Schuler & McDonald, Oakland.....	29,900
Sullivan & Sullivan, Oakland.....	29,998
E. T. Lesure, Oakland.....	30,490
Jacobs & Paltiani, Oakland.....	31,400
E. T. Leiter & Son, Oakland.....	31,500
Niles W. Place, Oakland.....	32,500

Bids held under advisement.

Detail Plans Approved—To Ask Bids Shortly. WAREHOUSE Cost, \$—

OAKLAND, Alameda Co., Cal. W 14th Street Pier.

One-story steel frame warehouse (518 x 100-ft., Warehouse AA).

Owner—City of Oakland (Port Commission), Oakland Bank Bldg., Oakland.

Lessee—Rosenberg Eros, Third and Bancroft, Oakland.

Plans by Eng. Dept. of Owner. Steel frame and wooden girts and studs, galvanized iron covering, concrete floor on earth flooring.

Contract To Be Awarded. WAREHOUSE Cost, \$40,000

SACRAMENTO, Sacramento Co., Cal. J Street bet. 4th and 5th.

Three-story and basement steel frame and brick warehouse and factory.

Owner—Van Voorhies-Phinney, 322 J St., Sacramento.

Architect—W. E. Coffman, Forum Bldg., Sacramento.

Contractor—I. C. Boss, 2615 K Street, Sacramento.

FLATS

Sub-Contracts Awarded. FLAT Cost, \$10,000

SAN FRANCISCO. Twenty-fifth Ave. bet. Irving Street.

Two-story and basement frame and stucco apartments and flat (two 3-room apts. and one 7-room flat)

Owner and Builder—C. L. Borsi, 171 Highland Street.

Architect—E. E. Young, 2002 California Street.

Lumber—Christenson Lumber Co., 5th and Hooper Sts.

Mill Work—J. Hart, Jerrold and Napoleon Streets.

Plumbing and Heating—H. E. Mallis, Brick Work—F. A. John, 2822 Bush St.

Hardware—G. B. Jackson & Sons, 1929 Irving Street.

Concrete and Terrazzo Steps—D. Seghieri & Co., 35 Cook St.

Grading—Devenenzi & Co., 150 Collins Street.

Steel Beams—Mortenson Const. Co., 608 Indiana Street.

Stairs—Parsons & Ode, 1215 Gray St. Ornamental iron—Sunset Iron Works, 964 Harrison St. Ornament Cement—E. A. Knotts, 650 27th Avenue.

GARAGES AND SERVICE STATIONS

To Take Bids In One Week. SERVICE STATION Cost, \$9000

VALLEJO, Solano Co., Cal. Sonoma and Ohlo Streets.

Steel super service station. Owner—General Petroleum Co., 310 Sansome St., San Francisco.

Plans by Eng. Dept. of Owner.

Plans Being Prepared. SERVICE STATION Cost, \$8000

SAN FRANCISCO. Fulton Street and Arguello Blvd.

Super service station. Owner—General Petroleum Co., 1924 Broadway, Oakland.

Plans by Eng. Dept. of Owner. Bids will be called for shortly.

Contract Awarded. HANGAR, ETC. Cost, price, \$52,458

SACRAMENTO, Sacramento Co., Cal. Municipal Airport.

Steel frame and wood hangar and air terminal station.

Owner—City of Sacramento, H. G. Denton, city clerk.

Architect—Starks & Flanders, Forum Bldg., Sacramento.

Contractor—Campbell Const. Co., 800 R St., Sacramento.

NORTH SACRAMENTO, Cal.—J. L. Nealon, said to be of San Francisco, will let a contract shortly to erect a modern auto camp in Auburn Blvd. near 12th St. involving individual auto apartment group, service station and store building. The cost is estimated at \$15,000.

Contract Awarded. GARAGE Cost, \$—

WINTERS, Yolo Co., Cal. One-story brick garage, 60x110-ft.

Owner—Edward Graf, Winters. Private plans.

Contractor—J. G. Motroni, Woodland.

GOVERNMENT WORK AND SUPPLIES

Sub-Bids Wanted. HOSPITAL Cost, \$—

SALT LAKE CITY, Utah. Veterans' Hospital, comprising Main Building No. 1, one garage and Attendants' Quarters No. 2, including roads, walks, grading and drainage.

Owner—U. S. Government. Plans by Construction Division, U. S. Veterans' Bureau, Arlington Bldg., Washington, D. C.

L. Hecht, care of U. S. Fidelity Co., 240 Pine Street, San Francisco, representing and Eastern construction firm, desires sub-bids on all portions of the work in connection with above, for which general contract bids are to be opened April 30th, 2:30 P. M. in Washington.

MARCH FIELD, Riverside Co., Cal.—C. T. and W. P. Stover, 116 Alexander Ave., Claremont, awarded contract at \$101,547 by Col. W. C. Garden-

shire, constructing the erection of two sets of field officers' quarters, eight sets of company officers' quarters and ten garages at March Field. Award was based on main bid of \$100,657 plus \$50 for linoleum floor covering. Each of the quarters will contain eight rooms and three bathrooms; hollow block construction with clay tile roofing and stucco exteriors.

OAKLAND, Cal.—Jas. L. McLaughlin Const. Co., general contractors, 251 Kearny St., San Francisco, desire sub-bids in connection with the Oakland Post Office, for which general bids are to be opened May 5 at Washington.

OAHU, T. H.—Following is a partial list of prospective bidders for development of the Naval Ammunition Plant at Oahu, T. H., bids for which will be opened by the Bureau of Yards and Docks, Navy Department, Washington, D. C., June 17, under Specification No. 6101. The project covers the construction of 131 buildings, approximately 11½ miles of railroads, 14½ miles of paved roads and electrical telephone and water supply systems. The following will enter into the work: Concrete construction, steel windows, metal doors, marble and tile work, composition floors, wood framing and finish, structural steel, asbestos shingle, steel, insulated and lightning protection and plumbing and electrical work:

Macdonald & Kahn, Financial Center Bldg., San Francisco.

Minneapolis Steel & Machinery Co., Chapman Bldg., Los Angeles.

Newbery Electric Co., 726 S. Olive St., Los Angeles.

A. W. Quist Co., Exchange Bldg., Seattle.

Orndorff Const. Co., 437 S. Hill St., Los Angeles.

Guy F. Atkinson, Russ Bldg., San Francisco.

Karl S. Koller, Crockett, Calif.

Thos. Haverty Co., 316 E. 8th St., Los Angeles.

Fire Protection Products Co., 1101 16th St., San Francisco.

Campbell Bldg. Co., Salt Lake City.

Grace Bros. Co., 6630 McKinley St., Los Angeles.

E. T. Thurston, 67 Post St., San Francisco.

David H. Ryan, San Diego.

Kenneth Colburn, Pasadena.

Plans for this work are obtainable from the Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, and are on file in the office of naval districts at Seattle and New York City.

SAN FRANCISCO—Until April 23, under Circular No. 76, bids will be received by Signal Section, General Depot, Presidio, to furnish and deliver 40 capacitor, 12 switchboard keys, 60 lbs. lead rod pure, 12 telephone switchboard relays, 15 gro. wood screws and 80 soldering irons. Specifications obtainable from above.

SAN FRANCISCO—Until April 21, under Circular No. 136, bids will be received by U. S. Engineer Office, Customhouse, San Francisco, to furnish and deliver 104 tons rails, 1200 lbs. track bolts, 7600 lbs. railroad spikes and 360 prs. splice bars. Specifications obtainable from above.

OAKLAND, Cal.—As previously reported, bids will be received by Supervising Architect, Treasury Department, Washington, D. C., May 5, to erect postoffice at Oakland. Following is a partial list of the prospective bidders on this work:

Geo. Petersen, 1814 Bancroft Ave., San Leandro, Calif.

DeVault-Crick, Inc., Canton O.

Clinton Construction Co., San Francisco.

Ring Construction Co., Minneapolis, Minn.

Siems-Helmets, Inc., 1014 Guardian Building, St. Paul, Minn.

A. M. Lundberg, St. Louis, Mo.

Orndorff Construction Co., 437 E. Hill St., Los Angeles, Calif.

Macdonald & Kahn, Financial Center Building, San Francisco.

Errett & Hilp, 918 Harrison St., San Francisco.

K. E. Parker Co., 135 S. Park St., San Francisco.

Wm. Macdonald Construction Co., St. Louis, Mo.

Mnson Bros., 475 6th St., San Francisco.

Clinton Construction Co., 923 Folsom St., San Francisco.

Schuler and McDonald, Inc., 1723 Webster St., Oakland, Calif.

Vogt & Davidson, Call Bldg., San Francisco.

L. Balkin Co., 1850 W. Austin Ave., Chicago.

Robert E. McKee, Los Angeles.

Festa, Landino & Scurto, 317 Hancock St., Boston.

Cahill Bros., 206 Sansome St., San Francisco.

H. L. Peterson & Co., 731 Treat St., San Francisco.

Dinwiddie Construction Co., Crocker Bldg., San Francisco.

Shepard Elevator Co., 2413 Colerian Ave., Cincinnati.

SAN FRANCISCO—Until April 27, 11 a. m., bids will be received by Constructing Quartermaster, Fort Mason, for repairs to wire fences at Fort Miley. Specifications obtainable from above.

BOULDER CITY, Nev.—Until April 28, 2 P. M., under Specification No. 519-D, bids will be received by the U. S. Bureau of Reclamation, Las Vegas, Nevada, to construct telephone line between Boulder City and the Hoover Dam Site, Boulder Canyon Project. The line will be approximately 6½ miles long and will consist of a two-wire line, supported by butt-treated timber poles with one 10-pin cross arm. Material will be furnished by the Government.

Sub-Bids Wanted.

HOSPITAL Cost, \$—

SALT LAKE CITY, Utah.

Veterans' Hospital, comprising Main Building No. 1, one garage and Attendants' Quarters No. 1, including roads, walks, grading and drainage.

Owner—U. S. Government.

Plans by Construction Division, U. S. Veterans' Bureau, Arlington Bldg., Washington, D. C.

Ryberg-Sorensen, Inc., 206 Electric Railway Bldg., Salt Lake City, general contractors, desire sub-bids in connection with above, for which general contract bids are to be opened April 30, 2:30 P. M. in Washington.

SAN FRANCISCO—Until April 24, 11 A. M., bids will be received by Construction Quartermaster, Fort Baker, for wharf repairs at Fort Baker.

LOS ANGELES, Cal.—The Long Beach Board of Harbor Commissioners has authorized Major R. G. McGlone, manager of the harbor department, to prepare preliminary plans for a new administration building. The structure will provide quarters for the department and the United States immigration office and customs offices. A site has not been selected. Cost, \$90,000.

Plans Forwarded to Washington For Approval.

MESS HALLS, ETC. Cost, \$48,000

SAN LUIS OBISPO, San Luis Obispo Co., Cal. National Guard Camp.

9 combination mess halls and kitchens, bath houses and tent floors.

Cwner—State of California (Adjutant General, Sacramento, in charge), State Bldg., Sacramento.

Private Plans.

Bids will be called for shortly.

SAN FRANCISCO—Until April 20, 11 A. M., bids will be received by the Constructing Quartermaster, Fort Mason, for alterations to hot water heating system in the Commanding General's Quarters No. 1 at Fort Mason. Specifications obtainable from above.

SACRAMENTO, Cal.—See "Power Plants," this issue. Bids wanted by U. S. Engineer Office, Sacramento, for one automatic electric generator

plant, gasoline driven, 1500 watts capacity at 100 volts direct current.

SACRAMENTO, Cal.—Until April 21, 3 p. m., under Order No. 3182, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver miscellaneous castings. Specifications obtainable from above office.

BOULDER CITY, Nevada—U. S. Bureau of Reclamation, Las Vegas, has completed plans and will advertise for bids shortly for the construction of additional buildings at Boulder City. Program calls for the erection of a town hall, school, garage, dormitory and guest house, auditorium, administration building and 75 cottages for employees, comprising five 6-room, nineteen 5-room, twenty-five 4-room and twenty-five 3-room cottages. Fifty small garages and a swimming pool will also be built. Common brick in hollow wall construction or hollow tile will be used with stucco exteriors and clay tile roofing.

SAN FRANCISCO—Following bids received April 13, 1931, under advertisement by Constructing Quartermaster, Fort Mason, to furnish and install magna sectional pipe covering for heating plant at Fort McDowell:

Tilly Manufacturing Co., (a) 5-in. pipe covering, \$ 42; (b) 6-in. covering, \$ 28; (c) labor for installing, \$ 12.

Jones Bros. Asbestos Supply Co., (a) \$ 36; (b) \$ 24; (c) \$ 10.

Piant Rubber and Asbestos Co., (a) \$ 33; (b) \$ 22; (c) \$ 10.

Asbestos Co. of California, (a) \$ 37; (b) \$ 27; (c) \$ 10.

Western Asbestos Magnesia Co., (a) \$ 39; (b) \$ 26; (c) \$ 18.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Department, Washington, D. C., to furnish and deliver as noted in the following schedules, for the information being available from the Navy Purchasing Office, 100 Harrison St., San Francisco:

Bids Open April 28

Seattle, 1 motor-driven drilling machine; sch. 5433.

Western yards, friction and insulating tape, rubber; sch. 5471.

Mare Island, 153,000 lbs. galv. sheet steel; sch. 5510.

Puget Sound, 4000 loofa sponges; sch. 5488.

Western yards, window and plate glass; sch. 5472.

Western yards, wire rope and seizing strand; sch. 5473.

Western yards, magnesia pipe covering, block plaster, asbestos mill-board, felt and paper, asbestos; sch. 5474.

Mare Island, 36,000 lbs. black medium steel; sch. 5514.

Western yards, spark plugs; sch. 5527.

Western yards, refrigerating plants and spares; sch. 5533.

Western yards, hair felt; sch. 5528.

San Francisco, 1 motor-driven milling machine; sch. 5524.

Western yards, white oak; sch. 5517.

Mare Island, 1 motor driven boring, drilling and milling machine; sch. 5500.

Mare Island, 1 electrically-operated belt bearing cutoff saw; sch. 5501.

Mare Island, 30 portable electric refrigerators; sch. 5562.

Puget Sound, 15,500 ft. b. m. stage planking; sch. 5520.

Bids Open May 5

San Francisco, 1 motor-driven sliding head drill press; sch. 5533.

San Francisco, 1 motor-driven engine gap lathe; sch. 5540.

BOULDER CITY, Nevada—Lewis J. Bowers, 2250 S. Main St., Salt Lake City, and W. W. Dickerson, Lehi,

Utah, have been recommended by R. F. Walter, chief engineer of the Bureau of Reclamation, Denver, for award of contract for the construction of twelve dwellings at Boulder City in accordance with bids opened by the bureau on March 13. Each contractor will erect six dwellings. They will be of brick hollow wall construction with 4-inch air space, stucco exteriors, plastered interiors and clay tile roofing.

SEATTLE, Wash.—See "Hospitals" this issue. Bids wanted by Supervising Architect, Treasury Department, Washington, D. C., to erect Marine Hospital at Seattle.

SACRAMENTO, Cal.—Until April 21, 5 P. M., under Circular Proposal No. 31-288, Order No. 3123, bids will be received by U. S. Engineer Office, California Fruit Bldg., for drydocking, painting and repairing the U. S. Snagboat "Yuba." Specifications and further information obtainable from above.

HALLS AND SOCIETY BUILDINGS

Plans To Be Prepared.

LODGE BLDG. Cost, \$—
PETALUMA, Sonoma Co., Cal. Location not yet selected. Fireproof lodge building. Owner—Fraternal Order of Eagles, Petaluma Lodge. Architect—Not Selected.

It is understood that officers from the State Lodge will visit the Petaluma Lodge shortly with a view to outlining a definite plan of procedure in connection with the project.

Preparing Working Drawings.
MEMORIAL Cost approx., \$20,000
VACAVILLE, Solano Co., Cal. One-story and basement Veterans' Memorial Building. Owner—County of Solano. Architect—Kent & Hass, 525 Market St., San Francisco.

Plans will be approved May 4th, and bids will probably be advertised after that date.

HOSPITALS

NOGALES, Ariz.—Sunset Rose Haven, Ltd., Dr. Chas. N. Greusel, chief physician, San Bernardino, has purchased the Hotel Esplanor property at Nogales, Ariz., and will convert the hotel into a sanitarium. New owner proposes remodeling building, including installation of an elevator and treatment rooms in the basement, and constructing 26 cottages on the site. The hotel is a two-story, brick structure and was erected in 1927. Architects Cray Taylor and Ellis Wing Taylor, 803 W. Third St., Los Angeles, are the architects for the project.

Sub-Contracts Awarded.
ADDITION Cost, \$30,000
SAN FRANCISCO, 27th and Valencia Streets.

Two-story steel frame cafeteria addition.

Owner—St. Luke's Hospital, premises. Architect—George Kelham, 315 Montgomery Street.

Contractor—Chas. Stockholm & Sons, Russ Bldg.
Plumbing and Heating—O'Mara and Stewart.

Electric Work—Central Electric Co., 179 Minna St.

Mill Work—Pacific Mfg. Co., Monadnock Bldg.

Brick Work—Reed & Reed, Hearst Bldg.

As previously reported, structural steel awarded to Schrader Iron Works 1247 Harrison St.; terra cotta to Glad-

ding, McBean & Co., 660 Market St.

Other awards will be made shortly.

Bids Opened.

ADMINISTRATION BLDG. Cost \$—

TEHACHAPI, Kern Co., Cal.

Administration building and cottages for California Institution for Women.

Owner—State of California.

Plans by State Department of Public Works, Division of Architecture,

Geo. B. McDougall, state architect

Public Works Bldg., Sacramento.

The buildings are two stories with concrete floors and walls, concrete

and tile partitions, wood roof construction and tile roof.

The Administration Building has a

total floor area of approximately 20,-

500 square feet.

The cottages, two of which are in-

cluded in this contract, has a floor

area of approximately 10,500 sq. ft.

Following is a complete list of bids:

General Work

Wm. Rohlfacher, Santa Ana.....\$124,550

Andy Sordahl, Long Beach.....134,424

Escherich Bros., Los Angeles.....133,690

H. Mayson, Long Beach.....143,673

C. Haverland, Long Beach.....143,945

L. E. Dixon, Los Angeles.....144,300

The Milton Co., Mt. View.....144,567

A. Geisler, Los Angeles.....145,492

Nead Const. Co., Wilmington.....152,364

Currie & Dulgur, Bakersfield.....155,590

R. J. Chute, Los Angeles.....157,380

Pezzo Const. Co., Los Angeles.....157,975

E. T. Leiter, Oakland.....187,000

Easton & Nesser, Los Angeles.....190,000

(Electric (Three Low)

R. R. Jones Electric Co., 1124

Fair Oaks, Pasadena.....\$6,800

Kuster Wetzel.....6,890

Safeway Elec. Co., Los Angeles, 7,234

Heating & Ventilating (Three Low)

Hickman Bros., 819 B Anaheim

St., Long Beach.....\$28,361

Jones Heating Co., Los Angeles 28,637

F. B. Jones, Los Angeles.....28,862

Plumbing (Three Low)

Thos. Haverly, 316 E 8th St.,

Los Angeles.....\$17,105

F. B. Jones, Los Angeles.....17,374

American Engineers & Contrac-

tors, Ltd., Los Angeles.....17,659

Munger & Munger, Pasadena, sub-

mitted lowest bid on plumbing, heat-

ing and ventilating (combined bid), at

\$15,471.

Bids held under advisement.

Plans Being Figured—Bids Close May

5, 2 P. M.

GARAGES, ETC. Cost, \$—

AGNEW, Santa Clara Co., Cal. State

Hospital Grounds.

Two two-story concrete Employees'

Quarters and one-story concrete

garages.

Owner—State of California.

Plans by State Department of Public

Works, Division of Architecture,

Public Works Bldg., Sacramento.

Employees' Quarters will consist of

two buildings and separate garages,

having concrete exterior walls, wood

partitions, wood floor and roof con-

struction and tile roof. Garages will

be one-story with concrete walls and

floor, wood roof construction and tile

and composition roof. Employees'

quarters will have floor area of ap-

proximately 10,000 sq. ft. each and the

garages a floor area of approximately

4,100 sq. ft.

Separate bids will be considered for:

(1) general work and alternate, em-

bracing all branches of construction

other than plumbing, heating and

electrical; (2) electric work and alternate;

(3) plumbing work and alternate;

(4) heating work and alternate;

(5) combined plumbing and heating

work and alternate. An alternate bid,

affecting the general, electrical,

plumbing and heating work and alternate.

Plans Being Figured.

ADDITION Cost, \$400,000

LOS ANGELES, Cal. No. 2301 Belle-

vue Avenue.

Ten-story steel frame and reinforced

concrete hospital addn. (99 rooms)

Owner—Queen of Angels Hospital,

Premises.

Architect—Albert C. Martin, Higgins

Bldg., Los Angeles.

Reinforced concrete walls and floor

and roof slabs, plastered and terra

cotta exterior, marble and tile work,

steam heat, tile and composition roof-

ing, steel sash, fire escapes.

Grading Contract Awarded.

WARD BLDGS. Cost, price, \$324,400

SAN FRANCISCO, Relief Home Tract

Two class A ward buildings (Wards K

and L).

Owner—City and County of San Fran-

cisco.

Architect—Hyman and Appleton, 68

Post Street.

Contractor—Anderson & Ringrose, 320

Market Street.

Grading—L. Devincenzi & Co., 148

Blake Street.

As previously reported, mechanical

equipment awarded to Scott Co., 243

Minna St.; plumbing to Turner Co.,

323 Tehama St.

Contracts Awarded.

DORMITORY Cost, \$—

SAN LUIS OBISPO, San Luis Obispo

Co., Cal.

Two-story concrete boys' dormitory

(floor area 7000 sq. ft.)

Owner—State of California.

Plans by State Department of Public

Works, Division of Architecture,

Geo. B. McDougall, State Archi-

tect, Public Works Bldg., Sacra-

mento.

General Work

Wigg Const. Co., Redondo Beach,

Calif., \$23,195.

Plumbing

American Engineers & Contractor,

Ltd., Los Angeles, \$3,169.

Heating

W. A. Aschen, 3000 E 16th Street,

Oakland, \$2,629.

Electrical Work

California Electric Co., Santa Bar-

bara, \$1,164.

Plans Being Figured—Bids Close May

18, 3 P. M.

HOSPITAL Cost, \$1,600,000

(exclusive of equipment and fur-

nishings).

SEATTLE, Wash. Beacon Hill.

Class A concrete and steel Marine

Hospital (320-bed capacity, stone

and terra cotta trim).

Owner—U. S. Government.

Architect—John Graham and Bebt &

Gould, associates, Dexter - Horton

Bldg., Seattle.

Bids are wanted for all work except

elevators, dumb waiters, and lighting

fixtures. The tower will be 16 stories

in height with wings seven stories in

height. The north half the main

building will be 13 stories and the

south half 11 stories. This is due to

the slope of the site. The structure

will be 25x135 in ground area.

HOTELS

Construction Indefinitely Postponed.

ALTERATIONS Cost, \$35,000

SAN FRANCISCO, No. 660 Bush St.

Alter apartments for hotels.

Owner—Progressive Tracing Co., Mat-

son Bldg., San Francisco.

Engineer—John G. Little & Co., 251

Kearny St., San Francisco.

Contractor—Anderson & Ringrose, 320

Market St., San Francisco.

Contract Awarded.

HOTEL Cost, \$750,000

YAKIMA, Wash. Yakima Avenue and

S Fourth St.

Fifteen-story and basement lass A

150x130-ft. hotel (225 rooms with

baths).

Owner—Naches Hotel Co. (J. G. von

Herberg, Seattle, president).

Architect—Henry Bittman, Securities Bldg., Seattle.
 Contractor—Howard S. Wright & Co., 2210 Second Ave., Seattle.

Preliminary Plans Being Prepared.
HOTEL Total Cost, \$972,000
 Reno, Nevada.
 Nine-story and basement reinforced concrete hotel & store (226 rooms), to include seven 5-room apts. in addition to 37 hotel guest rooms, together with smaller apartments)
 Owner—Ambassador Hotel-Apts., Ltd. (R. Carpenter, president, Hotel Nevada, Ely, Nev.)
 Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.

POWER PLANTS

SISKIYOU COUNTY, Cal.—California and Oregon Power Co., 58 Sutter st., San Francisco, seeks permit from Federal Power Commission to construct a 160-foot power dam on the Klamath River, near the mouth of Brush Creek, in Siskiyou county. Capacity of plant will be 14,000-hp.

OAHU, Hawaii—See "Government Work and Supplies," this issue, Bureau of Yards and Docks, Navy Department, Washington, D. C., taking bids for development work in connection with the Naval Ammunition Depot at Oahu, Hawaii, involving the erection of 131 buildings, approximately 1 1/2 miles of railroads, 14 1/2 miles of paved road and electrical, telephone and water supply systems.

LOS ANGELES, Cal.—Until 11 A. M., April 30, bids will be received by the city purchasing agent, Thomas Oughton, to furnish constant current regulating transformers under Specification No. 2414 f. o. b. warehouse of department of water and power, 1630 N. Main St. In lieu of f. o. b. department's warehouse bids will be accepted f. o. b. bidder's shipping point with full freight allowed to point named above. The items are:

- (1) two 5 K. W. "Subway Type" constant current transformers;
- (2) four 25 K. W. "Subway Type" constant current transformers;
- (3) one 3 K. W. "Pole Type" constant current transformer;
- (4) one 3 K. W. "Subway Type" constant current transformer;
- (5) four 20 K. W. "Subway Type" constant current transformers;

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

LOS ANGELES, Cal.—Los Angeles library commissioners have requested the city council to submit a \$1,000,000 bond issue at the May primaries for the construction of new branch libraries and enlargement of existing branches. It is not likely the proposition will be carried on the primary ballot, but it may be submitted at the June election.

FRESNO, Fresno Co., Cal.—City rejects proposal to issue bonds of \$750,000 to finance purchase of lands necessary for a civic center. The vote was 5407 in favor and 6447 against. A two-thirds majority was required.

Preparing Working Drawings.
FIRE HOUSE Cost, \$45,000
 Lombard Street bet. Broderick and Baker.
 Brick fire house.
 Owner—City and County of San Francisco (S. J. Hester, secretary, Board of Public Works).
 Architect—W. E. Baumberger, 544 Market Street.
 The structure will house an engine company, truck company, chemical company and hose tender.

Bonds Defeated.
AUDITORIUM Cost, \$1,250,000
 Fresno Co., Cal.
 Class A Municipal Auditorium, seating 6000 persons.
 Owner—City of Fresno.
 Architect—H. Rafael Lake, Pacific Southwest Bldg., Fresno, and C. E. Butner, Cory Bldg., Fresno.
 The vote was 5725 in favor and 6426 against the proposal.

SIERRAVILLE, Alpine Co., Calif.—Dinuba Steel Products Co., San Francisco, at \$1,090 submitted low bid to the county supervisors to furnish and install equipment in county jail, Southern Prison Co., San Antonio, Texas, bid \$1,175. Bids rejected and the installation indefinitely postponed. Mary N. Gray is county clerk.

FRESNO, Fresno Co., Cal.—County supervisors reject bids received April 10th for painting the county courthouse and new bids will be asked at once. A complete list of the bids received was published in issue of April 13th. D. M. Barnwell is county clerk.

Contract Awarded.
ALTERATIONS Cost, \$5100
BAKERSFIELD, Kern Co., Cal.
 Alterations for offices in courthouse.
 Owner—County of Kern, P. E. Smith, county clerk.
 Architect—E. J. Symmes, Haberfelde, Bldg., Bakersfield.
 Contractor—Currie & Dulgar, Bakersfield.
 Complete list of bids follows:
 Currie and Dulgar.....\$5,100
 F. A. Greenough.....5,650
 Fred Gribble.....5,850
 Opperman & Hullett.....6,750

SAN DIEGO, Cal.—Western Metalcrafts Co., 2023 Venice Blvd., Los Angeles, was awarded contract at \$130 by the Eleventh Naval District at San Diego for six confinement cells for building No. 1 at the Naval Operating Base (Destroyer Base), San Diego; specification No. 6382.

RENO, Nevada.—City council plans to abandon right of way for extension of Chestnut St. from the alley north of Maple St. to University Terrace and to deed a small parcel of city property to an association which plans immediate erection of an art museum on the site. Preliminary plans for the proposed structure have been submitted to the city council, which body will probably assist in financing construction.

RESIDENCES

Sub-Figures Being Taken.
RESIDENCE Cost, \$4000
SAN FRANCISCO, W 32nd Avenue S Rivera Street.
 One - story and basement frame and stucco residence.
 Owner & Builder—Standard Bldg. Co., 218 Castenada Ave.
 Plans by Owner.

Sub-Figures Being Taken.
RESIDENCE Cost, \$4000
SAN FRANCISCO, E 46th Avenue N Balboa Street.
 One - story and basement frame and stucco residence.
 Owner & Builder—Standard Bldg. Co., 218 Castenada Ave.
 Plans by Owner.

Sub-Figures Being Taken.
RESIDENCES Cost each, \$4000
SAN FRANCISCO, E 21st Avenue N Quintara Street.
 Two 1-story and basement frame and stucco residences.
 Owner & Builder—Standard Bldg. Co., 218 Castenada Ave.
 Plans by Owner.

SANTA CRUZ, Santa Cruz Co., Cal.—See Banks, Stores and Offices, this issue.

Contract Awarded.
ALTERATIONS Cost, \$4100
PIEDMONT, Alameda Co., Cal. 119 Cambridge Way.
 Alterations to residence.
 Owner—Dr. A. McAllister, premises.
 Architect—Not Given.
 Contractor—Ed Larmer, 50 Fairview Ave., Piedmont.

Contract Awarded.
FRATERNITY HOUSE Cost, Price, \$23,420
BERKELEY, Alameda Co., Cal. Virginia St. near LeConte Ave.
 Two-story and basement frame and stucco fraternity house.
 Owner—Alpha Chi Sigma, 2428 College Ave., Berkeley.
 Architect—W. H. Ratcliff Jr., Chamber of Commerce Bldg., Berkeley
 Contractor—H. J. Schulz, 311 Mendocino Ave., Berkeley.

Plans Being Figured.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.
 Two-story and basement frame and stucco residence.
 Owner—Dr. P. A. Brancato, 1256 Naglee Ave., San Jose.
 Architect—Binder & Curtis, 35 W-San Carlos St., San Jose.

Plans Being Figured—Bids Close April 25.
RESIDENCE Cost, \$10,000
PALO ALTO, Santa Clara Co., Cal.
 Two-story and basement frame and stucco residence (7 rooms).
 Owner—N. F. Knox.
 Architect—Guy O. Koepf, McDougall Bldg., Sausalito.

Sub-Figures Being Taken.
RESIDENCE Cost, \$7000
OAKLAND, Alameda Co., Calif. 847 Portal Avenue.
 Two - story and basement frame and stucco residence (7 rooms).
 Owner and Builder—Chas. E. Bardwell, Jr., 794 Lerida Ave., Oakland.
 Architect—Not Given.

Contract Awarded.
RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Calif. 94 El Camino Real.
 Two - story and basement frame and stucco residence (8 rooms).
 Owner—J. C. Stanier.
 Architect—Not Given.
 Contractor—S. M. Shapero, 1245 Berkeley Way, Berkeley.

Prospective Bidders.
RESIDENCE Cost, \$18,000
BERKELEY, Alameda Co., Cal. Hawthorne Terrace.
 Two - story and basement frame and stucco residence (9 rooms and 4 baths).
 Owner—Withheld.
 Architect—Wm. C. Ambrose, 605 Market St., San Francisco.

Following contractors will submit bids:
 Clinton Stephenson Const. Co., Monadnock Bldg., San Francisco.
 W. Livingston, 1152 Euclid Avenue, Berkeley.
 H. K. Schultz, 311 Mendocino Ave., Berkeley.
 Connor & Connor, 1726 Grove St., Berkeley.
 W. C. Cone, 1744 Broadway, Oakland.
 J. Dawson, 1507 Lincoln St., Berkeley.
 T. D. Courtright, 5098 Mainla St., Oakland.
 Bids are to be opened April 20, 3 P. M.

Sub-Plans Being Taken.
RESIDENCES Cost each, \$4000
SAN FRANCISCO. W 17th Avenue S
Lawton Street.
Four 1-story and basement frame and
stucco residences.
Owner and Builder—M. D. Hardman,
324 35th Avenue.
Plans by Owner.

To Be Done By Day's Work.
RESIDENCE Cost, \$7000
BERKELEY, Alameda Co., Cal. 672
Cragmont Ave.
Two-story frame and stucco residence
(6 rooms and garage).
Owner—Dr. Thomas O. Robinson, 68
Cragmont Ave., Berkeley.
Architect—F. H. Slocombe, 62 York
Drive, Oakland.

Contract Awarded.
BUILDINGS Cost, \$20,000
TAHOE, Placer Co., Cal.
Group of four one-story rustic build-
ings (dog walls, shake roofs).
Owner—Wyan Meredith.
Architect—Noble and Archie T. New-
son, Federal Realty Bldg., Oak-
land.
Contractor—H. F. Droste, 461 Vernon
St., Oakland.
Construction will start April 15th.
There will be a main house to con-
tain 8 rooms, two guest houses (two
rooms and baths each), garage build-
ing (3-car garage, laundry, two ser-
vants' rooms with two baths).

Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
SAN FRANCISCO. E Ninth Avenue
S Forest Hill.
One - story and basement (frame and
stucco residence).
Owner—H. Hansen, Jr., % contractor.
Plans by I. Goldberg, Santa Fe Bldg.
Contractor—J. S. Malloch, 666 Mission
Street.

Plumbing—J. J. McLeod, 1246 Golden
Gate Ave.
Electric Work—Noble Wright, 292 Te-
hama Street.
Chimneys and Heating—Clawson Co.,
84 Page St.
Concrete—Adam Arras Co., 2476 How-
ard Street.
Mill Work—Empire Planing Mill, 750
Bryant St.
Lumber—Loop Lumber Co., Central
Basin.

Prospective Bidders.
RESIDENCE Cost, \$12,000
SANTA CRUZ, Santa Cruz Co., Cal.
One - story and basement frame and
stucco residence (7 rooms and 2
baths; English type; tile or slate
roof).
Owner—L. Bowman, Santa Cruz.
Architect—L. D. Esty & McPhetres,
Alta Bldg., Santa Cruz.
Following contractors will submit
bids:
Wilson & McGranahan, Santa Cruz.
Hamilton & Church, Santa Cruz.
Palmer & Balsinger, Santa Cruz.
Wm. Friesen, Santa Cruz.
C. N. Doane, Santa Cruz.
E. M. Stone, Santa Cruz.
Bids are to be opened April 22nd.

Plans Being Figured By Selected List
of Contractors. Cost, \$10,000
RESIDENCE, Alameda Co., Cal.
Two-story and basement frame and
stucco residence.
Owner—Withheld.
Architect—Leonard Ford, 1435 Harri-
son St., Oakland.

Estimates Being Taken.
RESIDENCE Cost, \$16,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence (6 rooms and 3
baths).
Owner—Dr. E. E. Porter, Security
Bank Bldg., San Jose.

Architect—Wolfe and Higgins, Realty
Bldg., San Jose.
Architect is taking estimates from
S. Di Fiore, 106 7th St., San Jose, who
was low bidder on previous call for
bids. Just when the project will go
ahead is indefinite at this time.

Plans Being Figured—Bids "Jose Apr.
16th.
ADDITION Cost, \$2000
THURON, Marin Co., Calif.
Addition to residence.
Owner—R. Stern.
Architect—Fabre and Hildebrand, 110
Sutter St., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$11,000
BERKELEY, Alameda Co., Calif. El
Camino Real.
Two-story and basement frame and
stucco residence (8 rooms and 3
baths).
Owner and Builder—S. M. Shapiro,
1245 Berkeley Ave., Berkeley.
Architect—Ray F. Keefer, 3281 Lake-
shore Blvd., Oakland.
The roof, warm air heating system,
gas furnace.

Bids Rejected.
RESIDENCE Cost, \$ —
SAN FRANCISCO. Marina District.
Two - story and basement frame and
stucco residence (8 rooms and 3
baths).
Owner—P. Heydenfeldt, 727 9th Ave.
Architect—Norman R. Coulter, 48
Kearny Street.
Bids ran high. Specifications will be
revised slightly and new bids will be
taken shortly.

Preparing Plans.
RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. Berk-
eley View Terrace.
One-story and basement frame and
stucco residence (5 rooms).
Owner—G. S. Mushet, 324 43rd Street,
Richmond.
Plans by A. R. Herberger, 3281 Lake-
shore Blvd., Oakland.

Bids Opened.
RESIDENCE Cost, \$6000
SAN JOSE, Santa Clara Co., Cal.
One - story and basement frame and
stucco residence.
Owner—William Walsh, 1445 Liberty
St., San Jose.
Architect—Wolfe and Higgins, Realty
Bldg., San Jose.

Following is a complete list of bids:
M. W. Reese, 1210 Minnesota
St., San Jose.....\$4,197
S. DiFiore, San Jose.....4,228
Wm. Pogue, San Jose.....4,367
Howard Walsh, San Jose.....4,492
J. P. Henry, San Jose.....4,543
A. Rodrigues, San Jose.....4,579
V. Rotando, San Jose.....4,587
M. Bodin, San Jose.....5,325

Painting
George Cahill, 763 Julian St., San
Jose.....\$275
A. A. Davis, San Jose.....324
C. W. Lynds, San Jose.....345
F. Kuntz, San Jose.....497
Bids held under advisement.

Completing Plans.
RESIDENCE Cost, \$12,500
PIEDMONT, Alameda Co., Cal. Blair
Avenue.
Two-story and basement frame and
stucco residence (8 rooms and 3
baths).
Owner & Builder—Sigwald Bros., 916
Alma Ave., Oakland.
Architect—Ray F. Keefer, 3281 Lake-
shore Blvd., Oakland.
Sub-bids will be taken in one week.

Sub-Bids Being Taken.
RESIDENCE Cost, \$12,500
PIEDMONT, Alameda Co., Cal. Blair
Avenue.

Two-story and basement frame and
stucco residence (8-rooms and 3
baths).
Owner and Builder—Sigwald Bros., 916
Alma Ave., Oakland.
Architect—Ray F. Keefer, 3281 Lake-
shore Blvd., Oakland.

Sub-Bids Being Taken.
RESIDENCES Cost each, \$7500
SAN FRANCISCO. 17th Avenue and
Ulloa Street.
Four 1-story and basement frame and
stucco residences (6 rooms each).
Owner & Builder—S. F. Johnson, 3918
Fulton Street.
Architect—Charles Strothoff, 2274 15th
Street.

Plans Being Completed.
RESIDENCE Cost, \$15,000
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and
stucco residences (9 rooms and 3
baths).
Owner—G. A. Bauman, 1508 Flori-
bunda, Burlingame.
Plans by E. Reichel, 303 University
Ave., Palo Alto.
Bids will be taken within 1 week.

Contract Awarded.
RESIDENCE Cost approx., \$20,000
SAN JOSE, Santa Clara Co., Cal.
Two - story and basement frame and
stucco residence (10 rooms)
Owner—Dr. E. F. Cook, Saint Claire
Bldg., San Jose.
Architect—Ralph Wyckoff, San Jose
National Bank Bldg., San Jose.
Contractor—Guy M. Latta, 157 Rhodes
Court, San Jose.
Architect is now taking bids on the
steam heating system.

Contract Awarded.
RESIDENCE Cost, \$15,000
BERKELEY, Alameda Co., Calif. El
Camino Real.
Two - story and basement frame and
stucco residence (7 rooms and 3
baths).
Owner—Dr. Clyde Wetmore 2490 Chan-
ning Way, Berkeley.
Architect—E. L. Snyder, 2101 Shat-
tuck Ave., Berkeley.
Contractor—H. K. Schulz, 811 Mendo-
cino Ave., Berkeley.

Sub-Bids Being Taken.
RESIDENCES Cost each, \$6000
SAN FRANCISCO. 46th Av ue North
Fulton Street.
Two 1-story and basement frame and
stucco residences (6 rooms each).
Owner and Builder—M. McDonough,
148 Randall Street.
Architect—Not Given.

Sub-Bids Being Taken.
RESIDENCES Cost each, \$5500
SAN FRANCISCO. 46th Avenue North
Fulton Street.
Three one-story and basement frame
and stucco residences (five rooms
each).
Owner and Builder—M. McDonough,
148 Randall Street.
Architect—Not Given.

Sub-Bids Being Taken.
RESIDENCES Cost each, \$6000
SAN FRANCISCO. Fulton Street E
46th Avenue.
Two 1-story and basement frame and
stucco residences (6 rooms each).
Owner and Builder—M. McDonough,
148 Randall Street.
Architect—Not Given.

Contract Awarded.
BUNGALOWS Cost, \$ —
HEALDSBURG, Sonoma Co., Cal.
Three one-story frame and plaster
bungalows.
Owner—E. Y. Dozier, Healdsburg.
Private plans.
Contractor—Miller and Whitelaw, San
Francisco.

Plans Being Completed.
RESIDENCES Cost each, \$10,000
SAN FRANCISCO. Monterey Heights.
Two 2-story and basement frame and
stucco residences (8 rooms and 2
baths).
Owner and builder—G. W. Stanley, 467
Turk Street.
Architect—Harold G. Stoner, 601 Under-
wood Bldg., San Francisco.
Sub-bids will be taken in 1 week.

Plans Being Completed.
RESIDENCES Cost each, \$6000
SAN JOSE, Santa Clara Co., Calif.
Three 1-story and basement frame
and stucco residences (5 rooms).
Owner—Mary E. Chute.
Architect—Wolfe and Higgins, Realty
Bldg., San Jose.
Plans will be ready for bids April
18th.

Plans Being Figured.
RESIDENCE Cost, \$15,000
SAN JOSE, Santa Clara Co., Calif.
Two-story and basement frame and
stucco residence (15 rooms and 2
baths).
Owner—C. P. Smith, 354 S 10th St.,
San Jose.
Architect—Charles McKenzie, Twoby
Bldg., San Jose.
About two weeks will be allowed for
figuring the plans.

Bids Rejected—New Bids Being Taken
RESIDENCE Cost, \$7000
SAN RAFAEL, Marin Co., Cal. Mc-
Rae Avenue.
One - story and basement frame and
stucco residence (6 rooms).
Owner—Warren Crane, San Rafael.
Architect—S. Helman, 605 Market St.,
San Francisco.

Plans Being Completed.
RESIDENCE Cost, \$ —
KENTFIELD, Marin Co., Cal.
Two - story and basement frame and
stucco residence (8 rooms and 3
baths).
Owner—Withheld.
Architect—W. E. Baumberger, 5 4 4
Market St., San Francisco.
Bids will be taken in two weeks.

Plans Being Figured.
RESIDENCE Cost, \$5000
STOCKTON, San Joaquin Co., Cal.
One - story and basement frame and
stucco residence (5 rooms).
Owner—W. H. Griffin, Stockton.
Architect—Victor Galbraith, Elks Bldg.,
Stockton.
Shingle roof, gas heating system.

Plans Being Figured.
RESIDENCE Cost, \$11,000
BERKELEY, Alameda Co., Cal. Orin-
da District.
One - story and basement frame and
stucco residence (7 rooms and 2
baths).
Owner—Carl Friden.
Architect—Fred H. Reimers, 233 Post
St., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$11,000
BERKELEY, Alameda Co., Calif. El
Camino Real.
Two - story and basement frame and
stucco residence (8 rooms and 3
baths).
Owner—Dr. Max Kameny.
Architect—Ray F. Keefer, 3281 Lake-
shore Blvd., Oakland.
Contractor—S. M. Shapero, 1245 Berk-
eley Way, Berkeley.
Tile roof, warm air heating system,
gas furnace.

SCHOOLS

Contracts Awarded.
WINDOW SHADES Cost, \$ —
BERKELEY, Alameda Co., Cal. Uni-
versity Campus.
Window shades and Venetian blinds;
linoleum and laboratory furniture

for buildings in engineering group.
Owner—University of California, Berk-
eley.
Architect—George Kelham, 315 Mont-
gomery St., San Francisco.
Laboratory Furniture
R. Brandelin Co., 2141 Bryant St.,
San Francisco, \$17,555.
Linoleum
Clim-Err-Edge Linoleum House, Inc.,
453 Santa Clara, Oakland, \$5,730.
Window Shades and Venetian Blinds
D. N. & E. Walter Co., 562 Mission
St., San Francisco, \$2,240.
Venetian Blinds
C. F. Weber Co., 605 2nd St., San
Francisco, \$1,335.

Plans Being Figured—Bids Close May
9, 2 P. M.
SCHOOL Cost, \$87,000
YUBA CITY, Sutter Co., Cal.
Two-story brick elementary school.
Owner—Yuba School District, C. P.
Taylor, Roy E. Cassidy and Eliza-
beth Z. Littleton (clerk), trustees
of district.
Architect—Davis-Pearce Co., Grant &
Weber Sts., Stockton.
Plans will be available April 13 from
Mrs. E. Z. Littleton, clerk, upon de-
posit of \$50. Bids will be received at
the elementary school and will be
opened in the auditorium of the high
school.

Plans Being Completed.
ADDITION Cost, \$15,000
CASTROVILLE, Monterey Co., Cal.
One-story reinforced concrete addition
to school.
Owner—Castroville Union School Dis-
trict. Architect—W. H. Weeks, 525 Market
St., San Francisco.
Bids will be taken in about 2 weeks.

VALLEJO, Solano Co., Cal.—Wor-
ley & Co., 35 Natoma St., San Fran-
cisco, at \$1,959.20 awarded contract by
Board of Education to furnish and in-
stall 540 book lockers for high school,
same to be equipped with Dudley pad-
locks.

BAKERSFIELD, Kern Co., Cal.—
Public affairs committee of the Ki-
wanis Club voted to request the
Bakersfield High School Board to pro-
ceed with plans for the early con-
struction of a new auditorium at the
high school.

SAUSALITO, Marin Co., Cal.—Vin-
cent and Maggoria, Sausalito, sub-
mitted low bid to Sausalito School
District to improve playground areas
of the Central School yard, Litho and
Calendonia Streets, and at the South

School yard, North and Third Streets.
Bids referred to secretary of the
Board, S. G. Ratto, for tabulation.
Bids were also submitted by: A. T.
Howe, Santa Rosa; Anchor Post
Fence Co.; Standard Fence Co.; F. J.
Main, Fairfax; E. P. Finnigan, San
Francisco and Michel and Pfeffer Iron
Works.

April 11, 1931
Sub-Contracts Awarded.
ADDITION Cost, \$ —
SAN FRANCISCO. Fulton Street nr.
Stanyan Street.
Three-story reinforced concrete addi-
tion to present building of San Francisco,
Architect—Edward Eames, 353 Sacra-
mento Street.
Contractor—Barrett & Hilp, 918 Har-
rison Street.
Electric Wiring—Victor Lemoge, 281
Nassau St.
Plumbing—Albach & Mayer, 85 Dor-
land Street.
Heating—P. J. Enright, 2720 McAllis-
ter Street.
Lumber—Loop Lumber Co., Central
Basin.
Concrete—Readymix Concrete Co., 575
Berry Street.
Structural Steel—Judson Pacific Co.,
609 Mission St.
Brick Work—Wm. Rainey, 323 Mem-
entina Street.
Glass—Smith Glass Co., 475 Bryant
Street.
Sheet Metal—Morrison & Co., 74 Du-
boce Avenue.
Miscel. Iron—Monarch Iron Works, 262
7th Street.
Roofing—Jones Bros. Asbestos Supply
Co., Inc., 370 2nd St.
Hardwood Floors—Oak Floor Co., 325
Arlington St.
As previously reported, steel plans
awarded to Steelform Contracting Co.,
Monadnock Bldg.

CHICO, Butte Co., Cal.—Until 5 P.
M., May 5, bids will be received by C.
H. Camper, city superintendent of
schools, for school supplies to be de-
livered at Oakdale School stockroom
and Chico High School Bldg. These
supplies are general school supplies,
art supplies, janitors' supplies, mater-
ial for manual training shops, phys-
ical education departments, and for
the laboratories. Specifications fur-
nished upon application to above.

NEVADA CITY, Nevada Co., Cal.—
High School plant suffered a \$25,000
fire loss April 13. Repairs will be made
as soon as insurance is adjusted.

ORNAMENTAL WIRE AND IRON WORK

IRON WIRE Fence and Gates

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WIRE SCREENS AND GUARDS

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Sub-Contracts Awarded.
AUDITORIUM Cont. Price, \$22,600
SACRAMENTO, Sacramento Co., Cal.
 One-story and basement brick auditorium.
Owner—St. Joseph Academy.
Architect—Harry Devine, California State Life Bldg., Sacramento.
Contractor—Azevedo & Sarmiento, 920 O St., Sacramento.
Brick Work—W. J. Clifford, 2815 S St., Sacramento.
Heating—McLaughlin Sheet Metal Works, 1914 1 St., Sacramento.
Plumbing—F. A. McIntyre, 2923 35th St., Sacramento.
Electric Wiring—M. P. Canon, 2708 Tenth Ave., Sacramento.
Mill Work—Capital City Planning, 1812 9th St., Sacramento.
Structural Steel—Palm Iron Works, 15th and S Sts., Sacramento.
Reinforcing Steel—Thos. F. Scallion, 2320 X St., Sacramento.
Ornamental Iron—Palm Iron Works, 15th and S Sts., Sacramento.
Roofing—Capital Roofing Co., 2011 Q St., Sacramento.
Sheet Metal—McLaughlin Sheet Metal Works, 1914 1 St., Sacramento.
Painting—Wilcoxon-Wilson, 1724 34th St., Sacramento.
Plastering—Thomas F. Scollan Co., 2919 T St., Sacramento.
Glass and Glazing—T. E. Cain, 2416 J St., Sacramento.
Maple Floors—Forsberg-Frise, 3026 33rd St., Sacramento.
Cement Work—C. R. Fiedler, 2631 30th St., Sacramento.
Steel Sash—Thos. Scollan, 2919 T St., Sacramento.

Contract Awarded—Complete Bid Listing.
SCHOOL Cont. Price, \$6760
BURNEY, Shasta Co., Calif.
Grammar school.
Owner—Burney School District.
Architect—Ralph D. Taylor, Alturas.
Contractor—Enoch Strom, Alturas.
 (a) work complete; (b) deduct, plaster wainscot; (c) omit furnace; (d) omit septic tank.
 J. Enoch Strom, Alturas, (a) \$6760; (b) \$69; (c) \$369; (d) \$218.
 S. Severtson, Redding, (a) \$6840; (b) \$80; (c) \$375; (d) \$167.
 P. B. Harris, Cedarville, (a) \$7160; (b) \$75; (c) \$300; (d) \$150.
 J. P. Brennan, Redding, (a) \$7183; (b) \$8; (c) \$483; (d) \$66.
 H. Nelson, Orland, (a) \$7427; (b) \$51; (c) \$363; (d) \$103.
 Harry Porter, Gerber, (a) \$7439; (b) \$53; (c) \$350; (d) \$200.
 Chas. Akard, Redding, (a) \$7476; (c) \$...; (c) \$350; (d) \$150.
 Robin Arbuckle, Anderson, (a) \$7660; (b) \$75; (c) \$300; (d) \$55.
 A. J. Nylander, Alturas, (a) \$7725; (b) \$90; (c) \$330; (d) \$150.
 F. H. Horn, Red Bluff, (a) \$8199; (b) \$150; (c) \$325; (d) \$150.
 A. O. Lightford, Bieber, (a) \$8400; (b) \$80; (c) \$350; (d) \$110.

Plans Being Figured—Bids Close April 22.
SCHOOL Cost, \$150,000
SEATTLE, Wash., East 60th St., bet. 33rd and 34th Aves. (Bryant School).
Part one- and three-story fireproof school, 1st story section, 98x36 ft. with 3-story section, 167x42 ft.
Owner—Seattle School District No. 1 (Rueben W. Jones, Secretary).
Architect—F. A. Naramore (City School Architect), 810 Dexter Ave., Seattle, Wash.

SAN FRANCISCO—Until April 27, 3 P. M., under Proposal No. 709, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and install shop equipment for School Department. Specifications and further information obtainable from above.

Bids Opened.
WINDOW SHADES Cost, \$—
BERKELEY, Alameda Co., Cal.—University Campus.
Window shades and Venetian blinds: linoleum and laboratory furniture for buildings in engineering group.
Owner—University of California, Berkeley.
Architect—George Kelham, 315 Montgomery St., San Francisco.
 Following is a complete list of bids:
Laboratory Furniture
 R. Brandelin Co., 2141 Bryant St., San Francisco.....\$17,555
 Fink & Schindler, S. F.....21,993
 Pacific Mfg. Co., S. F.....22,638
 C. F. Weber Co., S. F.....25,105
 E. H. Sheldon Co., S. F.....25,244
 Home Mfg. Co., S. F.....26,277
 Braas & Kuhn, S. F.....28,500
 Union Planning Mill, Stockton.....31,828
Linoleum
 Clim-Er-Ege Linoleum House, Inc., 458 Santa Clara, Oakland, \$5,730 (Certain-Teed); \$6,167 (Armstrong).
 D. N. & E. Walter Co., San Francisco, \$5,893.40 (Congoleum).
 Anderson, Ltd., Oakland, \$6,074.35 (Certain-Teed).
 W. & J. Sloane, San Francisco, \$6,467 (Sloanes).
Window Shades and Venetian Blinds
 D. N. & E. Walter Co., 562 Mission St., San Francisco.....\$2,240
 A. J. Ruhman, S. F.....3,297
Venetian Blinds
 C. F. Weber Co., 650 2nd Street, San Francisco.....\$1,335
 Dehn & Co., S. F.....1,498
 Bids held under advisement.

BERKELEY, Alameda Co., Cal.—Until April 27, 3 P. M. bids will be received by Clara F. Andrews, secretary, Board of Education, 2325 Milvia st., to furnish and deliver science supply and equipment for school year 1931-32. Specifications and further information obtainable from secretary. (6327) —15

Roofing and Electric Wiring Bids Wanted.
CAFETERIA Cont. price, \$20,995
YUFA CITY, Sutter Co., Calif. Yuba City High School.
 One-story reinforced concrete cafeteria.
Architect—Charles F. Dean, California State Life Bldg., Sacramento.
Contractor—A. F. Rempter, Artois.
Lumber and Cement—Diamond Match Co., Yuba City.
 Other awards will be made shortly.

OAKLAND, Cal.—Henry R. Clark, 659 Boulevard Way, Oakland, at \$2,994.14 awarded contract by Board of Education, Administration Bldg., to furnish and deliver steel lockers for Fremont High School.
 Maxwell Hardware Co., 1320 Washington St., Oakland, at \$646.05 awarded contract for padlocks.

Sub-Bids Wanted.
GYM Cost, \$100,000
MONTEREY, Monterey Co., Cal.
 One-story reinforced concrete and tile gymnasium and reinforced concrete and tile swimming pool.
Owner—Monterey Union High School District.
Architect—Swartz & Ryland, Spauler Bldg., Monterey.
 Wm. C. Keating, general contractor, 4209 Mountain Blvd., Oakland, and Forum Bldg., Sacramento desires sub-bids on all portions of the work in connection with above, for which bids are to be opened April 24, 7:30 P. M.

OAKLAND, Cal.—C. F. Weber Co., 650 2nd St., San Francisco, at \$3,004.17 submitted lowest bid to Board of Education, 104 Administration Bldg., to furnish and deliver science tables for Fremont High School.
 Following is a complete list of bids:
 C. F. Weber Co., S. F.....\$ 8,094.17
 E. H. Sheldon, S. F.....8,240.68
 R. Brandelin Co., S. F.....10,664.00
 Bids held under advisement until April 21st.

Plans To Be Prepared.
BUILDING Cost, \$50,000
BAKERSFIELD, Kern Co., Cal. Stony Brook Retreat.
 Educational Building at County Tubercular Sanatorium.
Owner—County of Kern, F. E. Smith, county clerk, Bakersfield.
Architect—Not Yet Selected.
 Construction has been recommended by Dr. E. A. Schaper, superintendent and medical director of the sanatorium. The structure will accommodate juvenile patients and would contain classrooms, laboratories, domestic science room and library.

Low Bidder.
ADDITION Cont. price, \$3,772
HOLLISTER, San Benito Co., Cal.
 Two classroom addition to Monterey and B Streets School.
Owner—Hollister School District, Harriet Johnson, clerk.
Plans by Earl Griffin, Hollister.
Low Bidder—C. H. Younger, 840 Washington St., Hollister.
 Complete list of bids will be published shortly.

Low Bidder.
ELECTRIC SYSTEM Cost, \$—
SANTA CLARA, Santa Clara Co., Cal.
 Electric wiring system for elementary school.
Owner—Santa Clara School District, Chas. W. Townsend, Clerk.
Architect—Ralph Wyckoff, San Jose National Bank Bldg., San Jose.
Low Bidder—Gilbert Bros., 256 W. Santa Clara St., San Jose.
 Complete list of bids will be published shortly.

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OAKLAND, Cal.—C. F. Weber & Co., 650 2nd St., San Francisco, at \$4,628.70 awarded contract by Board of Education, Administration Bldg., to furnish and deliver opera chairs for Fremont High School.

To Ask Bids.
SCHOOL Cost, \$3800
LAKEPORT, Lake Co., Cal.
One-story frame and stucco school (2 classrooms).
Owner—Sulphur Bank School District.
Architect—N. R. Coulter, 46 Kearny St., San Francisco.

Plans are completed and will be forwarded to owners for approval immediately. Bids will be advertised within one week.

BANKS, STORES & OFFICES

Plans Being Completed.
STORE Cost, \$15,000
BURLINGAME, San Mateo Co., Calif.
Laguna Avenue and Broadway.
One-story reinforced concrete store (3 stores).
Owner—Martin Stelling and E. L. Gould, 155 Montgomery St., San Francisco.
Architect—Bertz, Winter and Maury, 210 Post St., San Francisco.
Bids will be called for within one week.

Contract Awarded.
STORE Cost, \$25,000
BAKERSFIELD, Kern Co., Cal.
One-story reinforced concrete store.
Owner—Bank of America.
Architect—H. A. Minton, Bank of America Bldg., Powell and Eddy Sts., San Francisco.
Contractor—Currie and Dulgar, Kern County Land Co. Bldg., Bakersfield.

Sub-Contracts Awarded.
REMODELING Cost, \$12,000
SAN FRANCISCO. SW Post and Fillmore Streets.

Remodel store (new store fronts, partitions, etc.)
Owner—Lester Loupe, 155 Montgomery Street
Architect—S. Heiman, 605 Market St.
Contractor—J. S. Malloch, 666 Mission Street.

Plumbing—J. H. McLeod, 1246 Golden Gate Ave.
Electric Work—Wedel Electric Co., 426 Kearny St.

Mill Work—Empire Planing Mill, 750 Bryant St.
Work involves plumbing, electric wiring, glass, plastering, tile work, etc.

Marble Contract Awarded.
BANK Cost, \$200,000
MONTEREY, Monterey Co., Cal. Location not selected.
One-story and mezzanine steel frame and concrete bank with tile roof.
Owner—Monterey County Trust and Savings Bank.

Architect—H. H. Winner Co., 580 Market St., San Francisco.
Mgr. of Const.—Mary Finalyson, care architect.

Marble—Eisele & Dondero, 2895 Third St., San Francisco.
As previously reported, cabinet and mill work awarded to H. Schulte, 49 Rogers St., San Francisco; electrical work to Carroll & Searle, 765 Light-house Ave., Monterey; structural steel to McClintic-Marshall Co., 2050 Bryant St., San Francisco; reinforcing to Gunn, Carle & Co., 444 Market St., San Francisco; excavation to M. J. Murphy, Carmel.

Plans Being Figured.
STORE Cost, \$100,000
LOS ANGELES, Cal. Washington and Reed Streets.

Two-story Class B brick and steel store.
Owner—Gore Bros.
Architect—C. A. Balch, Film Exchange Bldg., Los Angeles.
Lessee—Hill Bros.

April 14, 1931
Sub-Bids Wanted.
STORE Cost, \$250,000
SACRAMENTO, Sacramento Co., Cal.
Two-story reinforced concrete and steel frame store.
Owner—S. H. Kress Co., Western Pacific Bldg., Los Angeles.
Architect—John Fleming, 1031 South Broadway, Los Angeles.
Wm. C. Keating, general contractor, 4209 Mountain Blvd., Oakland, and Forum Bldg., Sacramento desires sub-bids on all portions of the work in connection with above, for which general bids will be opened April 20th.

Sub-Bids Wanted.
BANK Cost, \$25,000
HOLLISTER, San Benito Co., Cal.
One-story reinforced concrete bank.
Owner—Bank of America.
Architect—H. A. Minton, 525 Market St., San Francisco.
James L. McLaughlin Const. Co., 251 Kearny St., San Francisco, general contractor, desire sub-bids on all portions of the work in connection with the above, for which general bids are to be opened April 27th.

Sub-Bids Wanted.
STORE Cost, \$250,000
SACRAMENTO, Sacramento Co., Cal.
Two-story reinforced concrete and steel frame store.
Owner—S. H. Kress Co., Western Pacific Bldg., Los Angeles.
Architect—John Fleming, 1031 South Broadway, Los Angeles.
MacDonald & Kahn, general contractors, Financial Center Bldg., San Francisco, desire sub-bids on all portions of the work in connection with above, for which general contract bids will be opened April 20th. Los Angeles All sub-bids will be in by April 18.

Contract Awarded.
STORE Cost approx. \$10,000
MARTINEZ, Contra Costa Co., Cal.
One-story steel frame and brick store (50x80-ft.)
Owner—Leo Lippow, Martinez.
Architect—L. H. Ford, 1435 Harrison St., Oakland.
Contractor—Wallace Snelgrove, 24th and Esmond, Richmond.

Contract Awarded.
ALTERATIONS Cost, \$15,000
SAN FRANCISCO. NE Grant Avenue and Market Street.
Alterations to bank.
Owner—Wells Fargo Bank & Union Trust Co., Grant Ave. and Market Street.
Plans by M. G. West Co., 117 Front Street.
Contractor—Barrett & Hilp, 918 Harrison Street.

Preliminary Sketches Prepared.
APARTMENTS, ETC. Cost, \$75,000
SANTA CRUZ, Santa Cruz Co., Cal.
North side of Esplanade.
Apartments, store and bungalows.
Owner—Harry Hussman, represented by Andy Balch, Palamar Hotel, Santa Cruz.
Architect—Frank W. Moore, 1132 Glen Ave., San Jose.
Work consists of a building 192 ft. long, to contain ten shops and stores (18x30-ft. each), two separate buildings for apartments, and several bungalows. Spanish style.

Prospective Bidders.
STORE Cost, \$250,000
SACRAMENTO, Sacramento Co., Cal.
Two-story reinforced concrete and steel frame store.

Owner—S. H. Kress Co., Western Pacific Bldg., Los Angeles.
Architect—John Fleming, 1031 South Broadway, Los Angeles.
Following is a partial list of the contractors who have secured plans:
Robert McKee, 515 Hewett St., Los Angeles.
W. C. Keating, 4209 Mountain Blvd. Oakland, and Forum Bldg., Sacramento.
Lindgren & Swinerton, Inc., California State Life Bldg., Sacramento.
Mathews Const. Co., Forum Bldg., Sacramento.
Barrett & Hilp, 918 Harrison Street San Francisco.
K. E. Parker, 135 South Park, San Francisco.
Miller Co., Inc., Tampa, Florida.
Bids are to be opened April 20th in Los Angeles.

Prospective Bidders.
BANK Cost, \$25,000
HOLLISTER, San Benito Co., Cal.
One-story reinforced concrete bank.
Owner—Bank of America.
Architect—H. A. Minton, 525 Market St., San Francisco.

Following contractors will submit bids:
David Paganini, 519 California St. San Francisco.
Jas. L. McLaughlin, 251 Kearny St. San Francisco.
Chas. Heyer, Mills Bldg., San Francisco.
Macdonald & Kahn, Financial Center Bldg., San Francisco.
Jacks & Irvine, 74 New Montgomery St., San Francisco.
Hannah & Sampson, 251 Kearny St. San Francisco.
K. E. Parker, 135 South Park, San Francisco.
Daniel Hays, 22 Brady Street, San Francisco.
Bids are to be opened April 27th.

Sub-Contracts Awarded.
STORE Cost approx. \$15,000
BURLINGAME, San Mateo Co., Cal. 71 Third Street.
One-story reinforced concrete store.
Owner—Martin Stelling and E. L. Gould, 155 Montgomery St., San Francisco.
Architect—Bertz, Winter & Maury 210 Post St., San Francisco.
Contractor—Clinton Stephenson Construction Co., Monadnock Bldg., San Francisco.
Lumber—J. H. McCallum, 748 Bryant St., San Francisco.
Concrete Materials—San Mateo Feed & Fuel Co., 850 San Mateo Drive, San Mateo.

Cement—Pacific Portland Cement Co., 411 Sutter St., San Francisco.
Steel Sash—Michael & Pfeiffer Iron Works, Harrison and Tenth Sts., San Francisco.

Miscellaneous Iron—Folsom St. Iron Works, 17th and Missouri Sts., San Francisco.
Ornamental Iron—Industrial Ornamental Iron & Wire Works, 552 Noe St., San Francisco.

Cast Cement Ornament—Thos. Gorsuch, 728 Divisadero Street, San Francisco.
Plumbing—Frank Regan, 245 California Drive, Burlingame.
Electric—Atlas Electric Co., 135 E St., San Mateo.

Glass and Vitrolite—Tyre Bros., 666 Townsend St., San Francisco.
Acoustic Tile and Plaster—Mott & Peterson, 3221 20th St., San Francisco.

Mill Work—Empire Planing Mill, 750 Bryant St., San Francisco.
Hardware—Palace Hardware Co., 581 Market St., San Francisco.
Sub-bids are wanted on plastering and sheet metal.

Engineering News Section

BRIDGES

REDWOOD CITY, San Mateo Co., Cal.—See "Streets and Highways" Main Issue. Bids wanted to improve Main street, including construction of a reinforced concrete bridge of two 30-ft. spans with 4-wing walls over Redwood Creek.

TRINITY COUNTY, Cal.—Until May 1, 2 P. M., bids will be received by State Highway Commission to construct bridge across North Fork of the Trinity River near Helena, composed of one 150 ft. through steel truss span and two 47-ft. 2-inch concrete girder spans on concrete piers and abutments.

SAN FRANCISCO.—Golden Gate Bridge and Highway District, Financial Center Bldg., will ask bids about April 22 on the first unit of the construction in connection with the Golden Gate Bridge for which bonds of \$35,000,000 were authorized last year. It is proposed to ask separate bids on the project under the following schedules:

(1) Superstructure, including the main towers, cables and stiffening presses; (2) two main piers and San Francisco pier fenders; (3) two anchorages; (4) San Francisco and Marin approach spans with steel super structure; (5) the Presidio road complete exclusive of lighting; (6) Sausalito lateral road complete exclusive of lighting; (7) paving of the main span of the San Francisco and Marin approach span; (8) electric light and power installation for the entire bridge; (9) cable house and stairways, filling and grading; (10) poll terminal; (11) cement.

SAN LUIS OBISPO, Cal.—City defects proposal to issue bonds of \$12,000 to finance widening of the present bridge in Essex St. near Pismo St. over San Luis Obispo Creek and widening the present culvert in North Broad St. over Old Garden Creek.

SANTA CLARA COUNTY, Cal.—Oberg Bros., 3170 Hollenbeck Ave., Los Angeles, at \$50,153 awarded contract by State Highway Commission to construct reinforced concrete girder bridge across Cañadero Creek about 1.7 miles south of Gilroy, consisting of four 35 ft. spans on concrete pile bents and concrete abutments, approximately 0.35 mile of roadway approaches to be graded and paved with Portland cement concrete. Complete list of unit and total bids published in issue of April 8.

SALINAS, Monterey Co., Cal.—Upon reconsideration of bid, county supervisors reject bids to construct steel and timber bridge on the Soledad-King City road over Chalone Creek near Metz and the work will be done by day labor under the supervision of County Surveyor Howard Cozzens. Ben C. Gerwick, San Francisco, low bidder at \$21,452.

PLACERVILLE, El Dorado Co., Cal.—Until May 5, 2 P. M., bids will be received by Arthur J. Koltzke, county clerk, to construct reinforced concrete girder bridge for the South Approach of the Coloma Bridge on the South Fork of the American River. Certified check 10% payable to clerk

required with bid. Plans obtainable from Henry Lahiff, county surveyor, on deposit of \$10, returnable. Quantities of materials involved will be published shortly.

SANTA BARBARA, Cal.—C. B. Davison, 1517 Santa Fe Ave., awarded the contract by county supervisors on April 15 to construct steel bridge, with reinforced concrete deck, located on the Goleta Foothill Blvd., over San Roque Creek, in the 3rd Road District, County of Santa Barbara.

PALO ALTO, Santa Clara Co., Cal.—County supervisors of San Mateo and Santa Clara Counties contemplate widening Middlefield road bridge connecting the two counties, each county to contribute \$4500 toward the work. The bridge would be widened to 38 ft. between curbs and the grade lowered one foot.

MERCED COUNTY, Cal.—M. E. McGowan, 74 New Montgomery St., San Francisco, at \$102,400 awarded contract by State Highway Commission to construct a steel stringer overhead crossing over the tracks of The Atchafalaya, Topeka & Santa Fe Railway about 2½ miles east of Merced, consisting of thirty-one 41-ft. spans and seven 20-ft. spans with reinforced concrete deck on steel pile bents and steel frame bents on concrete footings with timber pile foundations and approaches to be graded and paved with Portland cement concrete. Complete list of unit and total bids received on this project were published in issue of April 7.

OAKLAND, Cal.—U. S. War Department has approved plans of County Surveyor Geo. A. Posey for \$700,000 bridge across the Oakland Estuary at Twenty-third avenue connecting with Park street in Alameda, to replace the antiquated structure which has been condemned at a detriment to shipping and to traffic. Will be of the bascule type, 650 ft. long, 250 ft. of which will be clear to form the span proper. War Department permit calls for a 40 ft. channel with a 15 ft. clearance. Bridge will have 4 ft. rdwy. and 6 ft. sidewalk.

EUREKA, Humboldt Co., Calif.—Chris Winkler, Ferndale, at \$6,140 awarded contract by county supervisors to construct bridge over the Klamath River at Martin's Ferry, involving the placing of a steel span between two towers now in place. Span will be 411-ft. long and 180-ft. above the river, near Martin's Ferry. Complete list of bids follows:

Chris Winkler, Ferndale.....	\$ 6,140
Henry Padgett, Fields Landing.....	6,333
Smith Bros. Co., Eureka.....	8,840
Joe Gerrick, San Francisco.....	10,518

DREDGING, HARBOR WORKS & EXCAVATIONS

PEARL HARBOR, T. H.—Standard Dredging Co., Central Bldg., Los Angeles, submitted the low bid to the U. S. Bureau of Yards and Docks, Navy Department, Washington, D. C., at \$252,000, for part 1, of the dredging at Pearl Harbor, involving 2,900,000 cu. yds. material.

Hawaiian Dredging Co., Honolulu,

submitted the low bid for parts 2, 3, and 4, amounting to \$303,000.

The bids were taken under advisement.

STOCKTON, San Joaquin Co., Cal.—Willard and Biasotti, Stockton, at \$1,000 awarded contract by City Manager Walter B. Hogan to construct permanent protection levee at east end of proposed main deep water turning basin, to be located near Mormon Channel.

PEARL HARBOR, T. H.—Standard Dredging Co., Central Bldg., Los Angeles, awarded contract by U. S. Bureau of Yards and Docks, Navy Department, Washington, D. C., at \$262,000 for part 1 of the dredging at Pearl Harbor, involving 2,900,000 cu. yds. material. Hawaiian Dredging Co., Honolulu, was awarded the contract for parts 2, 3 and 4, amounting to \$303,000.

PEARL HARBOR, T. H.—Low bidders on dredging at Pearl Harbor, opened by the Bureau of Yards and Docks, Navy Department, April 8, under Specification No. 6299, previously noted. Following is a complete list of bids received:

Entire work 2,895,000 cubic yards:	
Standard Dredging Co.,	40.9 cents;
Hawaiian Dredging Co.,	37.5 cents.
Item 2—1,092,000 cubic yards:	
Standard Dredging Co.,	27 cents;
Hawaiian Dredging Co.,	24 cents.
Item 3—18,000 cubic yards:	
Standard Dredging Co.,	69 cents;
Hawaiian Dredging Co.,	58.5 cents.
Item 4—882,000 cubic yards:	
Standard Dredging Co.,	36 cents;
Hawaiian Dredging Co.,	31 cents.
Item 5—90,000 cubic yards:	
Standard Dredging Co.,	69 cents;
Hawaiian Dredging Co.,	57.5 cents.

No bids received on items 6 to 11, inclusive.

STOCKTON, San Joaquin Co., Cal.—Until April 20, bids will be received by city council for dredging 188,000 cu. yds. of material from city-owned property on south side of Stockton Channel in the Boggs Tract. Estimated cost, \$30,000. Specifications obtainable from Lyle Payton, city engineer.

IRRIGATION PROJECTS

TURLOCK, Stanislaus Co., Cal.—H. Johansen, Turlock, at \$1,172.25 awarded contract by Turlock Irrigation District for improvements in District No. 70, involving: 14,450 sq. ft. 2-in. concrete canal lining; 1 concrete structure, involving 1.4 cu. yds. concrete; 5 concrete structures, involving 5.16 cu. yds. concrete.

TURLOCK, Stanislaus Co., Calif.—Until May 4, 2:45 P. M., bids will be received by Anna Sorensen, secretary, Turlock Irrigation District, for improvements in Improvement Dist. No. 7, involving:

(a) 29,400 sq. ft. 2-in. concrete canal lining;
(b) 9 concrete structures, involving 10.85 cu. yds. concrete.

(Above work will be paid for in cash by property owners). Certified check 5% payable to district required with bid. Plans obtainable from R. V. Melkie, chief engineer of district at Turlock.

TURLOCK, Stanislaus Co., Calif.—Aldrin and Alderson, Turlock, at \$1,457.12 awarded contract by Turlock Irrigation District, for improvements in District No. 65, involving 12,900 sq. ft. 2-in. concrete canal lining; 6 concrete structures, involving 8.0 cu. yds. concrete.

- TURLOCK, Stanislaus Co., Calif.**—Until May 4, 2:30 P. M., bids will be received by Anna M. Sorensen, secretary, Turlock Irrigation District, for improvements in Improvement Dist. No. 43, involving:
- (a) 20,244 sq. ft. 2-in. concrete canal lining;
 - (b) 3 concrete structures, involving 2.5 cu. yds. concrete;
 - (c) 14 concrete structures, involving 15 cu. yds. concrete;

(Above work will be paid for by property owners in cash).
 (d) construct 1 wooden bridge.
 Certified check 5% payable to district required with bid. Plans obtainable from R. V. Melick, chief engineer of district, at Turlock.

- TURLOCK, Stanislaus Co., Calif.**—Until May 4, 2:15 P. M., bids will be received by Anna Sorensen, secretary, Turlock Irrigation District, for improvements in Improvement Dist. No. 29, involving:
- (a) 17,670 sq. ft. 2-in. concrete canal lining;
 - (b) 4 concrete structures, involving 4.74 cu. yds. concrete;
 - (c) 17 concrete structures, involving 17 cu. yds. concrete.
- (Above work will be paid for in cash by property owners).
 Certified check 5% payable to district required with bid. Plans obtainable from R. V. Melick, chief engineer of district at Turlock.

TURLOCK, Stanislaus Co., Calif.—Until May 4, 3:00 P. M., bids will be received by Anna Sorensen, secretary, Turlock Irrigation District, for improvements in Improvement Dist. No. 77, involving 705 lin. ft. 30-inch diameter concrete pipe.
 Certified check 5% payable to district required with bid. Plans obtainable from R. V. Melick, chief engineer of district at Turlock.

STREET LIGHTING SYSTEMS

SAN FRANCISCO—R. Flatland, 599 Mission St., at \$9,489 submitted low bid to the Board of Public Works to install ornamental street lighting system in Lower Road of Great Highway and on Laguna Honda Blvd., involving erection and assembling of 75 ornamental concrete standards, including underground system. City will furnish standards. Complete list of bids follows:

R. Flatland.....	\$ 9,483
Alta Electric Co.....	9,590
Butte Elec. & Mfg. Co.....	10,230
H. C. Reid.....	10,250
Weidenthal - Gosliner Co.....	11,791
NeFage-McCoy St. extension of South Virginia St. wires from Cheney to Vassar Street and in East Fourth St. between Virginia St. and Alameda Ave.	11,554
Butte Elec. & Equip Co.....	12,467

RENO, Nevada—City council votes to improve street lighting system involving extension of the "white way" in Chestnut St. from Winefield Park bridge to Second St.; extension of South Virginia St. wires from Cheney to Vassar Street and in East Fourth St. between Virginia St. and Alameda Ave.

MACHINERY AND EQUIPMENT

OAKLAND, Cal.—Hobart Bros. Company, 625 3rd St., San Francisco, at \$1060 submitted lowest bid to East Bay Municipal Utility District, for

nish one portable gasoline engine driven electric welder mounted on steel skids. Following is a complete list of bids received:

Hobart Bros., San Francisco.....	\$1060
Schamm, Inc.....	1076
H. L. Squires Co.....	1090
Roberts Welding Equipment Co. 1092	
E. R. Chinnery.....	1095
Fusion Welding Co.....	1095
National Welding Co.....	1098
Pacific Electric Motor Co.....	1172
Ehy Machinery Co.....	1335
Ed. R. Bacon Co.....	1481
Victor Welding Equipment Co.....	1493
Lincoln Welding Co.....	1595

Bids under advisement until April 17.

ROSWELL, N. M.—New Mexico Military Institute, H. B. Smyrl, secretary of the board of regents, will call for bids at once for the construction of new barracks building at the institute to cost \$150,000.

BRAWLEY, Imperial Co., Cal.—Until 7:30 P. M., May 6, bids will be received by the Brawley Union High School District for the purchase of school bus chassis and one bus body, having a capacity of approximately 50 pupils. Certified or cashier's check or bond for 10% required. A. S. Wolfe, clerk.

OAKLAND, Cal.—Ariss-Knapp Co., 961 41st St., Oakland, at \$1,550 awarded contract by City Port Commission for grading dredge filled area east of Warehouse B, involving 5,000 cu. yds.

COOLIDGE, Ariz.—Arizona Compress & Warehouse Company is taking bids for excavating the site for the company's new \$100,000 cotton compress to be built here.

SAN FRANCISCO—Until April 27, 3 P. M., under Proposal No. 709, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and install shop equipment for School Department. Specifications and further information obtainable from above.

MADERA, Madera Co., Cal.—Until May 5, 11 A. M., bids will be received by L. W. Cooper, county clerk, to furnish and deliver f. o. b. Madera, one Ford Coach, Specifications obtainable from above.

ANTIOCH, Contra Costa Co., Cal.—City council rejects bids to furnish and deliver one and one-half ton dump truck and new bids will be asked at once. E. L. O'Hara is city engineer.

RAILROADS

OAHU, Hawaii—See "Government Work and Supplies," this issue, Bureau of Yards and Docks, Navy Department, Washington, D. C., taking bids for development work in connection with the Naval Ammunition Depot at Oahu, Hawaii, involving the erection of 131 buildings, approximately 1 1/2 miles of railroads, 14 1/2 miles of paved road and electrical, telephone and water supply systems.

SAN FRANCISCO—City Engineer M. M. O'Shaughnessy has approved the application of the Market Street Railway Co., 58 Sutter St., seeking authorization of the supervisors to extend its Turk St. line out Turk and Balboa Sts., a distance of 3 miles with the understanding that the railway company pay \$17,000 for reduction of the grade on Turk St., bet. Broderick and Baker Sts., and the grade at 24th Ave. and Balboa St. The line is to extend to a point between 24th and 31st Aves.

FIRE EQUIPMENT

LIVERMORE, Alameda Co., Cal.—Until April 27, 3 P. M., bids will be received by Elmer G. Still, city clerk, to furnish combination hose wagg and pump. Certified check 10% payable to city clerk required with bid. Delivery to be made 40 days after award of contract, f. o. b. Livermore. Specifications on file in office of clerk.

SAN FRANCISCO—Hercules Equipment and Rubber Co., 11 Mission St. at \$9,112 ft. awarded contract to Board of Supervisors to furnish Park Commission with 12,000 ft. 1-in. rubber water hose, 50-ft. 2-brain molder hose; coupled in best grade lengths with screw and nuts brass ends; 1-in. male coupling on one end only; delivered f.o.b. Park Lodge, Golde Gate Park.

SAN MATEO, San Mateo Co., Cal.—Until May 4, 3 p. m. bids will be received by E. W. Foster, city clerk, to furnish and install traffic signals at intersection of 12th ave. and Hobar ave., with El Camino Real. Certified check 10% required with bid. Specifications on file in office of clerk.

RESERVOIRS AND DAMS

HOOVER DAM, Nevada—Appointment of a purchasing agent and the establishing of an office to handle purchases has been announced by Frank T. Crowe, superintendent of construction for the Six Companies, Inc., contractor for the Hoover Dam. The purchasing of practically every type of material and equipment will be under the supervision of A. H. Baer, whose address is the Clark Bldg., Las Vegas, Nev. Mr. Baer states that he is interested in the products of those items which must have quick delivery. Orders will be placed on the basis of quick delivery and lowest price. The suggestion has been made that salesmen be prepared to quote prices and furnish complete information regarding their products upon first interview. Firms which desire to transact business with Mr. Baer should send him complete catalogs, quoting lowest prices. Quotations shall be f. o. b. Las Vegas, f. o. b. Boulder City and f. o. b. point of origin.

MADERA COUNTY, Cal.—Thermolite Const. Co., 550 Stockton Ave., San Jose, at \$30,784 submitted low bid to State Highway Commission April 15 to construct a reinforced concrete girder bridge across Berenda Slough, consisting of eighteen 26-foot 6-inch spans on concrete pile bents. Complete list of bids follows:

Thermolite Const. Co., San Jose.....	\$30,734
Neves & Hart, San Jose.....	32,114
G. J. Ulrich Const. Co., Modesto 32,435	
Liner & Allen, Merced.....	32,515
A. W. Kitchen, San Francisco.....	33,575
L. C. Clark and C. E. Doughty.....	34,507
Viscalli.....	34,507
Frederickson & Watson and Frederickson Bros., Oakland 36,267	
Nead Const. Co., Wilmington.....	36,547
Oberg Bros., Los Angeles.....	37,832
Robinson-Roberts Co., L. A.....	41,905

Bids held under advisement.

PIPE LINES, WELLS, ETC.

WALNUT CREEK, Contra Costa Co., Cal.—Pacific Gas and Electric Co., 245 Market St., San Francisco, will start construction this month on a natural gas sewer line from Walnut Creek to serve Danville and the Dilable County Club. The line will cost \$50,000 and will consist of 2- and 4-in. pipe.

URBANK, Los Angeles Co., Cal.—**Western Pipe and Steel Co., 5717 Santa Fe Ave.,** plus **27c ft.** for double bed with **Petrolastic** and **Palco** lining, awarded contract by city council to furnish **1,210 ft. 18-in. electrically welded steel pipe.**

SEWERS AND SEWAGE DISPOSAL PLANTS

OAKLAND, Calif.—**City Engineer Her Frickstad** reports the status sewer plans as follows: **Harrison storm sewer** from 24th st. to **Moss**, **90 per cent completed**; **Grand**, **90 per cent completed**; **Greenwood** district sewer, **30 per cent completed**; **Dimond** outlet sewer, **10 per cent completed**; **Dimond sewer district**, **15 per cent completed**; **Moraga** ave. sewer lot, **20 per cent completed**; **Harbor Estates Drive** sewers, **30 per cent completed**; **Mountain Blvd. and Aliso** sewer, **20 per cent completed**; **Leona** district, **5 per cent completed**; **Leona** connection with these projects will be published upon completion of the plans.

SAN FRANCISCO—**M. M. O'Shaughnessy,** city engineer, seeks **\$550,000** in **fiscal year budget** for various **sewer main sewers** in various **districts of the city.**

REDWOOD CITY, San Mateo Co., Calif.—**Faced with threats of injunction suits** if they proceed with the **proposed joint South San Francisco-Bruno and Lomita Park sewer project** under the **Mattoon Act**, the **Bruno city council** has voted to **quest the county supervisors** to **andon further proceedings** in connection with the project. It is **opinion** that **San Bruno** will undertake **struction of its own outfall sewer.**

LOS ANGELES, Calif.—**Bids for furnishing welded steel pipe** under **specifications No. 2418,** opened by **Los Angeles city purchasing agent, Thomas** **April 9, follow:**

- 1) **5615** lin. ft. **24-in. laying lengths,** **40 in. inside diameter welded steel water pipe;** minimum wall thickness **3/8 in.;**
- 2) **same as item one,** except that **end sections** shall be **E. & S. Western Pipe & Steel Co.**—(1) **\$5.45, \$6.35.**
- Consolidated Steel Corp.**—(1) **\$5.33, \$6.48.**
- Los Angeles Mfg. Co.**—(1) **\$6.35, \$7.50.**

SIGNAL HILL, Los Angeles Co., Cal.—**Currie Engineering Co., Anderson** **dg., San Bernardino,** commissioned city to prepare plans for **sewage disposal plant** to cost **\$40,000** and a **lection system** to cost **\$50,000.**

CARPINTERIA, Santa Barbara Co., Calif.—**Markovich & Nikcevic, 1227 E 1st st., Long Beach,** submitted low bid at **\$73,394.75** to **Carpinteria Sanitary District** to construct **lateral sewer.** Unit prices were: **9900** lin. ft. in. sewer main, **\$1.25;** **10,350** lin. ft. in. sewer, **\$1.45;** **5300** lin. ft. 10-in. sewer, **\$1.57;** **165** lin. ft. 12-in. sewer **25;** **12,000** lin. ft. 6-in. house connections, **\$1.25;** **9** flush manholes, **\$35;** **4** drop manholes, **\$35;** **4** drop manholes, **\$39** 21 lampholes, **\$20;** **40** chimneys, **\$2.50.**

FRESNO, Fresno Co., Cal.—**City** **declares intention (11-D)** to **construct in diffused clay pipe sewer** portions of **Belmont** ave., including **in. vit. clay pipe connections;** **2** concrete manholes with **c. i. frames**

and covers; **4-in.** on **6-in.** wye branches, **1911 Act.** **Hearing April 30.**—**33.**

FRESNO, Fresno Co., Cal.—**Until April 23, 10:30 a. m.** bids will be received by **H. S. Foster,** city clerk, (109) to construct **sewers** in **Const** **avenue**, including: (a) **45** lin. ft. **6-in. vitrified pipe sewer;**

- (b) **1** manhole.
- 1911 Act.** **Certified check 10% payable to city** required with bid. **Plans on file** in office of **clerk. C. C. Valkenburg,** city engineer.

—**33.**

OAKLAND, Cal.—**City** will call an election in **May** to vote bonds of **\$1,300,000** to finance construction of **thirty-three sewer projects** in various sections of the city. **City Engineer Her Frickstad** has outlined the following program:

Grand ave., **Embarcadero** to **Piedmont** line, **\$147,300.**

Ninth ave., on **Ninth** ave., **East** **Sixteenth** st., to **estuary,** on **East** **Fourteenth** st., **Sixth** ave., to **Ninth** ave., on **Twelfth** ave. and on **East** **Eighth** st., to **Ninth** ave., **\$123,100.**

Fourteenth ave., **East** **Twenty-fourth** st., to **estuary,** **\$141,800.**

Harrison blvd., on **Santa Clara,** **Vernon** to **Harrison,** on **Harrison,** **Santa Clara** to **Esplanade,** **\$41,800.**

Twenty-third ave., on **Twenty-third** ave., **Seventeenth** st., to **Livingston** st., on **Livingston,** **Kennedy** to **estuary,** on **East** **Seventeenth** between **Twenty-second** and **Twenty-third** ave., on **East** **Sixteenth** st., **Twenty-third** to **Twenty-sixth** ave., **\$130,800.**

Nineteenth ave., on **Eighteenth** ave., **Foothill** to **East** **Fifteenth,** on **East** **Fifteenth,** **Eighteenth** to **Nineteenth,** on **Nineteenth** ave., **East** **Fifteenth** to **East** **Twelfth,** **\$10,450.**

Racine lateral—**On** **Telegraph,** **Sixty-sixth** st. to **Alcatraz;** on **Alcatraz,** **Telegraph** to **Racine;** on **Racine,** **Alcatraz** to **Fifty-eighth;** on **Fifty-eighth** st., **Telegraph** to **Dover;** on **Dover,** **Fifty-eighth** to **Fifty-sixth** st.; on **Fifty-sixth** st., **Dover** to **Market;** **Fifty-sixth** to **Fifty-second** st.; on **Fifty-second**, **Market** to **Tennant** **Creek,** **\$146,300.**

Telegraph ave.—**Sixteenth** st. to **Twentieth** st., **\$13,200.**

Athol ave.—**Athol** and **Brooklyn** to **Park** blvd., **\$14,850.**

Glen Echo creek—**Twenty-sixth** and **Valdez** to **Harrison** and **Twenty-third,** **\$86,900.**

Grove—**On** **Grove,** **Thirty-sixth** st. to **Thirty-eighth** st., **\$7,150.**

Hopkins st., **Diamond** district—**On** **Hopkins,** **Lincoln** ave., westerly to **Sausal** creek; on **Thirty-eighth** st., **La Cresta** easterly to **Sausal** creek, **\$14,000.**

Fifty-fourth ave., creek—**Bond** and **Fifty-second** ave., to **Fifty-fourth** ave. and **S. P. railroad,** **\$73,700.**

Plymouth st. lateral—**Eighty-fifth** ave. westerly to **Seventy-eighth** ave., and **Arroyo Viejo** creek, **\$25,300** to **Eighty-fifth** ave.—**Elmhurst** ave. to **Eighty-ninth** ave., through **right-of-way** **Ninety-second** ave., to **Eighty-ninth** ave., **\$12,650.**

Thirty-fifth ave., **Penniman** and **Davis**—**Penniman** easterly and **Thirty-fifth** ave. to **Penniman** westerly on **Thirty-fifth** ave., then westerly on **Penniman,** **Thirty-fifth** ave., to **Peralta** creek, **Lyon** ave., and **Thirty-fifth** ave. to **Davis.** Then westerly on **Davis** to **Peralta** creek, **16,500.**

Russet st., **Ninety-second** ave., westerly to **Elmhurst** outlet, **\$28,600.**

Madonna blvd., **Lakeshore** ave. to **Portal,** **\$30,250.**

Forty-first and **Broadway** and **Ridgeway,** **\$14,300.**

Mountain blvd., **Thorn** road westerly **600** ft., **\$6,650.**

Maple ave., **Kansas** to **Hopkins,** **\$2,200.**

Park road, cross roads to **220** feet easterly of **Edith** and **Park** road, **\$4,400.**

Moraga road, **Hampton** road to **Park** road, **\$18,200.**

Thompkins ave. outlet, **Thompkins** and **Wilkie** to **car** line, **\$7,150.**

Seminary ave., **sanitary** relief, **\$50,000.**

Elmhurst sanitary relief, **\$77,350.**

Myrtle st., **Fourteenth** st. to **Third** st., **\$14,300.**

Filbert st., **Twelfth** st. to **Third** st., **\$13,750.**

Union st., **Tenth** st. to **Third** st., **\$8,470.**

Kirkham st., **Tenth** st. to **Third** st., **\$8,800.**

Chester st., **Eighth** st. to **Third** st., **\$6,270.**

Henry st., **Eighth** st., to **Third** st., **\$4,730.**

SIGNAL HILL, Los Angeles Co., Cal.—**City Council** orders plans prepared for installation of **additional water mains;** estimated cost **\$30,000.**

FAIRFIELD, Solano Co., Cal.—**City trustee** will call election shortly to vote bonds of **\$5500** to finance repairs and replacements at **outfall sewer** which amount includes **\$600** for incidentals. **A. M. Jensen,** engineer, **63** **Post St., San Francisco.**

SAN LUIS OBISPO, Cal.—**City** votes bonds of **\$18,000** to construct **digester mechanism** and other **mechanical equipment,** distributing **main** and other additions to the **sewage disposal plant.** **Callie M. John** is city clerk and **Leon Moore,** city engineer.

PALO ALTO, Santa Clara Co., Cal.—**In** conjunction with the **Stanford University,** the city of **Palo Alto** will file application with the **State Department of Public Health,** seeking a permit to **dump raw sewage** into **San Francisco Bay** at a point about **3,000** ft. north of **Sand Point** with the exit approximately **1,000** ft. off shore. With this in view, a **22-in. pipe** line will be constructed from the proposed plant near the **Junction of Arroyo Rd. and E Willow Rd.** on the **marsh** land directly to the **terminal** in the bay. This step is preliminary to the plan of **Palo Alto** and **Stanford** to provide to serve both communities. A **bond proposition** probably **issuing** in the neighborhood of **\$100,000,** is contemplated to finance the city's part of the expense.

SAN FRANCISCO—**Louis J. Cohn,** 1 **De Haro** st., at **\$13,673** submitted low bid to **Board of Public Works** to construct additions to the **Baker** and **Pierce Street** **Outfall Sewers.** Complete list of bids follows: (a) **Pierce street sewer;** (b) **Baker street sewer.** **L. J. Cohn,** (a) **\$4,000;** (b) **\$9,673, \$13,673.**

M. Murphy, (a) **\$5,600;** (b) **\$8,300, \$13,900.**

C. B. Eaton (a) **\$5,300;** (b) **\$9,300, \$14,600.**

C. W. and W. H. Haun, (a) **\$5,990;** (b) **\$9,640, \$15,630.**

McDonald and **Kahn,** (a) **\$6,000;** (b) **\$11,200, \$17,200.**

M. B. McGowan, (a) **\$9,060;** (b) **\$10,750, \$19,310.**

Healy-Thibbitts Co., (a) **\$12,645;** (b) **\$13,612, \$26,257.**

FAIRFIELD, Solano Co., Cal.—**May 23** is date set by city council to vote bonds of **\$5500** to finance repairs and replacements at **outfall sewer** which amount includes **\$600** for incidentals. **A. M. Jensen,** engineer, **63** **Post St., San Francisco.**

BOULDER CITY, Nev.—Until 2 P. M., April 20, bids will be received by the U. S. Bureau of Reclamation, 1441 Welton St., Denver, Colo., for furnishing 165 round cast iron manholes, 21-in. clear opening, 8-in. high, with solid knobby covers. The cast iron shall have an ultimate tensile strength of not less than 21,000 lbs. per square inch. Proposal No. 3123-A, Boulder Canyon. A. McD. Brooks, purchasing agent.

LOS ANGELES, Cal.—Radich & Granich, 410 N. Formosa Ave., awarded contract by board of public works at \$149,843.95 to construct complete a sewer system in 11th St., between Wilmington Ave. and Central Ave. Engineers estimate is \$116,375.78.

STOCKTON, San Joaquin Co., Cal.—Until April 27, bids will be received by city council to construct storm sewers in Edison St., bet. Harding Way and Elmer St., and in San Joaquin St., bet. Channel St. and Miner Ave., and in Center St., bet. Lafayette and Stockton Channel. Plans obtainable from Lyle Payton, city engineer. Quantities of materials will be published shortly.

MISCELLANEOUS CONSTRUCTION

PALO ALTO, Santa Clara Co., Cal.—City council has referred plans for the proposed Embarcadero subway to the city planning commission and the Board of Public Works for consideration. The Council is determined, however, that no municipal election ballot regarding the construction of the subway. It proposes to ask the State Railroad Commission to allocate the cost of the project more equally between the city and the Southern Pacific Railroad than is contemplated in the provisional arrangement, by which the city would pay about two-thirds and the railroad one-third of the \$746,000, which is the estimated cost. J. F. Eynbee, is city engineer.

WATER WORKS

GRIDLEY, Butte Co., Calif.—Until April 27, 3 P. M., bids will be received by J. L. Lewis, city clerk, to furnish and deliver f.o.b. Gridley: 1,500 ft. 6-in. class B cast iron bell and spigot pipe; 2,000 ft. 4-in. do; 8 1/4-in. double hub fittings side outward tap 2-in. standard thread 2 6x4 reducers, bell and spigot; 2 4x4 all bell tees; 12 4-in. plugs tap 2-inch standard thread; 6 6-in. do; Bids will be accepted on plain bell and spigot, also pre-caulked or prepared joints. Previous bids rejected due to error in advertising. Certified check 10% payable to city clerk required with bid.

FAIRFIELD, Solano Co., Cal.—City trustees will call election shortly to vote bonds of \$42,500 to finance improvements and extensions to the water system. Estimates of cost for the improvements are summarized by A. M. Jensen, engineer, 55 Post St., San Francisco, as follows:
Labor and material to complete well\$13,150
New mains, labor and material 15,000
1,000,000 gal. tank and 100 ft. tower, labor, material 7,750
Deep well turbine pump 1,600
Labor and material to repair breaks in old lines due to increased pressure on mains 2,000
Total\$42,500

BEN LOMOND, Santa Cruz Co., Cal.—Ben Lomond Redwood Park Corp. is having plans prepared for water system improvements, involving reconstruction of the diversion works at Dean Creek and the installation of additional storage facilities of not less than 20,000 gals.

VENTURA, Ventura Co., Cal.—Until 10 A. M., May 5, bids will be received by county supervisors to furnish one direct connected motor driven deep well turbine pump and motor, with necessary wiring, fittings, and discharge pipe line and fittings. The following is an estimate of the work and materials:

- (1) one deep well turbine pump with top of bowl set at 120 ft. below ground;
- (2) one 40 H. P. motor;
- (3) excise, 100 ft. 16-in. discharge casing pipe from pump to tank. Charles W. Petit, county surveyor, L. E. Hallowell, county clerk. Cash Contract No. 555.

OAHI, Hawaii—See "Government Work and Supplies," this issue. Bureau of Yards and Docks, Navy Department, Washington, D. C., is taking bids for development work in connection with the Naval Ammunition Depot at Oahu, Hawaii, involving the erection of 131 buildings, approximately 1 1/2 miles of railroads, 1 1/2 miles of paved road and electrical, telephone and water supply systems.

BOULDER CITY, Nev.—Until 2 P. M., April 21, bids will be received by the U. S. Bureau of Reclamation, 1441 Welton St., Denver, for furnishing pipe, fittings, valves, specials and miscellaneous materials for water and sewer systems for Boulder City, Nev., under Specifications No. 517-D. The items to be bid on are:

- (1) cast iron pipe, minimum laying length per joint 12 ft., as follows:
 - (a) 2400 ft. 2-in. cast iron bell and spigot pipe, poured lead joints, or
 - (b) 2400 ft. 2-in. inside diam. iron bell and spigot pipe, pre-primed lead joints, or
 - (c) 2400 ft. 2-in. inside diam. cast iron pipe in approx. 12-ft. laying lengths screwed joints with couplings.
 - (2) cast iron bell and spigot pipe, minimum laying length 16 ft., poured lead joints, as follows:
 - (a) 33,505 ft. 6-in. cast iron pipe laying length;
 - (b) 6500 ft., 8-in. cast iron pipe laying length;
 - (c) 5200 ft., 10-in. cast iron pipe laying length;
 - (d) 2000 ft. 12-in. cast iron pipe laying length;
- Prices for materials under item (2) to be lump sum.
- (3) cast iron bell and spigot fittings, as per specifications, lump sum price.
 - (4) 85 two-nozzle, 2 1/4-in. fire hydrants, 2-ft. bury.
 - (5) iron body, bronze-mounted, double disc, bell and bell gate valves, as follows:
 - (a) 2 2-in. gate valves;
 - (b) 181 6-in. gate valves;
 - (c) 33 8-in. gate valves;
 - (d) 14 10-in. gate valves;
 - (e) 3 12-in. gate valves.
- Lump sum price for all materials under item (5).
- (6) valve boxes, covers marked "water" as follows:
 - (a) 2 with base for 2-in. valves;
 - (b) 204 with base for 6-in. to 8-in. valves;
 - (7) 17 with base for 10-in. to 12-in. valves.
- Lump sum price for all materials under item (6).
- (7) copper service corporation stop "Mueller" thread inlet and cover flange outlet as follows:
 - (a) 620 3/4-in. corporation stop;
 - (b) 5 1-in. corporation stop;
 - (c) 13 1 1/2-in. corporation stop.
- Lump sum price for materials under item (7).
- (8) copper roundway curb stops, inverted key type with copper flange at both ends, as follows:
 - (a) 465 3/4-in. roundway curb stops;
 - (b) 13 1 1/2-in. roundway curb stops.
- Lump sum price for all materials under item (8).
- (9) copper pipe couplings, copper-copper type, as follows:
 - (a) 150 3/4-in. two-part couplings 10 1/2 in. two-part couplings
 - (c) 15 1 1/2-in. two-part couplings
- Lump sum price for materials under item (9).
- (10) straight line valve yokes with inverted ground key roundway curb stops as follows:
 - (a) 150 3/4-in. meter, 3/4-in. copper service;
 - (b) 5 1-in. meter, 1-in. copper service.
- Lump sum price for materials under item (10).
- (11) 150 cast iron covers for meter boxes, hinged lid with lock, size 18 in. diam. box.
 - (12) 13 1 1/2-in. steer washers, to be 18 in.
 - (13) 13 service boxes, top marked "Water" for 1 1/2-in. curb stops.
 - (14) copper service pipe No. 16 W 8 in. 60-ft. coils as follows:
 - (a) 18,540 ft. 3/4-in. inside dia.
 - (b) 540 ft. 1-in. inside dia.
 - (c) 1,020 ft. 1 1/2-in. inside dia.
- Lump sum price for materials under item (14).
- (15) water meters as follows:
 - (a) 200 5/8-in. water meters, direct positive displacement type w bronze case;
 - (b) 5 1 1/2-in., same;
 - (c) 1 water meter, compound, direct current type, six 6 ft x 1 1/2 in.
- Lump sum price for materials under item (15).
- (16) lead joint materials as follows:
 - (a) 30,000 lbs. virgin pig lead;
 - (b) 1,200 lbs. untarred jute.
- Lump sum price for materials under item (16).
- (17) alternative to item (17): clay vitrified salt glazed bell and spigot sewer pipe and fittings as follows:
 - 20,000 ft. 4-in. std. strength;
 - 22,000 ft. 6-in. std. strength;
 - 7,200 ft. 8-in. std. strength;
 - 1,600 ft. 10-in. std. strength;
 - 7,700 ft. 12-in. std. strength;
 - 300 pieces 18-in. std., in 24-in. lengths.
- wyes, bends, tees, etc., as per specifications.
- Lump sum price for materials under item (17).
- (17A) alternate to item (17). Cement concrete bell and spigot sewer pipe and fittings as follows:
 - 20,000 ft. 4-in. sewer pipe;
 - 22,000 ft. 6-in. sewer pipe;
 - 7,200 ft. 8-in;
 - 1,600 ft. 10-in;
 - 7,700 ft. 12-in.
- with wyes, bends, etc., as per specifications.
- Lump sum price for all material under item (17A).
- (18) \$500 concrete sewer manholes and catchbasin blocks, 3-in. high and with 24-in. inner radius. Combination bids for any two or more items may be submitted as shown on bid form.
- A proposal guaranty in the sum of 10% required with each bid. R. F. Walter is the chief engineer.

Friday, April 18, 1931

SAN FRANCISCO—M. M. O'Shaughnessy, city engineer, seeks \$134,100 appropriation in coming fiscal year to secure water system.

LAGUNA BEACH, Orange Co., Cal.—Wron-Jackson Co., 2150 E. Stanton, Huntington Park, awarded contract by Laguna Beach County Water District, at \$1957, to furnish one centrifugal pump of 600 G. P. M. operating against a head of 340 ft. DeLaval Turbine Co. bid \$1955; Allison Co. submitted an irregular

ANTECA, San Joaquin Co., Cal.—R. Van Sandt, superintendent of a municipal water system, authorized to purchase four fire hydrants and a quantity of valves to be used in connection with extensions to water system. Contract for pipe in connection with these extensions awarded to Pacific States Cast Iron Pipe Co., San Francisco, as reported in issue of 4/15.

SAN BRUNO, San Mateo Co., Cal.—Until May 13, 8 P. M., bids will be received by Emil A. Bohm, city clerk, to construct extension to municipal water system in Third Addn. Project values: (1) 6,000 ft. 2-in. wrought iron pipe. (2) 1,570 ft. 4-in. cast iron pipe. (3) 9 1/2-in. valves. (4) 7 1/2-in. valves.

certified check or bond 10% required with bid. Plans on file in office of clerk and obtainable from George A. Reese, engineer, Stafford Bldg., Redwood City.

BOULDER CITY, Nev.—Until 2 p. M. April 21, bids will be received by U. S. Bureau of Reclamation, 1441 Stout St., Denver, for furnishing pipe, fittings, valves, specials and miscellaneous materials for water and sewer systems for Boulder City, Nev. See Specifications No. 517-D.

LOS ANGELES, Cal.—Until 11 A. M. April 23, bids will be received by Los Angeles city purchasing agent, Thomas Oughton, for furnishing (1) mechanical clarifier for square tank; (2) alternate proposal, one mechanical clarifier for circular tank. See Specification No. 2424, f. o. b. Department of water and power construction site, Grant and McFarland st., Washington.

BOULDER CITY, Nev.—Contracts for furnishing pipe to the U. S. Bureau of Reclamation at Denver for use of the high pressure pipe line at Boulder City for the Boulder City water supply Project has been awarded by the Department as follows:

SCHEDULE I to Midwest Piping & Supply Co., Salt Lake City, Utah, at \$721.04, involving 4453 ft. 10 1/2-in. D. and 2342 ft. 12 1/2-in. O. D. seamless line pipe, and 228 ft. 10 1/2-in. D. and 1020 ft. 12 1/2-in. O. D. on bent to stub as specified.

SCHEDULE III to Associated Piping & Engineering Co., Ltd., 1915 E. 8th St., Los Angeles, at \$11,198.68 involving 5720 ft. 12 1/2-in. line pipe and 60 ft. 12 1/2-in. O. D. bent as specified. **SCHEDULE IV** to Thomas Haverly Co., 316 East 8th St., at \$29,046.93, involving 12,746 ft. 12 1/2-in. O. D. and 49 ft. 12 1/2-in. bent as specified.

SCHEDULE VI to Mine & Smelter Supply Co., Denver, Colo., at \$4285, involving 1916 couplings for 10 1/2-in. and 7 1/2-in. pipe.

ANTIOCH, Contra Costa Co., Cal.—City Engineer E. L. O'Hara is completing plans for sewer and water extensions in the Wills Addition. Bids will be asked shortly.

FAIRFIELD, Solano Co., Cal.—May 23 is date set by the city trustees to vote bonds of \$42,500 to finance improvements to the water system for which surveys were recently completed by A. M. Jensen, engineer, 68 Post St., San Francisco. Itemized costs in connection with the work follow: Labor and material to complete well \$13,150 New mains, labor and material 18,000 1,000,000 gallon tank and 100 ft. 12-in. labor, material 7,750 Deep well turbine pump 1,600 Labor and material to repair breaks in old lines due to increased pressure on mains 2,000 Total \$42,500

PLAYGROUNDS & PARKS

SAUSALITO, Marin Co., Cal.—Vincent and Magorka, Sausalito, submitted low bid to Sausalito School District to improve playground areas of the Central School yard, Litho and Calendona Streets, and at the South School yard, North and Third Streets. Bids referred to secretary of the Board, S. G. Ratto, for tabulation. Bids were also submitted by: A. T. Howe, Santa Rosa; Anchor Post Fence Co.; Standard Fence Co.; F. J. Main, Fairfax; E. P. Finnigan, San Francisco and Michel and Pfeffer Iron Works.

STREETS AND HIGHWAYS

SAN RAFAEL, Marin Co., Cal.—Until April 27, 11 A. M., bids will be received by Robt. E. Graham, county clerk, for grading 3.6 miles of the San Gerónimo-Nicasio Road from San Gerónimo to Nicasio Valley, involving (1) 63,000 cu. yds. excavation without classification; (2) 85,000 sta. yds. overhaul; (3) 376 lin. ft. 12-in. corrug. metal pipe; (4) 94 lin. ft. 15-in. do; (5) 100 lin. ft. 24-in. do; (6) 70 lin. ft. 30-in. do; (7) 120 lin. ft. 36-in. do; (8) 30 lin. ft. 60-in. do; (9) 20 lin. ft. 12-in. do; move and reset. (10) 30 lin. ft. 24-in. do; move and reset.

(11) 18 cu. yds. class A Portland cement concrete (headwalls); (12) 600 lbs. reinf. steel (headwalls). County will furnish corrugated metal pipe. Specifications obtainable from Rodney Messner, county surveyor.

REDWOOD CITY, San Mateo Co., Cal.—Until 10 A. M., May 4, bids will be received by E. B. Hinman, county clerk, for grading a portion of Sneath Road from south boundary of Sullivan Estate Company's 11,253-acre parcel of land to east boundary line of Ocean Shore Company's 19,952-acre parcel of land in San Pedro Rancho and First Road District. Cert. check 10% payable to county required. Specifications on file in office of county clerk. James S. James, county surveyor.

SAN MATEO COUNTY, Cal.—Basich Bros. Const. Co., Torrance, at \$212,333 awarded contract by State Highway Commission to pave with Portland cement concrete 3.0 miles between Burlingame and San Mateo.

WILLOW GLEN, Santa Clara Co., Cal.—Town trustees declare intention (a) to improve Willow Street, Acqui and Imp. District No. 2, involving grading; 2-in. asphalt concrete surface pavement on 3 1/2-in. asphalt concrete base; cement concrete curbs, gutters, walks; cement concrete pipe storm water sewer with drains, inlets and manholes. (b) Acqui and Imp. A. 1825 Hearing May 4. Dana Thomas, city clerk. H. N. Bishop, city engineer, Bank of Italy Bldg., San Jose.

WHITE PINE COUNTY, Nevada—Until May 7, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading 9,626 miles of Section A of Route 13, Midland Trail (Ely-Holt Creek) National Forest Highway, Nevada National Forest and Federal Lands Project No. 1, Part of Midland Trail (Ely-Tonopah) State Route No. 4, White Pine County, Nevada. Project involves: 124,400 cu. yds. unclassified excav.; 1,451 cu. yds. unclass. excav. for structure; 10,800 sta. yds. overhaul; 9,620 miles finishing earth grad. rd.; 133.2 cu. yds. Class "A" concrete; 110.8 cu. yds. Class "B" concrete; 12,350 lbs. reinforcing steel; 102 cu. yds. cement rubble masonry 3,246 lin. ft. C. M. pipe; 300 lin. ft. move fence; 28 each right-of-way monuments; 200 cu. yds. hand laid rip-rap.

Plans obtainable from engineer on deposit of \$10, returnable, checks for same to be made payable to Federal Reserve Bank of San Francisco.

SAN JOSE, Santa Clara Co.,—Until April 27, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve Lincoln avenue in Supervisor District No. 4. Specifications obtainable from Robert Chandler, county surveyor, on payment of \$1. Quantities of materials involved will be published shortly.

SAN JOSE, Santa Clara Co.,—Until April 27, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve Church Ave. in Supervisor District No. 1. Specifications obtainable from Robert Chandler, County Surveyor, on payment of \$1. Quantities of materials involved will be published shortly.

SAN JOSE, Santa Clara Co.,—Until April 27, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve Pearl Ave. in Supervisor District No. 5. Specifications obtainable from Robert Chandler, county surveyor, on payment of \$1. Quantities of materials involved will be published shortly.

ANTIOCH, Contra Costa Co., Cal.—City Engineer E. L. O'Hara is completing plans for sewer and water extensions in the Wills Addition. Bids will be asked shortly.

REDWOOD CITY, San Mateo Co., Cal.—County Surveyor James S. James is making surveys to straighten and widen the Lo Honda Road.

OAKLAND, Cal.—City council has started proceedings to improve Mountain Blvd. from Redwood Road to Bennett St.; estimated cost \$3500. Walter N. Frickstad, city engineer.

PALOS VERDES, Los Angeles Co., Cal.—The Owl Truck Co., 117 N. Tamarin St., Compton awarded contract by Palos Verdes Corp., Gardner Bldg., Palos Verdes, to construct ten miles of highway in the 13,000-acre estate of the corporation of Olmsted Frank A. Vanderlip is the principal owner. The work includes the grading of a 35-ft. roadway and paving to a width of 27 ft. with oil macadam. The approximate quantities are: (1) 315,000 cu. yds. grading and excavation; (2) 154,000 sq. yds. 3-course rock and oil pavement with 6-in. disintegrated granite sub-base.

There were 14 bids. Details of prices were withheld by the owner. Geo. Gibbs, representing Olmsted Bros., landscape architects, Gardner Bldg., Palos Verdes, is the engineer.

WILLOW GLEN, Santa Clara Co., Cal.—Town trustees declare intention (\$3) to improve Eleventh Avenue, Acq. and Imp. District No. 2, involving grading; 1½-in. asphalt conc. surface, 3-in. asphalt concrete base pavement; cement concrete curbs, gutters, walks. Acq. and Imp. Act 1925. Hearing May 4. Dana Thomas, city clerk. H. N. Bishop, city engineer, Bank of Italy Bldg., San Jose.

WILLOW GLEN, Santa Clara Co., Cal.—Town trustees declare intention (\$80) to widen and extend Kotenberg Avenue in Acq. and Imp. Dist. No. 1, involving grading; pave with 1½-in. asphalt conc. surface on 3-in. asphalt concrete base; cement curbs, gutters, sidewalks and driveways; corr. iron culverts. Acq. and Imp. Act 1925. Hearing May 4. Dana Thomas, city clerk. H. N. Bishop, city engineer, Bank of Italy Bldg., San Jose.

MENLO PARK, San Mateo Co., Cal.—City trustees declare intention (\$1-2) to improve Oak Grove and Cherry Avenues, Laurel and Mills Streets, and Glenwood Avenue, involving:

- (1) 3,000 cu. yds. excavation;
 - (2) 1,200 cu. yds. embankment;
 - (3) 40,620 sq. ft. 1½-in. Emulsified asphalt. pave. on 4-in. rock base;
 - (4) 30,000 sq. ft. resurfacing;
 - (5) 7,193 lin. ft. concrete curb;
 - (6) 72 driveway entrances;
 - (7) 6 part circle culverts;
 - (8) 390 lin. ft. sewer connections;
 - (9) 44,825 sq. ft. concrete sidewalks.
- 1911 Act. Bond Act 1915. Estimated cost, \$20,000. Hearing April 21. Fannie I. Kurtz, city clerk. Bert J. Mehl, city engineer.

MONO COUNTY, Cal.—Robinson-Roberts Co., Rives-Strong Bldg., Los Angeles, at \$129,621 awarded contract by State Highway Commission to grade 14.2 miles between 2 miles west of Bridgeport and Sonora Junction.

LOS ANGELES COUNTY, Cal.—C. M. Morgan Paving Co., Los Angeles, at \$399,220 awarded contract by State Highway Commission to grade 5.0 miles between 4 miles north of La Canada and Colby Canyon.

SONOMA COUNTY, Cal.—J. V. Galbraith, Petaluma, at \$14,399 awarded contract by State Highway Commission to grade and pave with Portland cement concrete, 1.1 miles at Lyton Overhad Crossing.

LOS ANGELES COUNTY, Cal.—W. F. Peck Co., 1120 N. Las Palmas Ave., Los Angeles, at \$422,221 submitted low bid April 15 to State Highway Commission to grade 7.3 miles between Canton Creek and Elgin Creek. Complete list of bids follows:

W. F. Peck Co., Los Angeles, \$422,221
 Granfield, Farrar & Carlin, San Francisco 505,682
 H. W. Rohl Co., Los Angeles, 530,655
 Vanderhelen & Pierson, Cascade 534,262
 Geo. Pollock Co., Sacramento, 539,476
 Frederickson & Watson, Oakland 551,007
 Gibbons & Reed, Burbank, 678,510
 Bids held under advisement.

SAN FRANCISCO—M. M. O'Shaughnessy, city engineer, seeks \$250,000 appropriation in coming fiscal year budget to finance construction of a road from Mather to Hetch Hetchy to complete an agreement between the city and the Secretary of the Interior.

ALAMEDA COUNTY, Cal.—Jones & King, Hayward, at \$34,535 submitted low bid April 15 to State Highway Commission to grade and pave with Portland cement concrete, 0.5 mile between Stanton Ave. and Foothill Blvd.

Complete list of bids follows:
 Jones & King, Hayward, \$34,535
 M. J. Bevanda, Stockton, 39,147
 Bids held under advisement.

PLUMAS-LASSEN COUNTIES, Cal.—Irving L. Ryder, 305 Almaden Ave., San Jose, at \$96,533 submitted low bid to State Highway Commission April 15 to surface with untreated crushed gravel or stone, 25.3 miles bet. Chester and Willards. Complete list of bids follows:

Irving L. Ryder, San Jose, \$96,533
 Hemstreet & Bell, Marysville, 109,821
 Granite Const. Co., Watsonville 110,717
 Tiffany, McReynolds & Tiffany, San Jose 114,674
 D. McDonald, Sacramento, 119,171
 C. W. Wood, Stockton, 119,328
 Fennell Co., Sacramento, 121,636
 N. M. Ball, Porterville, 125,367
 F. W. Nightbert, Bakersfield, 129,781
 Bids held under advisement.

OAKLAND, Calif.—City council declares intention to improve Mountain Blvd. between Redwood Road and Bennett Place, involving:

- (1) 15,368 sq. ft. grading;
- (2) 295 lin. ft. concrete curb;
- (3) 591 sq. ft. concrete gutter;
- (4) 3,875 sq. ft. penetration macadam pavement;
- (5) 47 lin. ft. 12-in. vit. pipe conduit;
- (6) 1 storm water inlet, 34-in. opening;
- (7) 40 lin. ft. 8-in. vit. pipe sewer;
- (8) 1 manhole;
- (9) 1 lamphole, 12-in.;
- (10) 1 lamphole, 8-in.;
- (11) 8 wye branches.

Estimated cost \$3,542.70. 1911 Act. City will pay 64½% of cost from the General Fund. Hearing May 7. P. C. Merritt, city clerk. W. N. Frickstad, city engineer.

OAKLAND, Cal.—City council declares intention to improve portions of Plymouth St., 99th Ave. and Cherry St., involving:

- (1) 4,571 cu. yds. excavation;
- (2) 2,802 lin. ft. concrete curb;
- (3) 6,092 sq. ft. concrete gutter;
- (4) 32,178 sq. ft. penetration macadam pavement;
- (5) 170 lin. ft. 8x24-in. corr. iron and concrete culvert;
- (6) 87 lin. ft. 8x29-in. do.;
- (7) 6 handholes;
- (8) 250 lin. ft. 8-in. vit. pipe sewer
- (9) 1 8-in. lamphole;
- (10) 10 wye branches.

Imp. Act 1915. Hearing April 25. Frank C. Merritt, city clerk. Walter N. Frickstad, city engineer.

MONTREY COUNTY, Cal.—Until May 6, 2 P. M., bids will be received by State Highway Commission to treat with heavy fuel oil to a width of 3 ft. on each side of the existing pavement, 10.1 miles between Chualar and Salinas.

SISKIYOU COUNTY, Cal.—Until April 20, 2 P. M., bids will be received by H. S. Comby, district engineer, State Highway Commission, Reddick, to treat with heavy fuel oil as a palliative, 21 miles between Shasta River and Walker Station.

PLACER COUNTY, Cal.—Until May 6, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland cement concrete, 3.4 miles between Wise Fork House and Auburn.

REDWOOD CITY, San Mateo Co., Cal.—Until April 20, 8 P. M., bids will be received by B. E. Myers, city clerk, (N-2) to improve Main Street, bet. south line of Bradford Street to the south line of the Bay Shore Highway, involving:

- (1) reinforced concrete bridge of 7y 30-ft. spans for full width of street with 4-wing walls over Redwood Creek;
 - (2) 1100 cu. yds. excavation;
 - (3) 500 cu. yds. backfill;
 - (4) 522 cu. yds. concrete (1:2:4);
 - (5) 72,808 lbs. steel;
- Storm Sewer**
- (6) 295 lin. ft. 12-in. concrete pipe;
 - (7) 15 lin. ft. 8-in. do.;
 - (8) 2 catchbasins;

Road Level

- (9) 200 cu. yds. excavation;
- (10) 5000 cu. yds. embankment.

Estimated cost \$25,500. 1915 Bond Act. City will pay \$40,000 of cost from general fund. Plans on file in office clerk. C. L. Dimmitt, city engineer.

CALAVERAS COUNTY, Cal.—J. Reeves, Sacramento, submitted a bid to the U. S. Bureau of Public Roads, San Francisco, at \$43,685.55 for grading Section B, Big Trees-Dorrington, Ebbetts Pass National Forest Highway in Stanislaus National Forest, 3.08 miles in length, involving:

- (1) 21.1 acres clearing;
- (2) 71,500 cu. yds. excav., unclass.;
- (3) 995 cu. yds. excav., unclass., for structures;
- (4) 85,700 sta. yds. overhaul;
- (5) 3,085 miles finishing extra grade road;
- (6) 45 cu. yds. reinf. steel;
- (7) 1750 lbs. reinf. steel;
- (8) 1960 ft. corr. metal pipe in place
- (9) 78 lin. ft. remove, clean and relay C. M. pipe;
- (10) 16,000 lin. ft. protection ditch;
- (11) 63 right of way monuments.

Engineer's estimate, \$46,154.70.

SANTA CRUZ COUNTY, Cal.—Healy-Tibbitts Construction Co., 6 Pine St., San Francisco, at \$207,483.3 awarded contract by State Highway Commission for 6.5 miles of highway between Waterman Switchback and Saratoga Gap, 3.5 miles to be graded and surfaced with crusher run base and the entire length to be paved with bituminous macadam. Complete list of unit and total bids published in issue of April 9.

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.
 Phone GARfield 4374

San Francisco

TUOLUMNE COUNTY, Calif.—Mat-
n, Allen & Ellison Bros., Ft. Bragg,
d., submitted low bid to U. S. Bu-
au of Public Roads, San Francisco,
\$48,154.30 for grading Section B,
ng Barn-Stoddard Springs, Sonora
ss National Forest Highway in
anslaus National Forest, 3.74 miles
length, involving:

- 1) 25 acres clearing;
 - 2) 700 cu. yds. excav., unclass.;
 - 3) 140 cu. yds. excav., unclass., for
structures;
 - 4) 48,000 sta. yds. overhaul;
 - 5) 3.7 miles finishing cart graded
road;
 - 6) 605 cu. yds. mtl. hauling selected
tackfill material;
 - 7) 1 cu. yd. class A concrete;
 - 8) 77 cu. yds. class B concrete;
 - 9) 3100 lbs. reinf. steel;
 - 10) 2196 lin. ft. corr. metal in place;
 - 11) 56 right of way monuments;
 - 12) 12,250 ft. protection ditch;
 - 13) 52 lin. ft. remove and stockpile
12-in. C. M. P.
- Engineer's estimate, \$56,236.60.

HUMBOLDT COUNTY, Nev.—J. N.
dford, Fallon, Nevada, at \$118,336.78
warded contract by State Highway
mmission for grading, constructing
ctures and placing surfacing mat-
rial between Winnemucca and six
les west of Stonehouse. Complete
t of bids follows:

N. Tedford, Fallon.....\$118,336
dge Drbs., Fallon.....123,377
yada Rock & Sand Co. Reno 133,855
dget Cer. Co., Ogden.....143,151
blons & Reed.....198,103
gineer's estimate.....141,000

NEVADA CITY, Nevada Co., Cal.
Bids received April 6 by county su-
rvisors to construct county road
n Grass Valley to Colfax, approxi-
ately 10 miles in length, returned to
iders un-opened and new proceed-
gs will be started. Plans provided
graded roadway 20 ft. wide with
run base and a bituminous
adam surface 16-ft. wide, involv-
g:

- 3) 5.10 acres clear right-of-way and
439 stations 34,800 cu. yds. road-
way excavation;
 - 4) 8370 tons crusher run base;
 - 5) 523 cu. yds. crushed rock to be
salvaged;
 - 6) 3558 tons broken stone (bituminous
macadam surface);
 - 7) 289 tons emulsified asphalt;
 - 8) 825 barrels light fuel oil;
 - 9) 1574 lin. ft. 8-in. to 36-in. corr. u.
metal pipe;
 - 10) 1.13 miles property fence.
- Work under Acq. & Imp. Act 1925.
F. O'Connor, engineer for district.
vada City.

LASSEN AND SIERRA COUNTIES,
d.—Until April 29, 2 P. M., bids will
received by State Highway Com-
mission to treat with heavy fuel oil as
dust palliative, 42.2 miles between
miles west of Milford and Doyle
d between Long Valley Creek and
e Nevada State Line.

SAN DIEGO COUNTY, Cal.—Match
ros, Elsinore, at \$12,955 awarded con-
tract by State Highway Commis-
sion to grade and pave with Portland
ment concrete, 1.5 miles at Bos-
nia.

BERKELEY, Alameda Co., Cal.—
ntil April 21, 10 A. M., bids will be
eived by Florence E. Turner, city
erk, to construct pathway between
ucild and Hilldale Aves., involving:

- 1) 40 cu. yds. excavation;
- 2) 40 cu. yds. concrete;
- 3) 1800 lbs. reinforcing steel.

Certified check 10% payable to city
quired with bid. Plans obtainable
on Harry Goodridge, city engineer.

**PACIFIC GROVE, Monterey Co.,
Cal.**—City council declares intention
(3347) to improve Evans Ave. bet.
Eardley and Central Aves., Lowey
Ave. bet. Evans and Central Aves.,
First St., bet. Lighthouse Ave. and
Central Ave. and Second St., bet.
Lighthouse Ave. and Evans Ave. Pro-
ject involves:

- (1) 12,000 sq. ft. 2-in. asphalt surface
Eardley 3-in. rock base;
- (2) 29,000 sq. ft. 2-in. asphalt surface
on existing base;
- (3) 1,500 lin. ft. concrete curb;
- (4) 1,500 lin. ft. concrete gutter;
approach;
- (5) 600 sq. ft. concrete driveways
- (6) 300 lin. ft. 4-in. vitrified clay
sewer laterals;
- (7) 20 sewer taps.

1911 Act. Bond Act 1915. Hearing
April 16. Elgin C. Hurlbert, city
clerk.

**PACIFIC GROVE, Monterey Co.,
Cal.**—City council declares intention
(3344) to improve Ocean View Ave.,
bet. Eardley Ave. and Second St. Pro-
jects involves:

- (2) 21,000 sq. ft. 2-in. asphalt surface
(1) 23,000 sq. ft. 4-in. asphalt paving;
- (3) 1,000 lin. ft. concrete curb;
- (4) 800 lin. ft. concrete curb;
- (5) 800 lin. ft. concrete gutter
- (6) 2 catchbasins;
- (7) 80 ft. 10-in. corr. iron pipe;
- (8) 30 ft. 10-in. vitrified pipe;
- (9) 10 cu. yds. concrete;
- (10) 100 ft. 4-in. vitrified clay lat-
eral sewer;
- (11) 10 sewer taps.

1911 Act. Bond Act 1915. Hearing
April 16. Elgin C. Hurlbert, city
clerk.

WASHOE COUNTY, Nev.—Clark &
Henry Co., Chancery Building, San
Francisco, at \$215,278.55 awarded con-
tract by State Highway Commission
to widen and surface existing concrete
base with asphaltic concrete on 9.16
miles highway in Washoe County from
Washoe Summit to Huffakers on the
Reno-Carson City Rd., involving: 53-
400 cu. yds. roadway excav.; 1,550 cu.
yds. structure excav.; 26,300 cu. yds.
selected borrow; 132,192 sta. yds. over-
haul; 32,704 sq. yds. prepare sub-
grade for paving; 18,681 sq. yds. pre-
pare subgrade for widening; 3 demoli-
sion headwalls and (5) demolish syphons;
150 cu. yds. A and 43 cu. yds. B
complete; 284 ft. 16-in., 660 ft. 18-
in., 160 ft. 24-in. and 12 ft. 30-in. cor-
rugated pipe; 222 ft. 24-in. and 150 ft.
18-in. corr. syphon; 149 ft. 18-in. and
100 ft. 24-in. vit. pipe; 144 ft. remove
corr. pipe; 203 cu. yds. remove con-
crete; 566 ft. reset and remove corr.
pipe; 78 corr. pipe and 8 vit. pipe
cutter extensions; 270 cu. yds. con-
ment rubble masonry; 1,504 ft. timber
guard rail; 56 monuments, 2 posts for
Federal Aid markets; 9 miles finish
roadway, 674 ft. fencing; 10 remove
stumps, 6573 ft. reconstruct fence; 1
wood divers box, 4 lateral headgates;

5,200 eq. yds. demolish concrete pav-
ing; 5,000 lin. ft. enlarge expansion
joints; 13,000 tons asphalt concrete
base course; 10,500 tons asphalt con-
crete leveling course; 13,000 tons as-
phalt concrete wearing surface; 96,683
ft. side forms; 9.16 miles construct
shoulders.

Complete list of bids follows:
Clark & Henry Co.....\$215,278
Jones & King, Hayward.....229,396
R. J. Bianco, Manhattan Beach 236,744
Southern Calif. roads Co., Los
Angeles.....242,591
Nevada Rock & Sand Co. Reno 251,693
Chas. V. Heuser, Glendale.....260,044
Dodge Bros., Inc., Fallon.....279,831
Irving L. Ryder, San Jose.....267,318
Jack Casson, Hayward.....232,768
Engineer's estimate.....292,943

MONTEREY, Monterey Co., Calif.—
Clark & Henry Const. Co., Chancery
Bldg., San Francisco, submitted only
bid to city council (3085) to improve
Teresa Street bet. Monroe and Clay
Sts., and Garret St. from Clay to High
St., and from High St. to the U. S.
Military Reservation, involving 2½-
in. asph. conc. base pavement with
1½-in. asph. conc. surface, \$195 sq.
ft.; concrete sidewalks, \$19 sq. ft.;
conc. curbs and gutters, \$1.10 lin. ft.;
12-ft. sidewalk crossings, \$16.50 ea.;
22 4-in. house connection sewers, \$1 ft.
Taken under advisement.

CLOVERDALE, Sonoma Co., Cal.—
Highway Builders, Ltd., 640 Redhill
Ave., San Anselmo, at \$3465 awarded
contract by city council for rock and
oil screenings surfacings on various
streets.

SALINAS, Monterey Co., Cal.—Un-
til April 29, 7:30 P. M., bids will
be received by M. R. Keef, city clerk,
(95) to improve portions of So. Main
St. bet. Geil St. and Romie Lane, in-
volving grading; hy. cem. conc. curbs,
sidewalks; 6-in. hyd. cem. conc. pav-
ing. Est. cost, \$10,500. 1911 Act. Bond
Act 1915.

Certified check 10% payable to city
required with bid. Plans on file in
office of clerk. Howard Cozens, city
engineer.

KERN COUNTY, Cal.—Square Oil
Co., 916 Adobe st., Los Angeles, at
\$1.20 per bbl., submitted low bid to
the State Highway Department to
improve highway in Kern County, be-
tween Mojave and the San Bernardino
County line, about 31.2 miles in
length, to be treated with heavy fuel
oil as a dust palliative.

MENDOCINO COUNTY, Calif.—C.
Frederickson and Sons, Lower Lake,
at \$3,400 (\$2.10 bill) awarded contract
by State Highway Commission to
treat with light fuel oil as a dust pal-
liative, 33 miles between McDonald
and Flynn Creek. Note: This work
previously reported, in error, to Basalt
Rock Co., Napa, at \$5,400.

DO NOT RISK AN EXPERIMENT

SPECIFY -- USE

Timpie Hydrated Lime

STRONG—PURE—PLASTIC

Ten Years of Uniformly Satisfactory Experience in High

Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

Sold by Representative Dealers Everywhere

OAKLAND, Cal.—County Surveyor Geo. A. Posey making surveys for realignment and obtaining rights of way for improvement of the Durham road.

SAN FRANCISCO—M. M. O'Shaughnessy, city engineer, seeks \$550,000 appropriation in coming fiscal year budget to finance widening the first unit of Army Street; \$50,000 to construct the Castro street extension and \$50,000 for street work fronting city property.

EUREKA, Humboldt Co., Calif.—Henfey-Moore Co., 344 High St., Oakland, at \$23,273 awarded contract by county supervisors to furnish approximately 13.5 miles of county roads throughout the county, involving: 150,000 square feet surfacing; 52,000 gallons fuel oil.

Specifications provide for fuel oil, 1/4 gallon per sq. yd.; Emulsion, 1/2 gallon per sq. yd.; base rock, 1/2-in. to 1/2-in. 50 lb. per sq. yd.; Emulsion, 1/2 gal. per sq. yd.; second course, rock 1/2-in. to 1/2-in. 15 lb. per sq. yd.; Emulsion, 3/4 gal. per sq. yd. Third course sand, 10 lb. per sq. yd. Complete list of bids follows:

Henfey-Moore Co., Oakland.....	\$23,273.03
Mercer-Fraser Co., Eureka.....	25,696.23
W. C. Colley, Berkeley.....	27,190.62
Highway Pldrs. Ltd., San An- sano.....	30,025.37
Smith Bros. Co., Eureka.....	34,035.88
Redwood Const. Co., Ltd., Eureka.....	30,285.38

PLACER AND EL DORADO COUNTIES, Cal.—J. A. Casson, Hayward, at \$4238.57 submitted low bid April 13 to C. H. Whitmore, district engineer, State Highway Commission, Sacramento, to treat with light fuel oil as a dust palliative, 31.9 miles between Auburn and Placerville and between El Dorado and the Consumes River. Complete list of bids follows:

J. A. Casson, Hayward.....	\$4238
C. W. Wood, Stockton.....	7840
D. McDonald, Sacramento.....	5980
Basalt Rock Co., Napa.....	5557
E. F. Hillard, Sacramento.....	5698
Pacific Tank Lines, Inc., L. A.....	5883
C. Mankel, Sacramento.....	6147

Bids held under advisement.

BUTTE-PLUMAS COUNTIES, Cal.—D. McDonald, 1118 G St., Sacramento, at \$7616, submitted low bid April 13 to C. H. Whitmore, district engineer, State Highway Commission, Sacramento, to treat with light fuel oil as a dust palliative, on 47.8 miles between Miner's Ranch and Quincy. Following is a complete list of bids received:

D. McDonald, Sacramento.....	\$7616
C. W. Wood, Stockton.....	7840
Basalt Rock Co., Napa.....	8840
Pacific Tank Lines, Inc., L. A.....	9888

Bids held under advisement.

TUOLUMNE COUNTY, Cal.—B. C. Burnett, Turlock, at \$1299.93, submitted low bid April 13 to R. E. Pierce, district engineer, State Highway Commission, Sacramento, to construct hogtight property fence and install new property gates in Tuolumne county between 1 1/2 miles west of Keystone and Keystone. Complete bid listing follows:

B. C. Burnett, Turlock.....	\$1299
E. R. Jamieson, Sacramento.....	1302
E. T. Fisher & Son, Yacaville.....	1459
Anchor Post Fence Co., S. F.....	1866

Bids held under advisement.

YUBA-NEVADA COUNTIES, Cal.—C. W. Wood, County Engineer, Clute Blvd., Stockton, at \$7461.60, submitted low bid April 13 to C. H. Whitmore, district engineer, State Highway Commission, Sacramento, to treat with light fuel oil as a dust palliative, 12.4 miles in Yuba and Nevada Counties, be-

tween Seven Mile House and Rough and Ready and in Nevada, Yuba and Sierra Counties, 20.7 miles between Nevada City and Downieville. Following is a complete list of bids received:

C. W. Wood, Stockton.....	7,461
J. A. Casson, Hayward.....	7,879
D. McDonald, Sacramento.....	8,015
Basalt Rock Co., Napa.....	8,817
Pacific Tank Lines, Inc., L. A.....	10,336

Bids held under advisement.

LINDSAY, Tulare Co., Cal.—Until April 23, 8 P. M. bids will be received by E. V. Bogart, city clerk, to furnish road oil for use on city streets, bidders to state asphaltic content, also approximate gravity of oil to be furnished. Specifications obtainable from clerk.

EL DORADO COUNTY, Cal.—Until April 27, 2 P. M. bids will be received by C. H. Whitmore, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, to treat with light fuel oil as a dust palliative, 54.6 miles between Riverton and the Nevada State Line and between Alpine Junction and a point 5.2 mile south and between Meyers and Emerald Bay.

SONORA, Tuolumne Co., Cal.—Until April 23, bids will be received by county supervisor to improve the Phillips-Longway Road, Blinnet Creek Road and Wards Ferry-Algerian Road, involving:

- (1) 26,817 cu. yds. excavation;
- (2) 255 cu. yds. concrete (in bridges and cattle passes);
- (3) 1,402 lin. ft. 12-in. galvanized iron pipe;
- (4) 28 lin. ft. 16-in. do;
- (5) 28 lin. ft. 18-in. do;
- (6) 10 lin. ft. 36-in. do;
- (7) 60 lin. ft. 2-in. galvanized pipe railing.

Specifications obtainable from Robert D. Strauch, county surveyor, at Sonora.

SAN FRANCISCO—Bureau of Engineering, Board of Public Works, 3rd floor, City Hall, completes plans to improve Rankin St. bet. Oakdale and Palou Avenues, and Quesada to Reverse Avenues (where not already improved). Estimates cost \$1,725, involving:

- (1) 100 lin. ft. armored conc. curb;
- (2) 102 lin. ft. 6-in. V.C.P. side sewer;
- (3) 3,400 sq. ft. asph. conc. pavement, 2-in. asph. conc. surface, on 6-in. class F concrete base;
- (4) 1,700 sq. ft. class E concrete pave.

OAHU, Hawaii—See "Government Work and Supplies," this issue, Bureau of Yards and Docks, Navy Department, Washington, D. C., taking bids for development work in connection with the Naval Ammunition Depot at Oahu, Hawaii, involving the erection of 131 buildings, approximately 11 1/2 miles of railroads, 14 1/2 miles of paved road and electrical, telephone and water supply systems.

SALINAS, Monterey Co., Cal.—Unreceived by M. R. Keef, city clerk, till April 20, 7:30 P. M., bids will be (94) to improve portion of Abbot St., involving: 55,500 sq. ft. grading; 42,750 sq. ft. 6-in. hydraulic conc. paving; 5150 sq. ft. sidewalks; 1285 lin. ft. hydraulic cement concrete curbs. 1911 ft. Bond Act 1915.

Certified check 10% payable to city required with bid. Plans on file in office of clerk. Howard Cozens, city engineer.

Racer Pacific Frog & Switch Co., Los Angeles, has elected H. W. Renick president to succeed J. E. Strong, who is now vice-chairman of the board of directors. Mr. Renick was formerly vice-president of the company.

BUSINESS OPPORTUNITIES

SAN FRANCISCO—Names and addresses of the individuals or firms concerned in the following opportunities will be furnished on request. The Business Opportunity Department of Daily Pacific Builder, 545-547 Mission Street. Phone GARfield 5744; 21007—Peroxide Manganese Ore. Kob Japan. Exporters of peroxide manganes ore in the grades are anxious to expand their business on account of 21008—Auto Accessories. Cebu. Hardware company wishes to contact exporters of Chevrolet truck accessories and replacement parts.

21015—Hard Woods, Managua, Nicaragua. Firm is interested in exporting hardwoods and timber from Nicaragua, especially "Guayacan."

21012—Machinery, Caracas, Venezuela. Firm interested in establishing a Venezuela a good-sized business (fishing and packing of sardines) and is looking for fish wishes to contact manufacturers of machinery an equipment for this business.

21015—Tin Machinery, Monterey, Mexico. Firm wishing to establish a packing house for food products is desirous of contacting manufacturers of machinery for the tins, also exporters of tin.

21016—Representation, Hilo, Hawaii. Firm is desirous of representing local manufacturers in the Territory of Hawaii.

21017—Wallboards, San Francisco. Export firm wishes to contact manufacturers of wallboards similar to Rock wall gypsum, Arborite and Masonite 20991—Cordage, San Francisco. Firms in Paris, France are interested in communicating with importers of old cordage, used especially in the manufacturing of rope.

20992—Woodpulp, San Francisco. A Swedish concern inquires for list of firms in this territory interested in the import of various kinds of woodpulp.

20993—Metal Bedsteads, San Francisco. A manufacturer in Antwerp of metal bedsteads and bed springs seeks an agent for the Pacific Coast and the Hawaiian Islands.

20995—Pozzolana, San Francisco. A firm in Naples, Italy, wishes to contact importers who may be interested in a material known as "pozzolana," a natural cement producing hydraulic mortar of superior quality, successfully employed in submarine works and especially suitable for harbor construction.

20996—Corrugated Sheets, Westfalen, Germany. Manufacturer of accessories for corrugated sheets wishes to get in touch with local importers.

20998—Woodworking Machinery, Esslingen, Germany. Manufacturer of woodworking machinery is desirous of contacting interested importers.

20999—Pottery, Hamburg, Germany. Manufacturer of pottery is seeking local representation.

S. F. WINS CONTROL OF HARBOR DISTRICT

With but four dissenting votes, the Assembly passed a bill transferring control of San Francisco harbor from the state to a port district composed of San Francisco and San Mateo counties.

The bill would not transfer the properties of the harbor to the district, it provides that the state would retain title, and the members of the port commission, five in number, would be appointed by the governor. The district however, would finance the harbor under terms of the bill and underwrite bonds.

Contracts Awarded Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
1		Owner	8000
2	Coles	Owner	1000
3	Kellberg	Pearson	3500
4	Mirsky	Owner	12000
5	Savage	Owner	1500
6	Law	Owner	3500
7	Harder	Owner	3500
8	Yrigoyen	Owner	50000
9	Esulcios	Owner	1500
10	Whillehisen	Christensen	3750
11	Sala	Sala	4500
12	Leask	Owner	2000
13	Zara	Owner	4000
14	Power	Cuddie	4000
15	Ingerman	Ingerman	4000
16	Manseau	Owner	4000
17	Stoneson	Owner	21000
18	Janssen	Owner	1700
19	Cigar	Mullen	8000
20	Stoneson	Owner	7000
21	Stoneson	Owner	4500
22	S F	Owner	12000
23	Stoneson	Owner	8000
24	General	Owner	6000
25	Bendon	Owner	4500
26	S F	Owner	4000
27	Meyer	Owner	4000
28	Torre	Bordieu	4000
29	Anderson	Owner	8000
30	Capital	Owner	2000
31	Smith	Owner	6000
32	Heyman	Owner	6400
33	Wells Fargo	Barrett	15000
34	Coyle	Sullivan	8000
35	Hardiman	Owner	15000
36	Standard	Owner	4000
37	Muller	Owner	25000
38	McDonough	Owner	16000
39	Standard	Owner	7000
40	Standard	Owner	3500
41	Coleman	Coburn	2000
42	Greene	Thrall	3500

DWELLINGS
 (512) E 25th AVE. 100 S Rivera; two one-story and basement frame dwellings.
 Owner and Builder—W. P. Coles, 2395 29th Avenue.
 Plans by Owner. each \$4000

ALTERATIONS
 (514) 160 FRANKLIN ST.; alterations to dwelling.
 Owner—C. Kellberg, 1609 Franklin St. Architect—Not Given.
 Contractor—Pearson & Johnson, 2031 Bryant St. \$1000

DWELLING
 (515) W 30th AVE. 75 S Cabrillo; 1-story and basement frame dwelling.
 Owner—B. Mirsky & Son, Inc., 421 3rd Street.
 Architect—Not Given. \$3500

APARTMENTS
 (516) SW 31st AVE. and Irving St.; two-story and basement frame (4) apartments.
 Owner and Builder—W. A. Savage, 624 Urtano Drive.
 Architect—Not Given. \$12,000

ALTERATIONS
 (517) 637 MARKET ST.; alterations to store fronts.
 Owner—H. E. Law, 5 00 Monadnock Bldg.
 Plans by G. A. Schastey, 781 Market Street. \$1500

DWELLING
 (518) N ARLETA 132 E Rutland; 1-story and basement frame dwelling.
 Owner—J. H. Harder, 805 Vermont St. Plans by Owner. \$3500

DWELLING
 (519) N BAYVIEW 50 NE Newhall; one-story and basement frame dwelling.
 Owner—J. Yrigoyen, 1708 Oakdale Ave. Plans by Owner. \$3500

APARTMENTS
 (520) SW GOUGH and Broadway; 6-story class C apt. bldg. with class A construction 1st and 2nd stories (48 apts.)
 Owner—J. Esulcios, 135 Darlen Way. Architect—H. C. Baumann, 251 Kearny Street. \$50,000

ALTERATIONS
 (521) 2675 LOMBARD ST.; alterations to repair fire damage.
 Owner—Whillehisen.
 Architect—Not Given.
 Contractor—T. Christensen. \$1500

DWELLING
 (522) W 23rd AVE. 300 SLAWTON ST.; one-story and basement frame dwelling.
 Owner and Builder—G. Leask, 197 Parker Avenue.
 Architect—Not Given. \$4500

DWELLING
 (523) E 26th AVE. 150 S Kirkham; one-story and basement frame dwelling.
 Owner—F. R. Sala, 1798 Moraga St. Architect—G. Latornel.
 Contractor—G. A. Sala, 1260 9th Ave. \$3750

DWELLING
 (524) E GOETTGENEN 175 N Wayland; 1-story and basement frame dwelling.
 Owner—Mrs. C. Zara, 16 Holyoke St. Plans by James Zara. \$3000

DWELLING
 (525) SW FLOOD and DETROIT; 1-story and basement frame dwelling.
 Owner—M. A. Power, 207 Flood Ave. Plans by Mr. Cuddie.
 Contractor—T. R. Cuddie, 1350 Potrero Avenue. \$4000

DWELLING
 (526) W FUNSTON AVE. 161 South Santiago; one-story and basement frame dwelling.
 Owner and Builder—C. Ingerman, 2295 20th Ave.

Architect—Fabre and Hildebrand, 110 Sutter St. \$4000

DWELLING
 (527) E 25th AVE. 325 N Kirkham; one-story and basement frame dwelling.
 Owner and Builder—E. E. Manseau, 1439 29th Ave.
 Plans by Owner. \$4000

DWELLING
 (528) NE 26th AVE. and Vicente; one-story and basement frame dwelling.
 Owner and Builder—Stoneson Bros. & Thorinsson, 279 Yerba Buena Ave. Architect—Not Given. \$4000

DWELLINGS
 (529) W 27th AVE. 50 N Fulton St.; seven 1-story and basement frame dwellings.
 Owner and Builder—E. A. Janssen, 811 Hearst Bldg.
 Plans by Owner. each \$3000

ALTERATIONS
 (530) 315 MONTGOMERY ST.; alterations to store space.
 Owner—A. B. C. Cigar Co., 207 9th St. Plans by Mullen Mfg. Co.
 Contractor—Mullen Mfg. Co., 50-60 Rausch St. \$1500

DWELLINGS
 (531) S SENECA 205 E Delano; two one-story and basement frame dwellings.
 Owner and Builder—Stoneson Bros. & Thorinsson, 279 Yerba Buena Ave. Architect—Not Given. each \$4000

DWELLINGS
 (532) N VICENTE 90 W 25th Ave.; two 1-story and basement frame dwellings.
 Owner and Builder—Stoneson Bros. & Thorinsson, 279 Yerba Buena Ave. Architect—Not Given. each \$3500

DWELLING
 (533) SE COR. 22nd AVE. and Kirkham St.; one-story and basement frame dwelling.
 Owner and Builder—S. F. Home Eldg. Co., 2742 Mission St.
 Architect—C. F. Strothoff, 2274 15th Street. \$4500

DWELLINGS
 (534) W 25th AVE. 225 N Vicente; three 1-story and basement frame dwellings.
 Owner and Builder—Stoneson Bros. & Thorinsson, 279 Yerba Buena Ave. Architect—Not Given. each \$4000

SERVICE STATION
 (535) NW COR. FULTON ST. and Arguello Blvd.; one-story class C service station.
 Owner—General Petroleum Corp., 310 Sansome St.
 Plans by Owner. \$8000

DWELLING
 (536) NE UPLAND and Manor Drive; two-story and basement frame dwelling.
 Owner & Builder—G. O. Bendon, 2266 29th Avenue.
 Architect—Not Given. \$6000

DWELLING
 (537) SW COR. 21st AVE. and Kirkham St.; one-story and basement frame dwelling.
 Owner and Builder—S. F. Home Eldg. Co., 2742 Mission St.

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - - California

Architect—C. F. Strothoff, 2274 15th Street. \$4500

DWELLING
(538) W ROCKDALE 103 S Reposa; one-story and basement frame dwelling.
Owner and Builder—Meyer Bros., 727 Portola Drive.
Plans by Owner. \$4000

DWELLING
W ROMAIN 100 W Douglas; one-story and basement frame dwelling.
Owner—D. Torre, 157 Highland Ave.
Plans by E. Olafson, 1395 Union St.
Contractor—J. B. Bourdieu, 2625 20th Street. \$4000

DWELLINGS
(540) E 25th AVE, 100 N Santiago; 2 one-story and basement frame dwellings.
Owner and Builder—N. W. Anderson, 2427 24th Ave.
Architect—Not Given. each \$4000

ALTERATIONS
(541) SE 26th and BRYANT STS.; alterations to dwellings and store.
Owner—Capital Co., 625 Market St.
Architect—H. A. Minton, 625 Market Street. \$2000

DWELLINGS
(542) E 41st AVE, 50 N Irving St.; two 1-story and basement frame dwellings.
Owner and Builder—C. Smith, 560 36th Avenue.
Architect—Not Given. each \$3000

DWELLINGS
(543) E 17th AVE, 185 S Pacheco; two 1-story and basement frame dwellings.
Owner & Builder—Heyman Bros., 742 Market Street.
Architect—Not Given. each \$3200

ALTERATIONS
(544) NE GRANT AVE and Market St.; alterations to bank.
Owner—Wells Fargo Bank & Union Trust Co., Grant Ave. and Market Street.
Plans by M. G. West Co., 117 Front Street.
Contractor—Barrett & Hild, 918 Harrison St. \$15,000

DWELLINGS
(545) E 35th AVE, 125 S Ulloa; two one-story and basement frame dwellings.
Owner—T. P. Coyle, 55 New Montgomery Street.
Plans by T. J. Sullivan.
Contractor—T. J. Sullivan, 1967 Ocean Avenue. each \$4000

DWELLINGS
(546) W 17th AVE, 100 S Lawton; four 1-story and basement frame dwellings.
Owner and Builder—M. D. Hardiman, 324 38th Avenue.
Plans by Owner. each \$4000

DWELLING
(547) E 46th AVE, 190 N Balboa; one-story and basement frame dwelling.
Owner & Builder—Standard Bldg. Co., 218 Castaneda Ave.
Plans by Owner. \$4000

APARTMENTS
(548) NE COR. FILLMORE and Jefferson STS.; three-story and basement frame (12) apartments.
Owner—M. Muller, 222 23rd Avenue.
Architect—R. R. Irvine, 747 Call Bldg. \$35,000

DWELLINGS
(549) E 46th AVE, 115 N Fulton St.; four 1-story and basement frame dwellings.

Owner—M. McDonough, 148 Randall Street.
Architect—Not Given. each \$4000

DWELLINGS
(550) E 21st AVE, 150 N Quintara; two 1-story and basement frame dwellings.
Owner & Builder—Standard Bldg. Co., 218 Castaneda Ave.
Plans by Owner. each \$3500

DWELLING
(551) W 32nd AVE, 150 S Rivera; 1-story and basement frame dwelling.
Owner & Builder—Standard Bldg. Co., 218 Castaneda Ave.
Architect—Not Given. \$2500

REPAIRS
(552) 1232 OCTAVIA ST.; repair fire damage.
Owner—J. Coleman, 2048 Market St.
Architect—Not Given.
Contractor—L. W. Coburn, 2048 Market Street. \$2000

DWELLING
(553) N CIRCULAR AVE, 150 West Baden; one-story and basement frame dwelling.
Owner—R. Greene, 546 Market St.
Plans by Mr. Thrall.
Contractor—H. A. Thrall, 599 Noe St. \$3500

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Am't.
67	McCarthy	Meyer	2600
68	Ramon	Welch	3258
69	Borg	Columbia	2000
70	Berg	Erickson	10000

BUILDING
(67) LOT 4 BLK 2956-A Sub 7, Miraloma Park. All work for one-story frame building.
Owner—The McCarthy Co., 46 Kearny St., San Francisco.
Architect—Not Given.
Contractor—Meyer Bros., 727 Portola Drive, San Francisco.
Filed April 16, '31. Dated April 8, '31. Side and roof sheathing on.....\$300
Brown coated.....900
Completed.....900
Usual 35 days.....900
TOTAL COST, \$3600
Bond, none. Limit, 90 days. Forfeit, none. Plans and specification filed.

PLUMBING & GAS FITTING
(68) NW JUDAH ST. and Funston Ave. (St. Anne's Church); plumbing and gas fitting.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St.
Architect—W. D. Shea, 454 Montgomery Street.
Contractor—Dowd Welch.
Filed and Dated April 14, 1931.
Fifth of each month.....75%
Usual 35 days after.....25%
TOTAL COST, \$2938
Bond: \$395 to correct defects from faulty workmanship; \$3958 in favor of owner. Sureties, Massachusetts Bonding & Ins. Co. Limit, Jan. 2, 1932.

ERECT STRUCTURAL STEEL
(69) BLOCKS bounded by Van Ness Ave., Franklin, McAllister and Grove Streets; erection of structural steel for the War Memorial of San Francisco.
Owner—The Board of Trustees of the War Memorial of San Francisco.
Architect—Not Given.
Contractor—Columbia Steel Co., Russ Bldg.
Filed April 14, '31. Dated April 9, '31. Tenth of each month.....75%
Usual 35 days.....25%
\$22.50 per ton for erection and paint-

ing of steel and iron in Opera House War Memorial and \$18 per ton for same in Veterans' Bldg. of same Bond, \$63,000. Sureties, Central West Casualty Co. Limit, 170 days. Plans and Spec. filed. Assigned by Columbia Steel Co. to Steel Erectors Consolidated, Ltd.

BUILDING
(70) W 35th AVE, 125 S Balboa; 1 S 28 x W 120; all work on one-story and basement frame bldg.
Owner—H. and N. Berg.
Architect—C. W. Baker.
Contractor—H. Erickson, 972 Chene Street.
Filed April 15, '31. Dated April 14, '31.
Roof on.....\$25
Brown coated.....25
Completed.....25
Usual 35 days.....25
TOTAL COST, \$10,000.
Bond, \$10,000. Sureties, Fidelity at Deposit Co. of Maryland. Forfeit, \$2 Limit, Aug. 5, 1931. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

April 8, 1931—S CHANNEL ST bet 3rd and 4th Sts. Southern Pacific Co to Fay Improvement Co.....March 31, 1931
April 11, 1931—S CLEMENT 82-6 W 24th Ave W 25 x S 100 0L 205. J P McCormack to P I Jenks.....April 11, 1931
April 10, 1931—E FELL 137-6 E Buchanan E 27-6 x N 120 W A 231. L E Eddy to whom it may concern.....April 10, 1931
April 10, 1931—S DARIEN W 55 E Manor Drive 35-10x90. W P Larsen & S Larsen to whom it may concern.....April 10, 1931
April 10, 1931—NW WAWONA and 24th Ave N 75 x W 90. Castle Bldg Co to Henry Horn.....April 3, 1931
April 10, 1931—E STEVENSON 85 N Duhoce Ave W 50 x E 73-6 ME 21 and apply ad parcel 1 on E and adj on W the pdty and warehouse bldg of Bekins Van & Storage Co, 190 Otlis St. Bekins Van Lines, Inc to McDonald & Kahn, Inc.....April 10, 1931
April 9, 1931—S SUTTER ST. National Broadcasting Co to Clifton Stephenson Const Co, Ltd.....April 2, 1931
April 9, 1931—LOTS 31 and 32 BLK 7050 formerly lots 25 and 29 BLK D known as 25 Josiah Ave. C E and Marie W Morgan to Acme Const Co.....March 31, 1931
April 9, 1931—W 27th Ave 275 N Santiago N 25 x W 120 0L 1005. D S Kavanagh to whom it may concern.....April 4, 1931
April 9, 1931—NE CERVANTES S 55 deg 50 min 14 sec E 206-999 from point formed by inter NE Cervantes if produced NW and S Beach if produced W S 55 deg 50 min 14 sec E 25 N 24 deg 9 min 46 sec E 131-529 N 77 deg 23 min 7 sec W 26-894 S 34 deg 9 min 46 sec W. Louise Scalmanini to Tony Danico.....April 2, 1931
April 9, 1931—W 21st Ave 110 N Ortega. Nils B. Johnson to whom it may concern.....April 8, 1931
April 14, 1931—E HAMPSHIRE ST 100 N Mariposa St N 150 x E 100. A S Horne to whom it may concern.....April 13, 1931
April 13, 1931—LOT 26 BLK 561 Map Park Hd Assn. F and E Johnson and C H and A Westlund to whom it may concern.....April 11, 1931
April 11, 1931—E 19th Ave 220 and 245 S Lawton S 25 x E 120. A Halsen to whom it may concern.....April 10, 1931
April 13, 1931—N ISLAIS CREEK Channel W of 3rd St and alg E side S P Co trestle (rock bulkhead

ward). Ishik Creek Reclamation
 Dist to Healy-Tibbitts Const Co
 April 10, 1931
 ril 13, 1931—SW SENECA AVE
 1-6 SE lot 16 blk 6965A Sub No 1
 Geneva Terraces SE 34-8 SW 133-
 19 NW 23-408 NE 136-538. J Sar-
 bian to Stoneson Bros & Thorin-
 on April 1, 1931
 ril 13, 1931—SE 22nd & HOWARD
 100 th by angle to right of 89-
 5 distant 100 th by angle to right
 of 90-5 distant 100 to pt on E How-
 ard N 100 to beg. General Petroleum
 Corp to Sorensen & Hæg-
 mark April 4, 1931

439 Estate Owner 1500
 440 Nelmes Dawe 5770
 441 Towle Owner 2000
 442 Milston Roberts 3500
 448 Christensen Owner 2500
 419 Vlught Owner 1750

DWELLING
 (122) NO. 2809 OTIS DRIVE, ALA-
 MEDA. One-story 6-room frame
 and stucco dwelling.
 Owner—S. J. Dowling, 2800 Clay St.,
 Alameda.
 Architect—Not Given. \$4000

RESIDENCE
 (411) NO. 2418 BONAR ST., BERK-
 ELEY. One-story 5-room 1-
 family frame residence and garage
 Owner—Joseph and Mamie Moniz,
 2410 Bonar St., Berkeley.
 Architect—National Building & Plan-
 ning Co., 3310 Grove St., Oakland.
 \$3650

RESIDENCE
 (423) NO. 90 MAXWELTON ROAD,
 PIEDMONT. One and one-half-
 story 6-room and garage residence
 Owner—Gerald T. Kurtz.
 Architect—Not Given.
 Contractor—Petraum S. Borth, 91
 Nova Drive, Piedmont. \$6720

LIENS FILED

San Francisco County

Recorded Accepted
 ril 11, 1931—S SUTTER 137-6 E
 Divisadero E 26-7½ x S 100. C H
 Dayton vs Herbert Baird & F H
 Wiseman \$38.50
 ril 11, 1931—N ASH 137-6 E Bu-
 hanan E 27-6 x N 60 WA 224. C
 I Clayton vs Helene Dieling and
 Fred Wiseman \$112
 ril 11, 1931—SW SAN BRUNO
 Ave 134 NW Eurrows NW 41 x
 W 120 SE 41 NE to beg. Sunset
 Iron Works vs B Stone \$346
 ril 9, 1931—SW SAN BRUNO AVE
 34 NW Eurrows NW 41 x SW 120.
 Alifornia Concrete Co vs B Stone
 \$422.55
 ril 1931—E 25th AVE 150 25
 'araval N 25 x E 120. California
 'oncrete Co vs H S Kilgspoor.....\$113
 ril 13, 1931—S SUTTER 97 East
 Divisadero E 40-6 x S 100. Adam
 Cranston vs Jacob and Essie
 Friedman, Fred Wiseman \$31.50
 ril 13, 1931—N ASH 137-6 E Bu-
 hanan E 27-6 x N 60. Adam Cran-
 ston vs Helene Dieling, Fred Wis-
 eman \$66.50

REPAIRS
 (412) 3523 SIMONS ST., OAKLAND;
 repairs and 1-story garage.
 Owner—H. A. Pleitner, 1301 Fruitvale
 Ave., Oakland.
 Architect—Not Given.
 Contractor—W. E. Pickett, 3922 Red-
 ding St., Oakland. \$1200

DWELLING
 (424) S 109th AVE. 150 W Beverly
 Ave., OAKLAND; one-story five-
 room dwelling.
 Owner—L. J. Burton.
 Architect—Not Given.
 Contractor—Nylander Bros. 633 Mont-
 clair Ave., Oakland. \$3500

ALTERATIONS
 (413) 6385 DANA ST., OAKLAND;
 alterations.
 Owner and Builder—W. Wood, 6385
 Dana St., Oakland.
 Architect—Not Given. \$1000

DWELLING
 (425) S SIMMONS ST. 60 E Morcom
 Ave., OAKLAND; one-story five-
 room dwelling.
 Owner—E. M. Plumley.
 Architect—Not Given.
 Contractor—Fred T. Dooley, 3936 Vale
 Ave., Oakland. \$3000

DWELLING
 (414) N JOAQUIN MILLER ROAD,
 1900 W Lincoln Ave., OAKLAND;
 one-story 3-room dwelling.
 Owner—C. H. Prinz, Joaquin Miller
 Architect—Not Given.
 Road, Oakland.
 Contractor—C. H. Thrams, 28 Home
 Place, Oakland. \$2900

DWELLING
 (426) N HOLLYWOOD AVE., 500 W
 Park Blvd., OAKLAND; one-story
 5-room dwelling.
 Owner and Builder—C. W. Leekins,
 1650 Hopkins St., Oakland.
 Architect—Not Given. \$3000

FACTORY
 (415) N 60th ST. 152 E Idaho Street,
 OAKLAND; one-story brick fac-
 tory.
 Owner and Builder—Art Tool & Die
 Works, 1020 60th St., Oakland.
 Architect—Paul V. Tuttle, 2911 Santa
 Clara Ave., Alameda. \$3200

DWELLING
 (427) E LEO WAY, inter of Duncan
 Way, OAKLAND; 1½-story six-
 room dwelling.
 Owner and Builder—C. W. Leekins,
 1650 Hopkins St., Oakland.
 Architect—Not Given. \$3500

RELEASE OF LIENS

San Francisco County

Recorded Amount
 ril 6, 1931—2144 OR 17 and 2139 of
 W Wood N 22-2½ N 22-2½ N
 0-7 v SE 250-6½ to E Valencia
 '60-2 NE 250-5 to beg. L S Lis-
 ombie to A Curtaz (to releases)....
 ril 13, 1931—S 14th 100 W Landers
 V 34-0¼ SW 90 SE 125-4½ NE
 3-10½ N 135. C Anderson to H
 N F Klussmann

DWELLING
 (416) W ELSTON AVE. 150 NE 38th
 St., OAKLAND; one-story 5-room
 dwelling and 1-story garage.
 Owner and Builder—B. O. Taylor, 2720
 22nd Ave., Oakland.
 Architect—Not Given. \$3125

DWELLING
 (428) 1107 SUTTER ST. BERKELEY;
 one-story 6-room frame and stucco
 dwelling and garage.
 Owner—W. H. Livingston, 152 Euclid
 Ave., Berkeley.
 Plans by Grimes & Schoening, Bal-
 vick Bldg., San Mateo.
 Contractor—Livingston & Son, 152 Eu-
 clad Ave., Berkeley. \$5000

DWELLING
 (417) 672 CRAGMONT AVE., BERK-
 ELEY; two-story 6-room frame &
 stucco dwelling and garage.
 Owner—Dr. Thomas O. Robinson, 68
 Cragmont Ave., Berkeley.
 Architect—P. H. Slocombe, 62 York
 Drive, Oakland. \$7000

DWELLING
 (428) N TEXAS ST. 40 E Pleitner
 Ave., OAKLAND; one-story five-
 room dwelling.
 Owner and Builder—F. Taylor, 2 9 7 3
 Hopkins St., Oakland.
 Architect—Not Given. \$3000

BUILDING PERMITS

ALAMEDA COUNTY

Owner	Contractor	Amt.
Moniz	Owner	3550
Pleitner	Pickett	1300
Wood	Owner	1000
Prinz	Thrams	2900
Art	Owner	3200
Taylor	Owner	3125
Robinson	Owner	7000
Calvin	Owner	3500
Justice	Owner	5000
Dowling	Owner	4000
Kurtz	Borth	6720
Burton	Nylander	3500
Plumley	Dooley	3000
Leekins	Owner	3000
Leekins	Owner	3500
Livingston	Owner	5000
Taylor	Owner	3000
Eardwell	Owner	7000
Fleming	Owner	3950
Aluminum	Stolte	2800
Kameny	Shapiro	10900
Shapiro	Shapiro	10900
Robins	Kesti	7525
Ehmann	Cedarborg	2950
McAllister	Larmer	4100
Conlogue	Owner	3100
Schmidt	Owner	5000

DWELLING
 (418) N SCHOOL ST. 250 W Boston
 Ave., OAKLAND; two-story six-
 room dwelling.
 Owner and Builder—A. P. Christen-
 sen, 2836 School St., Oakland.
 Architect—Not Given. \$2500

DWELLING
 (429) 847 PORTAL AVE., OAKLAND;
 two-story 7-room dwelling.
 Owner and Builder—Chas. E. Bard-
 well, Jr., 794 Lerida Ave., Oak-
 land.
 Architect—Not Given. \$7000

OVEN
 (419) 5257 FOOTHILL BLVD., OAK-
 LAND; portable oven
 Owner and Builder—L. Vlught.
 Architect—Not Given. \$1750

DWELLING
 (430) W MONTEREY BLVD. 110 S
 Redwood Road, OAKLAND; one-
 story 6-room dwelling.
 Owner and Builder—Andrew Fleming,
 4210 Culvert St., Oakland.
 Architect—Not Given. \$3950

DWELLING
 (420) NO. 1734 PEARL ST., ALA-
 MEDA. One-story 5-room frame
 and stucco dwelling.
 Owner—Estella Calvin, 3016 Central
 Ave., Alameda.
 Architect—Not Given. \$3500

ADDITION
 (431) 3110 ADELINE ST., OAKLAND
 addition to foundry.
 Owner—Aluminum Cooking Utensil
 Co., 3110 Adeline St., Oakland.
 Architect—Not Given.
 Contractor—F. C. Stolte, 3449 Laguna
 Ave., Oakland. \$2800

DWELLING
 (421) NO. 2827 CLAY ST., ALAMEDA
 One-story 5-room frame and stucco
 dwelling.
 Owner—N. F. Justice, 973 Pearl St.,
 Alameda.
 Architect—Not Given. \$3500

DWELLING
 (432) 80 EL CAMINO REAL, BERK-
 ELEY; two-story 8-room frame
 and stucco residence and garage.
 Owner—Dr. Max Kameny.

Architect—Ray Keefer, 2 28 1 Lake-shore Blvd., Oakland.
 Contractor—S. M. Shapero, 1245 Berkeley Way, Berkeley. \$10,000

DWELLING
 (432) 91 EL CAMINO REAL, BERKELEY; two-story 8-room frame and stucco dwelling and garage.
 Owner—J. C. Stanier.
 Architect—Not Given.
 Contractor—S. M. Shapero, 1245 Berkeley Way, Berkeley. \$10,000

DWELLING
 (643) SAN LUIS ROAD, BERKELEY; two-story 7-room 1-family frame and stucco dwelling.
 Owner—Robert L. Robins, 1739 Euclid Ave., Berkeley.
 Architect—W. W. Dixon, 1544 Fifteenth Ave., Oakland.
 Contractor—Davis Kestli, 2217 Brown-ing Way, Berkeley. \$7525

DWELLING
 (437) E 78th AVE. 200 S Hillside St., OAKLAND; 1-story 5-room dwelling and 1-story garage.
 Owner and Builder—F. W. Conlogue, 2607 64th Ave., Oakland. \$3100
 Architect—Not Given.

DWELLING
 (425) E ATLAS AVE. 115 S Young Ave., OAKLAND; one-story six-room dwelling.
 Owner and Builder—A. K. Schmidt, 3036 Elston Ave., Oakland.
 Architect—Not Given. \$5000

REPAIRS
 (439) 758-760 41st ST., OAKLAND; fire repairs.
 Owner and Builder—Hattie Fagerberg Estate, 810 H St., Marysville.
 Architect—Not Given. \$1500

DWELLING
 (440) N McRAGA ROAD, 180 East Thorn Road, OAKLAND; 1-story 6-room dwelling.
 Owner—A. H. Nelmcs.
 Architect—Not Given.
 Contractor—Chas. Dawe, 981 Peralta Ave., Berkeley. \$5770

DWELLING
 (411) S 54th ST. 80 E San Pablo Ave., OAKLAND; one-story three-room dwelling.
 Owner and Builder—John F. Towle, 364 Dutton Ave., San Leandro.
 Architect—Not Given. \$2000

DWELLING
 (442) N RANSOME AVE. 350 West Santa Rita St., OAKLAND; one-story 6-room dwelling.
 Owner—D. Milton.
 Architect—Not Given.
 Contractor—R. S. Roberts, 3001 Fulton St., Berkeley. \$3500

ALTERATIONS
 (435) NO. 15 MANOR DRIVE, PIEDMONT. Alterations.
 Owner—Ehmann & Balbs, Premises.
 Architect—Not Given.
 Contractor—A. Cedarborg, 1455 Excelsior Ave., Piedmont. \$2950

ALTERATIONS
 (436) NO. 119 CAMBRIDGE WAY, PIEDMONT. Alterations.
 Owner—Dr. A. McAllister, 119 Cambridge Way, Piedmont.
 Architect—Not Given.
 Contractor—Ed. Larmer, 90 Fairview Ave., Piedmont. \$4100

BUILDING CONTRACTS
 ALAMEDA COUNTY

No. Owner	Contractor	Amt.
69 Kurtz	Booth	6720
70 Roman	General	3258

DWELLING
 (69) PTN OF A CERTAIN TRACT of land conveyed by Realty Syndicate Co. to Nellie A Maxwell by deed dated Nov. 23, 1916, and recorded in Book 2519 of Deeds page 260 in County Recorder's Office. Piedmont; general construction on 1-story frame dwelling.
 Owner—Gerald T. and Anne J. Kurtz, 81 Green Ave., Oakland.
 Plans by Mr. Booth.
 Contractor—B. S. Booth, 91 Nova Dr., Piedmont.
 Filed April 19, '31. Dated Mar. 28, '31
 When frame is up..... \$1750
 When rough plastered..... 1970
 When completed..... 1250
 July 1st..... 500
 36 days after completion..... 1250
 TOTAL COST, \$6720
 Forfeit, \$30 per day. Limit, 65 days.

ROOFING
 (70) NW EXCELSIOR AVENUE and Emerson St., Oakland; roofing on church building.
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
 Architect—Wm. E. Schlrmer, 700 21st St., Oakland.
 Contractor—General Roofing Co., 3985 Beach St., Oakland.
 Filed April 13, '31. Dated Mar. 20, '31.
 When slate is delivered..... \$1629.00
 When completed..... 814.50
 Usual 35 days..... 814.50
 TOTAL COST, \$3258
 Bond, \$3258. Sureties, Aetna Casualty & Surety Co. Limit, 25 days. Plans and Spec. filed.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded	Accepted
April 9, 1931—LOT 268, Unit No 2 Avenue Terrace, Oakland. C W Johnson to whom it may concern. April 9, 1931	April 9, 1931
April 11, 1931—PTN LOT 27, Claremont Terrace, Oakland. Charles L and Naomi D Ingler to whom it may concern. April 10, 1931	April 10, 1931
April 11, 1931—1295 SUNNYHILLS Road, Oakland. J H Thies to Geo H Kuhn. April 8, 1931	April 8, 1931
April 10, 1931—LOT 70, Ardmore, San Leandro. Carl J and Bessie A Fox to whom it may concern. April 10, 1931	April 10, 1931
April 9, 1931—LOT 19 BLK 4, Revised Map of Rock Ridge Park, Oakland. W P Baker to A C Sharp. April 7, 1931	April 7, 1931
April 9, 1931—LOT 9 BLK G, Estudillo Estates, San Leandro. R S and Bertha Amelia Pelletier to Noble F Justice. March 31, 1931	March 31, 1931
April 9, 1931—314 PANORAMIC Way Berkeley. John R Dawson to J A Pinkerton. April 9, 1931	April 9, 1931
April 8, 1931—W CALIFORNIA St 84 N of Derry St, Berkeley. A Jensen to whom it may concern. March 31, 1931	March 31, 1931
April 8, 1931—LOT 77, Lakeshore Manor, Oakland. James M Wheeler to whom it may concern. April 1, 1931	April 1, 1931
April 8, 1931—LOT 4 BLK L, Durant Manor, Oakland. Charles W and Ada J Griffith to whom it may concern. April 7, 1931	April 7, 1931
April 8, 1931—LOT 116 and N 2 it lot 17, Broadmoor Park, San Leandro. John H Piekrell to whom it may concern. April 8, 1931	April 8, 1931
April 8, 1931—E HARRISON ST 746 ft N of 13th St, Oakland. Ethel G Gross, Mabel T Pease, Bessie G Richardson, N S and G G Gage to whom it may concern. March 31, 1931	March 31, 1931
April 14, 1931—547 59th STREET, Oakland. Miss Beatrice De Nevi also known as Miss B De Nevi to A E Waldman. April 6, 1931	April 6, 1931
April 14, 1931—LOT 8 BLK K, Durant Manor, Oakland. Andrew and	

Martha Hexem to whom it may concern. April 11, 1931
 April 12, 1931—2701 CLAY STREE Alameda. N F Justice to whom it may concern. April 10, 1931
 April 13, 1931—1037 SANTA FE A Albany. Thorvald Pedersen to whom it may concern. April 8, 1931
 April 11, 1931—PTN LOTS 1 and Blk E, Stanford Tract, Oakland Arthur J Kelly to whom it may concern. April 10, 1931
 April 11, 1931—2155 WEBSTER S Alameda. San Francisco Bay Adrome, Ltd, to Lindgren & Switzer, Inc. April 9, 1931
 April 11, 1931—N 45 FT LOTS 17 at 18 Blk 17, Daley's Scenic Park Berkeley. Harry L and Ruth Kinman to Walter H Anderson. April 9, 1931
 April 8, 1931—S GREEN ST 100 Van Ness Ave W 26-4 X S R C Mary Damante to Frank Daman. April 6, 1931
 April 8, 1931—W ANDOVER 175 Crescent Ave 25X70, R and E Driscoll to whom it may concern. April 4, 1931

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
April 11, 1931—LOT 7 BLK 5, Berkeley Square, Berkeley. Tilden L and Mill Co, \$597.25; Sunset L Co, \$315.15; vs Frank H. April 9, 1931	
April 11, 1931—LOT 3 BLK 5, Berkeley Square, Berkeley. Tilden L Co, \$53.59; L A Winchester, \$527.50; vs Frank H and Beulah Felt. April 10, 1931	
April 10, 1931—PTN LOT 19, Map of the Land of Brooklyn Land Co Oakland. W F Garrett (as Garrett Mill & Lumber Co) vs M Sommers. \$111.4	
April 10, 1931—LOT 1, Dowling Homestead Tract, Oakland. G J Fraties vs A J Dowling; J Dowling; M Dowling and George J Prentice. April 9, 1931	
April 6, 1931—LOT 8 Portion Le 1 Alice Berk Property. Hutchin son Co vs E F Gross; B S Richardson; G Erickson also known as G F and C G H Hogan. \$3	
April 14, 1931—32 SAN DIEGO Berkeley. Markus Hardware Co vs S H & B Self. \$	
April 13, 1931—3916 FAIRWAY, Oakland. Atlas Heating & Ventilating Co, Ltd vs Ernest R Jervis. \$47	
April 12, 1931—LOT 1 BLK 11, S Cragmont, Berkeley. Tilden Lbr & Mill Co vs Dorothy G Hooper American Bldg & Finance Co. \$73	
April 13, 1931—N E 14th St 81-21 ft E 15th Ave, Oakland. A Casquei vs J R L Jones. \$190	

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded	Amount
April 11, 1931—N PTN LO 1 148 and S ptn Lot 149, Unit C, Oak Knoll, Oakland. Boorman, Lbr Co to Jesse D and Jewel R Colbert, Wm Arthur. \$267.	
April 10, 1931—N PTN LOT 148 and S Ptn Lot 149, Unit C, Oak Knoll, Oakland. Walter Maiden, \$48.75; Dudley D Morton, \$176; T A Ryan, \$128.45; Otto F Frederick, \$31. M and S Tile Co, \$467.50; Clayton R Reynolds, \$208; Taylor Paint Mfg Co, Ltd, \$22.40; Burr M Matthews, \$139; Taylor Paint Mfg Co, Ltd, \$150 to Jesse D and Jewel D Colbert. April 10, 1931	
April 10, 1931—N PTN LOT 148 and S Ptn Lot 149, Unit C, Oak Knoll Oakland, Melrose Bldg Materials Co, \$242.95; Freitas Plumbing & Heating Co, \$158 to J D Colbert and Wm Arthur. \$190	

April 10, 1931—N PYN LOT 148 and Pta Lot 149, Unit C, Oak Knoll, Oakland. Markus Hardware Co. to Jesse D. and Jewel R. Colbert and Wm Arthur\$98.50

BUILDING CONTRACTS

SAN MATEO COUNTY

BEELLING
T 19 BLK 11, Woodside Glens. All work for one-story frame rustic dwelling.
Owner—Isabelle Dencke.
Architect—Not Given.
Contractor—M. C. Rench, 736 Farrington Lane, Burlingame.
Filed April 14, '31. Dated April 14, '31.
Frame up 25%
Brown coated 25%
Completed 25%
Usual 35 days. TOTAL COST, \$2490
Limit, 75 working days. Plans and specifications filed.

ALTERATIONS, ETC.
MOUNT DIABLO AVE, bet. Griffith and Lewisworth Sts., San Mateo. All work for pews in place and alterations, etc., to church.
Owner—Congregational Church, San Mateo.
Architect—Kent & Haas, 525 Market St., San Francisco.
Contractor—The Home Mfg. Co., 552 Brannan St., San Francisco.
Filed April 13, '31. Dated April 3, '31. TOTAL COST, \$5600
Bond, \$5600. Surety, Sun Indemnity Co. of New York. Limit, July 15, 1931. Forfeit, plans and specifications, none.

REVISIONS
L CAMINO REAL AND WELLESLEY BLVD., Redwood City. All work for service station.
Owner—Union Oil Co., Mills Bldg., San Francisco.
Architect—Not Given.
Contractor—Wm. C. Keating, 4209 Mt. Blvd., Oakland.
Filed April 13, '31. Dated April 4, '31. Within 35 days. TOTAL COST, \$7682
Bond, limit, forfeit, none. Plans and specifications filed.

BUILDING CONTRACTS

SAN MATEO COUNTY

HOUSES
LOTS 3 and 5 BLK 8, White Oaks; all work, except pantry, on two frame and stucco houses.
Owner—Koff Realty Co., Highway, San Carlos.
Plans by C. E. Patten, Supt., 117 Colton, San Carlos.
Contractor—C. S. Baker, 611 9th Ave., San Mateo.
Filed April 9, '31. Dated Mar. 27, '31.
Roofed\$1687.50
Brown coated 1687.50
Completed 1687.50
Usual 35 days. TOTAL COST, \$6750.00
Forfeit, \$50. Limit, 90 working days. Plans and Spec. filed.

BUNGALOW

LOT 2 BLK 58, White Oaks; all work on one frame and stucco bungalow and garage.
Owner—Koff Realty Co., Highway, San Carlos.
Plans by C. E. Patten, Supt., 117 Colton, San Carlos.
Contractor—C. S. Baker, 611 9th Ave., San Mateo.
Filed April 8, '31. Dated Mar. 27, '31.
Roofed\$895.00
Brown coated 895.00
Completed 895.00
Usual 35 days. TOTAL COST, \$3350
Forfeit, \$50. Limit, 90 working days. Plans and Spec. filed.

BUNGALOW
LOT 3 BLK 15, Burlingame Grove; all work on 5-room frame and stucco bungalow.
Owner—Walter H. Milne, et al, Alameda.
Architect—Not Given.
Contractor—E. J. Hargrave, 1106 La Funa, Burlingame.
Filed April 6, '31. Dated March 7, '31.
Framed 25%
Brown coated 25%
Completed 25%
Usual 35 days. TOTAL COST, \$5825
Limit, 90 working days. Plans and Spec. filed.

BUILDING PERMITS

SAN MATEO

STONE building, one-story, \$2300:
Lot 3 Blk G No. 1011 B St., San Mateo; owner, Louis Sausset; contractor, Harry Kenie, 118 12th St., San Mateo.
STONE, \$10,853: Por. Lot 6 Blk 2, 3rd Ave., San Mateo; owner, Edgar L. Gould; contractor, Clinton Stephenson Constr. Co., 88 3rd Ave., San Mateo.
BANK and store, \$50,000: Lot 1 Blk 12, No. 273 B St., San Mateo; owner, Capital Co.; contractor, Young & Horstmeier, 461 Market St., San Mateo.
ALTERATIONS, \$1000: Lot 8 Blk 211, 2nd Ave., San Mateo; owner, Wisconsin Co., Premises; contractor, E. A. Wisnom, 140 Ellsworth St., San Mateo.
ALTERATIONS, \$4000: W 100 ft. Lot 18, No. 180 W-Poplar St., San Mateo; owner, Dr. W. P. Kerr, 180 W-Poplar St., San Mateo; contractor, Geo. McLeod, 933 Paloma St., Burlingame.
BLEACHERS, \$1000: Blk 70, No. 71 Poplar St., San Mateo; owner, San Mateo Union High School.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
April 10, 1931—E MISSION ST., 283-86 N Bismark St., San Mateo. Joseph F Dolan to S Warren & Son Jan. 27, 1931	
April 10, 1931—PART LOTS 4 AND 5 Blk 3, Blossom Heath Manor, San Mateo. Castle Bldg Co to Henry Horn April 8, 1931	
April 10, 1931—LOT 26 Blk 1, Jefferson Park. Castle Bldg Co to Henry Horn April 3, 1931	
April 10, 1931—LOTS 46 AND 47 Blk 2, San Bruno. Frank Chianelli to whom it may concern April 10, 1931	
April 10, 1931—BLK 259, San Mateo Homestead. Edmund J Hargrave et al to whom it may concern April 9, 1931	
April 10, 1931—LOT 2 BLK 24, Milbrae Highlands. Edmund J Hargrave et al to whom it may concern April 9, 1931	
April 10, 1931—LOTS 3 AND 4 BLK	

24, Milbrae Highlands. Nells Schultz to Schultz Constr Co. March 31, 1931
April 10, 1931—LOT 12 BLK 2, Winchester Tract, San Mateo. Milton Finlof to whom it may concern April 10, 1931
April 11, 1931—LOT 8 BLK 2, Stanford Park. Harry A Vandervort Jr to Paul Rohan Smith April 9, 1931
April 11, 1931—LOT 33 BLK 45, Easton. Arthur O'Leary to whom it may concern April 8, 1931
April 11, 1931—LOT 17 BLK 25, San Carlos. Claude Wart to whom it may concern April 11, 1931
April 13, 1931—PART LOT 12 BLK 9, Menlo Oaks. T J Gilligan to whom it may concern April 2, 1931
April 13, 1931—LOT 39 AND PART Lot 38 Blk 8, Schwerin Sub. Nicolaus H Neklasson to whom it may concern April 1, 1931
April 13, 1931—LOT 39 AND PART Lot 33 Blk 8, Schwerin Sub, San Mateo. Nicolaus H Neklasson to whom it may concern April 1, 1931
April 13, 1931—PART LOT 19 Blk 9, Menlo Oaks. F J Gilligan to whom it may concern April 4, 1931
April 14, 1931—LOT 66, San Mateo Park. Annie S Hansen to A M Schueta April 1, 1931
April 14, 1931—LOT 10 BLK 16, Lomita Park. A Timzi to A Timzi April 11, 1931
April 9, 1931—LOT 23 BLK 24, Wisconsin Sub. D Haule to whom it may concern April 6, 1931
April 6, 1931—PART LOT 17 BLK 19 East San Mateo. A Johnson to whom it may concern April 4, 1931
April 8, 1931—LOTS 5 and 6 BLK 3 North Fair Oaks. Edw Joslyn et al to whom it may concern April 4, 1931
April 6, 1931—LOT 16 BLK A Hayward Park. Harry H Randles to whom it may concern Apr 6, 1931
April 6, 1931—LOT 20 BLK 6 Crocker Est Tract. Raymond Dhuyvetter to Bassard & Johnson. April 2, 1931
Apr 7, 1931—LOT 25 BLK 22, Crocker Est Tract. Harry Shapiro to Self April 6, 1931
April 9, 1931—E COR PRIMROSE and Bellevue Avenue, Burlingame. City of Burlingame to Chas Pedersen April 3, 1931
April 8, 1931—LOT 35 and part lot 34 Blk D, Schwerin Addn. Lars O Tarkelsen et al to Alexander Martin April 3, 1931
April 8, 1931—LOT 395 Mission St. Exten Homestead Addn (2 dwellings). Victor Bjorkman to whom it may concern April 7, 1931
April 8, 1931—LOT 5 BLK 55 Easton. Orja Johnson to Albert S Johnson April 4, 1931
April 8, 1931—LOT 4 BLK A Pays-Redwood Gardens. Wm W Stremnie to Sam B Goss April 6, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
April 6, 1931—NE COR OAK Grove Ave and County R, Menlo. Kavanaugh Const Co, alias, vs Dyer	

Member Insurance Brokers' Exchange

FRED H. BOGGS

INSURANCE

490 GEARY STREET

Phone FRanklin 9400

San Francisco

Const Co. \$591
 April 7, 1931—LOT 59 Studio Tract,
 San Mateo. Daniel J McDonald vs
 Joseph C Borda et al. \$1277.99
 April 11, 1931—LOTS 1 AND 2 BLK
 2, Broadhaven. Frank A Grunert,
 \$50; Progress Lumber Co, \$439.72
 vs Clarence W Jaycox et al.

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded Amount
 Apr 8, 1931—LCCATION OMITTED.
 S Rossi to Jules G Minducile et al
 in full

BUILDING CONTRACTS

SANTA CLARA COUNTY

SCHOOL

W WASHINGTON S POPLAR ST.,
 Santa Clara. All work for paint-
 ing for one-story concrete school
 building.

Owner—Santa Clara School District.
 Architect—Ralph Wyckoff, Santa Jose
 National Bank Bldg., San Jose.
 Contractor—Peter Rohde, 316 Main St.,
 Santa Clara.

Filed April 1, '31. Dated March 25, '31
 As work progresses 75%
 Usual 35 days 25%

TOTAL COST, \$1311
 Bond, none. Limit, on or before
 Sept. 3, 1931. Forfeit, none. Plans
 and specifications filed.

PLUMBING ON ABOVE.

Contractor—A. E. Roll, 1157 Frank-
 lin St., Santa Clara.
 Filed April 1, '31. Dated March 25, '31
 Payments same as above.

TOTAL COST, \$4176.96
 Bond, none. Limit, on or before Sept.
 3, 1931. Forfeit, none. Plans and
 specifications filed.

GENERAL CONTRACT ON ABOVE.
 Contractor—Paul N. Andersen, Willow
 Glen.

Filed April 1, '31. Dated March 25, '31
 Payments same as above.

TOTAL COST, \$26,358
 Bond, none. Limit, on or before Sept.
 3, 1931. Forfeit, none. Plans and
 specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted
 March 30, 1931—LOT 7 BLK 4, Wil-
 lowhurst. Adah Ross Butts to
 whom it may concern. March 28, 1931
 March 30, 1931—LOT 7 BLK 6,
 Claremont Sub., San Jose. Wm B
 George Jr et al to whom it may
 concern. March 30, 1931
 March 31, 1931—LOT 6, Thompson
 Subd., San Jose. Marie Thompson
 to whom it may concern. March 30, 1931
 March 31, 1931—LOT 35 BLK 3,
 Lincoln Gates. O F and Mary
 Hoover to whom it may concern
 March 28, 1931
 March 31, 1931—NO. 142 EMBARCA-
 dero Oaks being Lot 20 Blk 14,
 Palo Alto. Enoch M Brickley to
 whom it may concern. March 30, 1931
 April 1, 1931—S 48 FT. LOT 13 BLK
 8, Main and Denike Subd., Los
 Gatos. E W Hill et al to whom it
 may concern. March 31, 1931
 April 1, 1931—PART LOT 8 BLK 3,
 South Lincoln. Arthur Vaughan
 et al to whom it may concern.
 April 1, 1931
 April 2, 1931—LOT 5 BLK 6 N Glen
 Residence Park, San Jose. Rollie
 Williams et al to whom it may
 concern. March 27, 1931
 April 2, 1931—LOT 12, Eastmore-
 land Park, San Jose. Evie H Lar-

son to whom it may concern. March 30, 1931
 April 3, 1931—LOT 20 BLK 2, Los
 Altos No. 1. Giulio Sarto et al to
 whom it may concern. April 2, 1931
 April 3, 1931—LOT 15 BLK 13, Sun-
 nyside Addition No. 2, Palo Alto.
 Erza Bishop to whom it may con-
 cern. March 27, 1931
 April 4, 1931—LOT 17, Maurer Subd.
 Dominico A Orlando et al to whom
 it may concern. April 2, 1931
 April 4, 1931—LOT 8 and NE 1/2 Lot
 7 Blk 40, College Terrace, Palo
 Alto. Willis J Sheldon to whom
 it may concern. April 1, 1931
 April 4, 1931—LOT 22 BLK 122, Cres-
 cent No. 2, Palo Alto. W H Gib-
 son to whom it may concern. April 2, 1931
 April 4, 1931—2.613 ACRES, Part
 Lot 4, Francis Smith Subd. John
 Frias to whom it may concern. April 4, 1931

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
 March 31, 1931 — SE MELVILLE
 Ave and NE Webster SE 138XNE
 112.50 ptn Lot 1 Blk 98, Palo Alto.
 A R Ford vs E H Black. \$124.45
 March 31, 1931—LOT 12 BLK 6, Sea-
 Addition No. 4, Palo Alto. J A
 Broadwood vs Walter F and Hazel
 Lyman Nickel. \$1644
 April 2, 1931—LOT 17 BLK 6, North
 Glen Residence Tract. Charles W
 Lannin vs F E Leedom et al. \$156.95

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
 April 4, 1931—SE MELVILLE AND
 NE Webster SE 138XNE 112.50 pt
 Lot 1 Blk 98, Palo Alto. A R Ford
 to E H Black. \$24.45

BUILDING PERMITS

SAN JOSE

ALTER frame residence, \$1000; No.
 889 Elm St., San Jose; owner, L.
 P. Muntz, Premises.
 ALTER frame residence, \$1350; No.
 70 S-Sixteenth St., San Jose; owner,
 S. H. Adamson, 196 S-17th St.,
 San Jose; contractor, H. G. Yick,
 331 West Court, San Jose.
 RESIDENCE, 6-room frame, \$4500;
 Taylor St. near 21st St., San Jose
 owner, S. Demattei, 1401 E-Taylor
 St., San Jose; contractor, V.
 Sunzger, 184 N-31st St., San Jose.
 RESIDENCE, duplex, frame, \$8750;
 Washington St. near 14th St., San
 Jose; owner, Mrs. G. Esterberg,
 569 Minor Ave., San Jose; contrac-
 tor, R. T. Souther, 1497 E-San
 Fernando St., San Jose.

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$3200; No. 111
 Washington Ave., Palo Alto; own-
 er, Wayne, N. Coe; contractor, G.
 B. Moore, 521 Stanford St., Palo
 Alto.
 RESIDENCE, stucco, \$5200; No. 1810
 Fulton St., Palo Alto; owner, O.
 R. Ogren, 2376 Bryant St., Palo
 Alto.
 RESIDENCE, stucco, \$7000; No. 240
 Castilleja Ave., Palo Alto; owner,
 James G. McGrath, 567 Forest St.,
 Palo Alto; contractor, Henry Mar-
 aranda, 329 Pope St., Palo Alto.
 RESIDENCE, stucco, \$4000; No. 1555
 College Ave., Palo Alto; owner, J.

F. Harvey and Geo. Lanthier, con-
 tractor, Geo. Lanthier, 334 Van
 St., Palo Alto.
 RESIDENCE, \$6000; No. 721 West
 Ave., Palo Alto; owner, R. G.
 Thibey; contractor, F. R. Hilt,
 160 Cowper St., Palo Alto.

BUILDING PERMITS

REDWOOD CITY

DWELLING, 1-room and bath, fr-
 \$4600; No. 121 Hopkins Ave.,
 wood City; owner, Mrs. C.
 Benedict; contractor, Russ
 Duncan.
 DWELLING, 5-rooms, bath an-
 garage, frame, \$3000; No. 1136 1/2
 St., Redwood City; owner, u-
 contractor, Moncrieff Bros., 573
 Cleveland St., Redwood City.
 DWELLING, 5-rooms, bath and
 garage, \$7500; No. 953 Ar-
 nter Road, Redwood City; over
 R. B. Wilson; contractor, J F
 Bourquin, 128 Iris St., Redwood
 City.
 DWELLING, frame, 4-room and th-
 \$1000; No. 953 Johnson St., re-
 wood City; owner and contrac-
 John Parfitt.
 DWELLING, frame, 5-room, bath-
 garage, \$3500; 445 Iris St.; over
 and builder, G. Jervis.
 DWELLING, 5-room, bath and
 garage, \$5000; No. 428 Grand L.
 Redwood City; owner, E. Str-d-
 quist, 229 Iris St., Redwood ty
 DWELLING, frame, five-rooms, th-
 and garage, \$2000; No. 710 Ech-
 St., Redwood City; owner, H J
 Finkerton.
 DWELLING, frame, 6-room, bath
 garage, \$4500; No. 23 Hillway
 St., Redwood City; owner, Geor-
 ge Hill, 114 Highland Ave., Bur-
 game.

BUILDING PERMITS

BURLINGAME

ALTERATION, \$1000; Lot 15 Blk
 Howard; owner S L Britten, pre-
 sises; contractor, J L McDonald,
 1553 Howard.
 EUNGALOW, \$3300; Lot 15 Blk 6
 Castillo; owner and builder, Meo
 & Briggs, 1425 Broadway.
 ALTERATIONS, \$1200; 123 Pepp-
 owner, David Steiner, 123 Pepp-
 contractor, Jos. Johnson.
 EUNGALOW, \$5500; Lot 19 Blk 2
 Channing; owner, Jos. Chamber-
 contractor, Harry Kime, 118 L
 Street.

BUILDING CONTRACTS

MONTEREY COUNTY

APARTMENTS
 NE COR. DEL MONTE and Park Av
 Monterey; all work on 2-story co-
 crete building with 2 aptamer
 above.
 Owner—N. Minkel, 1104 Del Mont
 Monterey.
 Architect—A. W. Story and W. V.
 Hastings, Watsonville and Mon-
 erey.
 Contractor—Fred McCrary, 506 Fr-
 mont, Monterey.
 Filed April 7, '31. Dated April 6, '31
 Progress payments..... \$75
 Usual 35 days..... 25
 TOTAL COST, \$14,200
 Bond, \$14,200. Sureties, Columb
 Casualty Co. Limit, 60 working day
 Plans and Spec. filed.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
 April 8, 1931—LOT 13 BLK 23 MAP

of Monte Regio No. 1. Frank J and Edna M Musso to W C Mann
 April 2, 1931—LOT 15 of Sunset Addition. Goldwyn G Grant to whom may concern. April 8, 1931
 April 6, 1931—N 40 ft of LOT 19 S 9 ft of Lot 18 Geo S De Lorimer subdiv. Salinas. Geo S De Lorimer to Wallace Richmond. April 8, 1931
 April 10, 1931—LOT 2 BLK 9, Live Oaks Park. Monterey Co. May Thompson to Goodale Bros. April 8, 1931
 April 9, 1931—LOT 16 BLK 28, map of Addn No 4, Carmel by the Sea. Vin P Torras to whom it may concern. April 8, 1931
 April 3, 1931—LOT 11 BLK 4 Block book of the city of Monterey. Clara R McMenamin to C H Lawrence. March 31, 1931
 April 3, 1931—LOT 15 BLK 32 Monterey Peninsula Country Club Sub to J Gladys M Chesbrough to Richard Chivers. March 18, 1931

RELEASE OF LIENS

MONTREY COUNTY

Recorded Accepted
 April 2, 1931—LOT 17 BLK Map of De Monte Heights, Lakeview Tract. J W Shaney, J N Nelson, \$28.50; Patrick the Plumber, George D and Victor H Patrick, \$137.75 to Donald Wallace....

BUILDING PERMITS

STOCKTON

VELLING, stucco, a-story and garage, \$5500; No. 1621 W-Harding Way, Stockton; owner, L. A. Randolph, 106 Knowles Way, Stockton
 SPINEXE, brick veneer, two-story and garage, \$7800; No. 2625 Westminster Ave., Stockton; owner, Dr. Carl Rausch, 1st National Bk. Bldg., Stockton; contractor, Wm. Peenstra; 2261 Kensington St., Stockton.
 VELLING, one-story, \$4400; No. 432 Willow St., Stockton; owner, J. M. Heltterbrand, 2644 E-Main St., Stockton.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 March 31, 1931—EAST HALF of Lot 1; Blk 87, Amendment No 1, City of Pittsburg. Horace P and Nina Billici to G S Lucido. Mar 27, 1931
 April 21, 1931—TRACT of land in Ignace Addn, Walnut Creek. J G Graziano to Sal Guardino. March 30, 1931
 April 2, 1931—LOTS 27 and 29 Blk 4, Almond Court Addn to Walnut Creek. Wm Hughes to Anker Wedstedt. April 2, 1931
 April 4, 1931—LOT 7 BLK 112, West Side Addn No 2, Pittsburg. G E Sino to whom it may concern. April 3, 1931
 April 4, 1931—LOT 8 BLK 112, West Side Addn No 2, Pittsburg. G E Sino to whom it may concern. April 3, 1931
 April 4, 1931—PTN LOT 2 BLK 6, Parkside Addn. Ellen H Lawson to H A Lassen. April 4, 1931
 April 7, 1931—LOT 12 and N half of lot 15 Blk 66, Amended City of Richmond. George Zanes to whom it may concern. April 4, 1931
 April 8, 1931—LOTS 36 and 37 Blk 14, Fay Andrade Tract. J M Swift to A and Harry A Manuel, doing business as Manuel Builders. April 6, 1931
 April 9, 1931—LOT 2 BLK 105, West Side Addition, City of Pittsburg.

Francisco and Maria Sino to Francisco Sino. April 3, 1931
 April 10, 1931—LOT 16 BLK 9, Martinez Land Co Tract No. 2. J B Corrie to whom it may concern. April 6, 1931
 April 10, 1931—PORTION RANCHO San Miguel. California Water Service Co to Chicago Bridge & Iron Works. April 8, 1931
 April 11, 1931—LOT 23 BLK 4, Amended Map of Alhambra Heights Addition to Martinez. Sidney Lapham to whom it may concern. April 10, 1931
 April 13, 1931—LOT 13 N 1/2 Lot 14 Blk 6, Richmond City Center. A L Paulsen to A Waring and R G Evans. April 10, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 April 9, 1931—PTN LOTS 5, 6, 7 & 8 Blk 337, Addition Survey, Martinez. Acme Partition Co vs E W Merrithew and Wallace Snelgrove. \$716.60
 April 10, 1931—LOT 26 AND 1/2 Lot 35 Blk 35, North Berkeley Terrace. McDonald's Electric Shop vs Richard Weber, Ellen Louise Weber and W E Bockover. \$69.40
 April 6, 1931—LOTS 23 and 35 Blk A, New Richmond Addn. V G Blake, doing business as V. G. Blake Elec Co vs Valine and Lawrence, co-partners; E Valine, John and Mary Ambrosia, contractors and owners. \$245
 March 31, 1931—LOT 31 and S half of lot 32 Blk 35, North Berkeley Terrace. Carlstrom Bros and Person vs Henry F Block. \$122.50
 March 31, 1931—NORTH 50 ft LOT 39 and all lot 40 blk 7 Amended City of Richmond. J F Snyder and J E Haxton, co-partners doing business as Snyder & Haxton vs C Valine, Frank Lawrence, Louis Diaz, et al. \$147.15
 March 31, 1931—EASTERLY HALF Lot 1 Blk 33, Boulevard Gardens Tract No 1. Martin M Griffin and John Carrick, doing business as El Carrito Wrecking Co vs E E Rose. \$55.70

RELEASE OF LIENS

CONTRA COSTA COUNTY

Recorded Amount
 April 6, 1931—LOTS 24 and 25 Blk 1, Putnam Realty Co's Map of Almond Court Addn. N M Winters to George A Putnam.
 April 3, 1931—LOTS 17, 18, 19, 20, 21 Blk 19, Nicholl Macdonald Avenue Civic Center. G B and H P Lauritzen, N P Bush, co-partners, doing business as Richmond Navigation Co to C A and F A Reiser, et al.

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
 April 7, 1931—COUNTY ROAD near Ross. Carl W Clark to whom it may concern. April 7, 1931
 April 8, 1931—MILL VALLEY. Helene E Courtright to whom it may concern. April 8, 1931

LIENS FILED

MARIN COUNTY

Recorded Amount
 April 11, 1931—SAN ANSELMO. Hawthorn Hills. Marshall Shingle Co vs C A Service. \$127.50

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 April 10, 1931—LOT 1 BLK A, Marion Addition to Santa Rosa. Allan Smith to whom it may concern. April 10, 1931
 April 12, 1931—NO. 1216 SO SLIDE Fair Oaks Ave East Leland St., Santa Rosa. Russell L Cowell to W F Bohm. April 13, 1931
 April 14, 1931—LOT 11 BLK 2, Riverside Terrace No. 1, Ferris Ferrando and Theda Ferraro to S Ferrando. April 11, 1931

BUILDING PERMITS

SACRAMENTO

RESIDENCE, 5-room and garage, \$4500; No. 3616 Seventh Ave., Sacramento; owner, Nick Rohrer.
 RESIDENCE, 7-room & garage, \$6500; No. 3650 W-Lincoln Ave., Sacramento; owner, Cyrus McLaughlin, 181 45th St., Sacramento; contractor, S. W. Ottinger, 693 35th St., Sacramento.
 RESIDENCE, 7-room, \$6900; No. 2819 Fourth Ave., Sacramento; owner, Adolph McAdams, 2925 D St., Sacramento; contractor, C. C. Ruby, 4063 T St., Sacramento.
 RESIDENCE, 5-room and garage, \$2400; 3509 8th Ave.; owner, Mary G. Lattin, Maydestone Apts.
 RESIDENCE, 5-room and garage, \$3500; 2748 Marshall Way; owner, Trygve & Torgersen, 2724 4th St.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
 April 8, 1931—PARCEL 1 LOT 14, McKinley Blvd. Tract and Parcel 2 part. Trct land adj Parcel No. 1, Sacramento. Roger Wm and Georgia May Browne to whom it may concern. April 6, 1931
 April 14, 1931—LOT 86, Mont Clair. John Simmons to whom it may concern. April 10, 1931

LIENS FILED

SACRAMENTO COUNTY

Recorded Amount
 April 11, '31—LOT 4 BLK 30, Woodlake Addn No 1, Mapes Lumber Co vs Eric Austin and Paul R Opdyke. \$281.58
 April 7, 1931—LOTS 1 and 2 Kathleen Tract. Mundet Cork Corp vs Fred Kaiser, Kaiser Bros and I J Blake. \$366.33

BUILDING PERMITS

FRESNO

DWELLING and garage, \$3500; No 1305 Feger Ave., Fresno; owner, W. H. Richmond, 1379 Adeline St., Fresno.
 DWELLING and garage, \$4500; 1232 Vogedes Ave.; owner, A. Brooks, McKinley; contractor, S. C. Ramage, 2390 McKinley.
 DWELLING and garage, \$3000; 1553 Bremer Ave.; owner, O. G. Panquet; contractor, A. G. Lutzpass.
 DWELLING and garage, \$4000; 3666 Platt Ave.; owner, C. D. Sorenson 3420 Platt; contractor, R. E. Harris.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 April 8, 1931—SECS. 29, 33, 21-17, Fresno. Southern Fuel Co to

Southern Calif. Constr. Co., Ltd.
 March 31, 1931
 April 8, 1931—LOTS 6, 7 AND 8 BLK
 42, Sierra Vista Addition No. 2,
 Fresno. C A Tarr to whom it may
 concern..... April 7, 1931
 April 7, 1931—LOT 7 E 1/2 lot 6 Bk
 17 N Park Terrace. Ella E Miller
 to Walter T Harris..... April 3, 1931
 April 7, 1931—LOTS 24, 25 BLK 2,
 Poone Terrace. Taylor - Wheeler,
 Inc to whom it may concern.....
 April 6, 1931
 April 11, 1931—S 1/4 LOTS 1 AND 2,
 Camy Place, Fresno. W B Robin-
 son to whom it may concern.....
 April 10, 1931
 April 11, 1931—LOT 29, Terrace Gar-
 dens, Fresno. Taylor-Wheeler, Inc
 to whom it may concern.....
 April 10, 1931
 April 9, 1931—1157 ACRE RANCH
 near Dos Palos. J W Cain to Clyde
 D Jones..... March 27, 1931

LIENS FILED

SACRAMENTO COUNTY

Recorded	Amount
April 10, 1931—LOTS 1 & 2, Kath- leen Tract, Sacramento. Dolan Bldg Material Co vs I J Blake and Fred Kaiser	\$290.80
April 10, 1931—LOTS 3 TO 11, Inc, Alhambra Trct, Sacramento. Chas J Braun Mattress Co vs Edward and Franches C Wahl and Edward Zue Geary	\$500

BANKS, STORES & OFFICES

(Continued from Page 16)

Contract Awarded.
REMODELING Cost, \$—
VALLEJO, Solano Co., Cal.
 Remodel three-story concrete and
 brick newspaper office (old Col-
 onial type).
 Owner—Vallejo Chronicle and Times-
 Herald, 516 Marin St., Vallejo.
 Architect—F. H. Slocombe, 62 York
 Drive, Oakland.
 Contractor—S. J. Weeks, 331 El Do-
 rado St., Vallejo.

THEATRES

Plans Being Prepared.
THEATRE Cost, \$—
LOS ANGELES, Cal. Crenshaw
 Blvd. and Vernon Avenue,
 Class A theatre.
 Owner—Walter H. Leimert Co.
 Architect—Morgan, Walls & Clements
 Van Nuys Bldg., Los Angeles.
 Contractor—Lindgren & Swinerton,
 Inc., 523 W-Sixth St., Los Angeles

Contract Awarded.
ALTERATION Cost, \$70,000
SAN FRANCISCO, 1077 Market St.
 Remodel class A theatre (interior and
 exterior alterations).
 Owner—United Artists Corp., 931 So.
 Broadway, Los Angeles.
 Architect—Walker and Eisen, Western
 Pacific Bldg., Los Angeles.
 Contractor—Henry I. Beller Const. Co.,
 6513 Hollywood Blvd., Los Ange-
 les.
 Construction will start immediately.

Plans Being Prepared.
THEATRE & STORE Cost, \$—
LONG BEACH, Los Angeles Co., Cal.
 One-story theatre and store building
 (100x150-ft.; to seat 1144).
 Owner—United Artists Theatres of
 California.
 Architect—Walker & Eisen and C. A.
 Balch, Western Pacific Bldg., Los
 Angeles.

Class Contract Awarded.
THEATRE Cost approx. \$1,000,000
OAKLAND, Alameda Co., Cal. Broad-
 way near Hobart Street.
 Class A theatre building.
 Owner—Public Theatres, Inc.
 Architect—Miller & Pfueger, 580 Mar-
 ket St., San Francisco.
 Contractor—Geo. Wagner, 181 South
 Park, San Francisco.
Glass—Hahnicht and Howlett, 5 2 3
 Clay St., San Francisco.
 Other awards reported March 25.

VARIOUS POINTS—Hughes-Frank-
 lin Theatres, 7051 Hollywood Blvd.,
 announce completion of arrangements
 for construction of sixteen of the
 thirty-three theatres to be built for
 them this year. In addition to build-
 ings for the Leimert Park District,
 Pomona and Whittier, previously an-
 nounced, the program includes thea-
 tres at the following locations: Sun-
 set and Laurel, Hollywood; Vermont
 and Franklin Aves.; Hollywood Blvd.
 and Hudson Ave.; Compton and
 Florence Aves.; Yakima, Wash.; Seattle,
 Wash.; Wichita, Kan.; Topeka, Kan.;
 Bremerton, Wash.; Sherman, Tex.;
 Dallas, Tex.; McAlester, Okla., and
 Palestine, Tex.

April 14, 1931
 Contract To Be Awarded.
ALTERATIONS Cost, \$50,000
OAKLAND, Alameda Co., Cal. 445
 23rd Avenue.
 Alterations to class C steel frame and
 concrete theatre (wood joists).
 Owner—Golden State Theatre & Real-
 ty Co., 25 Taylor St., San Fran-
 cisco.
 Architect—Redd Bros., 105 Montgom-
 ery St., San Francisco.
 Contractor—Alfred J. Hopper, 17 6 9
 Pleasant Valley Road, Piedmont.

WHARVES AND DOCKS

Contract Awarded.
WHARF Cost, \$2456
LAKEPORT, Lake Co., Cal.
 Steel and concrete wharf (concrete
 concrete piling).
 Owner—Town of Lakeport, F. L. Coles
 town clerk.
 Plans by Town Engineer, Lakeport.
 Contractor—Chas. Kupplinger, Lake-
 port.
 Ben C. Gerwick, Inc., San Francisco,
 only other bidder at \$4,800.

EUREKA, Humboldt Co., Cal.—
 Until 5 P. M., April 21, bids will be
 received by John Griffith, Superinten-
 dent of Public Works, for driving piles
 at Hawthorne street and Broadway.
 Certified check 10% payable to city re-
 quired. Specifications obtainable
 from above.

**MISCELLANEOUS
 CONSTRUCTION**

SAN FRANCISCO—M. M. O'Shaugh-
 nessy, city engineer, seeks \$125,000
 appropriation in the coming fiscal
 year budget to finance purchase of a
 site for a new incinerator.

SAN FRANCISCO—Until April 27,
 8 P. M., bids will be received by Frank
 T. Kennedy, secretary, Board of Fire
 Commissioners, 2 City Hall, for dry-
 docking, repainting hull, overhauling
 and repairing the fireboat "David
 Scannell." Specifications obtainable
 from above.

Plans Being Figured.
STUDIO SCENE DOCK Cost, \$—
CULVER CITY, Los Angeles Co., Cal.
 Frame and stucco studio scene dock
 (120x225 feet).
 Owner—RKO Pathe Studios, Wash-
 ington Blvd., Culver City.
 Architect—Eng. Dept. of Owner.
 Fabco composition roofing, skylights,

steel sash, reinforcing steel, tol-
 wood and cement floors, etc.

Plans Being Figured.
STAGE BLDG. Cost, \$—
CULVER CITY, Los Angeles Co., Cal.
 Frame and stucco stage building (120
 150 feet).
 Owner—RKO Pathe Studios, Wash-
 ington Blvd., Culver City.
 Architect—Eng. Dept. of Owner.

Plans Being Figured—Bids Close
 17th.
RECREATION CENTER Cost, \$—
WOODSIDE, San Mateo Co., Calif.
 Recreation center (work involve
 swimming pool, dressing room, club
 room, kitchen, barbecue
 aviary, etc.).
 Owner—Withheld.
 Architect—Noble and Archie T. Ni-
 som, Russ Bldg., San Francisco.

Plans Being Completed.
TRACK Cost, \$200
BERKELEY, Alameda Co., Cal. U-
 versity Campus.
 Reinforced concrete track (Stad-
 Bowl) (to seat 20,000 approx.).
 Owner—University of California.
 Architect—Warren C. Perry, 260 C
 Florida St., San Francisco.
 Plans will be ready for bids in ab-
 six weeks.

CALIFORNIA—A. C. Fleury, sta-
 supervising quarantine officer, Sacra-
 mento, announces construction will
 started this year on two new sta-
 border inspections, one to be loca-
 on the Redwood Highway and anot-
 on the Pacific Highway. The form-
 will be located between Grants Pa-
 Ore., and Crescent City, Calif., and
 the latter north of Hornbrook near
 Oregon Line. The structures will
 of log construction with public con-
 venience stations.

SAN FRANCISCO—Home Manu-
 facturing Co., 652 Brannan st., aware
 contract by Board of Supervisor
 under Proposal No. 703, to furn-
 museum cases with frames of extru-
 ded aluminum alloy, as follows:
 H. M. DeYoung Museum
 Item No. 1, 16 cases Type "A",
 price each \$116.55.
 Item No. 2, 18 cases, Type "B",
 price each \$90.25.
 Item No. 3, 8 cases, Type "C",
 price each \$91.35.
Legion of Honor
 Item No. 4, cases, glazed comple
 Type "A," each \$116.55.

SAN FRANCISCO—Until April
 11 a. m., bids will be received by Co-
 structing Quartermaster, Fort Mss
 for repairs to wire fences at Ft.
 Mile. Specifications obtainable fr-
 above.

SACRAMENTO, Sac. Co., Calif.
 Carpenter & Mendenhall, 907 Fro
 St., Sacramento at \$3,373.44 submit
 lowest bid to county clerk, to inst-
 lawn sprinkling system on grounds
 Sacramento County Hospital.

Following is a complete list of th
 bids received:
 Carpenter & Mendenhall, Sac. \$3,37
 NuVay Lawn Sprinkler Co. \$3,476.
 Pacific Lawn Sprinkler Co. \$3,623.
 Scott Plumb & Elec. Co., Sac. \$3,83
 P. L. Burr, S. F. \$3,982.
 J. A. Frazio, Oakland, \$5,279.
 Bids held under advisement.

**MISCELLANEOUS SUPPLIE
 AND MATERIALS**

LINDSAY, Tulare Co., Cal.—Un-
 April 28, 8 P. M., bids will be receiv-
 by E. V. Egan, city clerk, to furn-
 and deliver gasoline, kerosene an
 lubricating oils for ensuing year; de-
 liveries to be made City Water Work
 Plant No. 1. Further information ob-
 tainable from clerk.



BUILDING *and* ENGINEERING NEWS

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BUILDERS'
EXCHANGE
Glencort 7400



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LABOR RESTRICTION PLAN OF SAN JOAQUIN

San Joaquin county contractors and laborers have been requested by the San Joaquin County Board of Supervisors to co-operate in the preparation of any ordinance submitted which aims to place labor restrictions upon public construction work in the county.

At a hearing last Monday in connection with a proposed ordinance introduced by C. C. Williams, secretary of the Building Trades Council, developed a difference of opinion between the contractors and labor group. Earle Lewis of the Stockton Builders' Exchange submitted a letter from that organization opposing the ordinance. The proposed ordinance contemplates restriction which will force contractors on county work to employ San Joaquin county labor. The Builders' Exchange contends the ordinance would place a hardship upon contractors.

Williams contended that numerous other cities and counties have such ordinances and that the action would merely by a protective measure for county laborers and residents.

When objection was raised to the one-year residence provision in the proposed ordinance, Williams declared his group willing to compromise to 90 days. Questioned by Supervisor Mary French, he declared the titles of building circles permits a contractor using his clerical and executive force on any job regardless of the county, and such would be permitted in San Joaquin county. He contended that as taxpayers local labor is entitled to the opportunity of working on county jobs regardless of whether the contractor is an outside man or not.

After considerable discussion during which board members expressed an opinion that there was some merit to the proposed ordinance, the hearing closed with the request that the opposing sides work out an ordinance agreeable to all concerned. Supervisor E. E. Steinegull suggested that the ordinance might stipulate that a certain percentage of laborers must be local county residents.

One of the chief points raised in connection with the proposal was that police activities would be required to determine whether the men employed in all jobs were local residents or not. Williams declared the movement to protect county workmen has not been endorsed by labor groups and is being advanced by labor leaders acting as citizens of the county.

The San Mateo county supervisors have passed Ordinance No. 369 providing for the opening and connecting of sewers maintained by districts formed under the County Improvement Act of 1921, which ordinance also provides for the appointment, compensation and duties of sewer inspectors and other employees and requiring certain buildings to be connected with such sewers.

MARCH BUILDING GAINS 50 PER CENT

Building permits issued during March increased 50 per cent over February and new non-residential buildings authorized jumped approximately 75 per cent, according to the U. S. Department of Labor.

Tabulation of reports from 347 cities throughout the country, showed new residential construction authorized during March totaled \$50,602,646 against \$37,651,622 in February. New non-residential permits issued were \$82,316,431 against \$47,170,923.

Total authorized construction including alterations and repairs, was \$152,870,109 against \$101,528,521, a 50.6 per cent gain.

The new construction included 11,794 residential buildings, a gain of 32.5 per cent over February.

"DISHONEST PRACTICE" IS LAID TO DONOVAN

Revocation of the license of John J. Donovan, Oakland architect and a member of the State Board of Architectural Examiners, is asked by Fred Farris, in a complaint filed with the state architectural body.

Farris charges "dishonest practice and unprofessional conduct."

In the complaint, Donovan, who is said to be a stockholder in an Oakland window manufacturing company, is accused of so drafting plans for Farris that only the windows on which the architect's company holds the patents could be used; and that Donovan by "his acts has made it possible for the said company to ask such price or prices for their products as they wish, without competition; and that the said defendant is thereby receiving as president and stockholder of said company secret and excessive profits by thus preventing and restricting competition."

Donovan, it is said, readily admitted he had recommended the use of his own window, as he considered it superior to others in certain types of buildings. He said he was at a loss to know the motive behind Farris' accusations, however, as he does not know the man and "never saw him nor had any business dealings with him."

\$1,000,000 ASKED IN ELECTRIC FIRM SUIT

George C. Degner, inventor, has filed a \$1,000,000 suit against the General Electric Company in the United States district court at Los Angeles.

Degner charges the electric company with manufacturing and selling traffic signals which embody major characteristics of a signal which he invented and patented.

SANTA BARBARA GOES 5-DAY WEEK

The Santa Barbara County Board of Supervisors by a vote of 4 to 1 adopted a policy for a five-day working week for day laborers and indicated the work policy, would be required in all county contracts.

Chairman Preisker presented the resolution for such a working policy last week, but the supervisors delayed action on it to give it further study.

In asking the adoption of the five-day work for the county, Chairman Preisker said he had been operating his road department on that basis with great success.

"The five-day week is the ultimate solution to the present unemployment situation," he declared. "Santa Barbara county should be the first in the State to adopt the five-day week. It is coming and there is no stopping it. Industrial leaders in all parts of the county are advocating it. Santa Barbara county was among the first to adopt a standard wage. We first demanded local labor for public works. We should set the pace again for the state with the 5-day working week."

BUILDERS' SERVICE TAKES OVER MINTON

The Minton Company of Mountain View announces disposal of its lumber, mill, building material and plumbing business to the Builders' Service Company, recently organized.

Earl D. Minton, president and manager of the Minton Company, will go into the construction business exclusively and will move his offices and headquarters to Palo Alto with a branch office in San Jose.

Alfred Olson, J. E. Carter, J. L. McPheters, and August Landon, formerly directors of the Minton Company, have resigned and will be directors in the new concern at Mountain View.

H. A. Hoyt and William Schwartz will join the Minton Construction Co. in Palo Alto.

M. E. Joslin, until last week treasurer of the Woodhead Lumber Company in Los Angeles, has been elected manager of the Builders' Service Company, and he will arrive in Mountain View within the next few days.

Governor Ritchie of Maryland will welcome some 2,000 realtors expected to attend the annual convention of the National Association of Real Estate Boards to be held in Baltimore, May 27 to 30. The Governor will speak at the opening session of what promises to be the largest conclave of the real estate men held for some years. Eight hundred and seventy-five reservations from more than 100 cities located throughout the United States and Canada are now in the files of the Association headquarters in Chicago, with new names being added every day.

NEW PLAN OF FINANCE FOR BUILDING CONSTRUCTION

By O. W. ROSENTHAL

Because of the financial situation, the construction industry is paralyzed. While we are overbuilt in some types of buildings in some localities, we are not generally overbuilt, and structures of all kinds are needed. An extremely large modernizing program is necessary at this time to protect property values. With the sound of the hammers on construction projects, there will be a general feeling of encouragement that will be reflected in all business.

The finance plan I advocate will make funds available for those desiring to build or modernize and will immediately have its effect upon the unemployment problem by providing work for a vast number of workers.

There is in process of organization The Construction Investment Trust which will issue shares of certificates of interest supported by thousands of mortgages. The diversification of types, as well as location, will set up a security second to none for investment purposes.

Up to this time the real estate mortgage bond was the best method thus far devised for bringing together the necessary funds for large enterprises. However, circumstances and mal-administration has caused the public to lose confidence in this class of security.

The real estate mortgage bond differs from Construction Trust Shares in the fundamental essential of investment, namely: security. A bond issued against an individual enterprise is only as good as the enterprise regardless of the equity requirements, and if, through mismanagement or otherwise, the enterprise does not succeed, the value of the bond is impaired; whereas, Construction Trust Shares will be supported by thousands of mortgages, and should a percentage of them become distressed, it would not materially impair the value of the security.

The public has become extremely timid about selecting its investments of all kinds because of recent unfortunate experiences. It does not know where to turn for advice because much of the advice given in the past has not been sound.

Because this public confidence has been shaken, the soundness of the investment must be immediately obvious.

Construction Trust Shares supported by such wide diversification offers to the investing public the security it must have. This, together with substantial yield, will provide everything that is desired as to security and profit.

The entire construction industry, realizing that the solution of this tremendous problem of sound investment and real estate development is the obligation of the industry, offers this solution of the problem.

The Construction Investment Trust, in the hands of sound management, outstanding men of integrity and ability in finance, construction, and property management, will re-establish the confidence of the investing public in real estate securities.

According to the plan it is proposed to organize a Construction Investment Trust which will issue shares or certificates of interest. These shares to be supported by loans not upon one structure, but upon thousands of structures, so should one building become distressed because of misman-

A new plan of finance for building construction has been drafted by O. W. Rosenthal, President of the National Association of Building Trades Employers.

Mr. Rosenthal has devoted considerable thought and time devising a plan which will stimulate construction activity and will encourage an early resumption of construction work. He has spent practically a year in studying methods of financing with the idea of developing a plan which would meet with the approval of the general public and which at the same time would be one which would appeal directly to those engaged in construction activities as a sound scheme for financing new construction, different from the old methods used preceding the present depression.—Editor.

agement or otherwise, the risk would spread upon so many structures that this would not impair the value of the security. The risk is further minimized by the diversity of types as well as geographical diversification.

The organization will maintain a department constantly in touch with experts thoroughly versed in the management and conduct of building enterprises. It will carry in its contract a clause permitting its management, when necessity demands, to place such experts in charge to straighten out the management of any individual building. This will have the effect, first of safeguarding each individual loan; and, second, where others make the first mortgage, it will reassure them to have so strong an institution jointly with them upon the property. This should immediately make first mortgage money available from other sources as well.

This plan differs from the old method which was an underwriting contract whereby the house of issue agreed to purchase the securities. These securities of necessity were offered to the investing public, and only as the investing public purchased them did the capital again become liquid for further loans. Therefore, the underwritings were limited by the ability and inclination of the public to absorb the securities.

This was a costly method and created an unusual situation with regard to competition for issues, as well as competition in selling. It was largely responsible for the present stagnation in building construction.

Under the plan of the Construction Investment Trust, there would be a constant flow of money through the Construction Trust shares. There would be no necessity for the sale of bonds or mortgages. There would be no underwriting beyond the available funds, and the tremendous expense of operation and selling to individual investors would be eliminated.

One part of the industry cannot make the plan a success. Each part must do its share. One part must not be called upon to furnish funds whereby those who furnish no funds shall have employment eliminated.

Once the building industry demonstrates its confidence by investing its own funds in construction projects, it will immediately strengthen the confidence of the investing public, which

will then proceed to place its funds in construction securities.

The plan of the construction investment trust, when in full operation, will insure to every one in the building industry a continuous market for services and material. It will hold the business more nearly level.

For the building contractor, the architect, the engineer, the realtor, the seller of materials, and the manufacturer, this plan will operate as a stabilizer and an assurance of continuous business. It will meet what President Hoover recently declared to be the greatest need of the building industry—a need which when met, will have the effect of keeping our building program up-to-date, with everything moving in a steady stream from the mill to the completed structure. It will be a powerful factor in the elimination of over-production in one period and under-production and depression in another; it will eliminate unsound conditions within the industry.

It will meet the one great need of the construction industry, the provision of funds for sound first mortgages and also funds, when advisable, to bridge the spread between the conservative first mortgage loan and private capital for building projects. It will go farther to induce the public to place its funds in building operations than any amount of unsupported argument. The industry is practically at a standstill and under the circumstances, to ask labor and employer, both of whom have been through a period of unemployment and hardship to use a portion of their earnings for investment purposes, regardless of their debts and obligations, is indeed putting them to a severe test.

The Construction Trust Shares, representing as they will sound and profitable investment, will be offered to the investing public, which will be a tremendous field. Mortgages will be offered to the investing public and to institutions.

LICENSE BILLS FAIL TO PASS IN OREGON

A bill to regulate the practice of professional engineering and surveying in the State of Washington was vetoed by the governor on March 31. The governor in his veto message said:

"This is a lengthy, complicated and technical bill for the regulation of the profession of engineering, embracing 'investigating, reporting on, designing and/or supervising the construction of equipment, structures, utilities and/or projects, when the proper performance of such services requires technical engineering knowledge and skill, and shall include civil, mechanical, structural and/or hydraulic engineering,' and land surveying. It would create another board. If the necessity for such a law were admitted, the provisions of the present bill are objectionable for their drastic and far-reaching effects."

In Oregon a bill to amend the license law in order to improve the definition of the practice of engineering was killed in the state senate. The definition of the practice of engineering given in the Oregon law enumerated in detail the various operations carried on by engineers. The amendment was to add operations not specifically mentioned in the existing law.

FEBRUARY BUILDING ACTIVITY IN LEADING CITIES THROUGHOUT THE UNITED STATES**

City	One-Family Dwe Igings		Two-Family Dwellings		Multi-Family Dwellings		Total for the Month		Families Added	Popula-tion*
	No.	Cost	No.	Cost	No.	Cost	No.	Cost		
Atlanta	27	\$ 104,060	8	\$ 18,000	2	\$	292	\$ 282,971	49	347,991
Baltimore	54	271,000	33	129,000	2	195,000	874	2,757,450	245	789,921
Berkeley	9	33,900			2	32,500	69	157,044	81	81,543
Boston	26	132,000	9	67,000	5	376,440	332	2,183,609	151	783,451
Buffalo	3	13,000	8	44,000	3	53,000	143	613,560	39	572,217
Chicago	75	462,300			13	255,900	126	7,877,000	126	3,373,753
Cincinnati	59	265,750	3	17,000	2	43,000	309	1,797,205	75	447,630
Cleveland	39	292,000	4	34,500			216	2,416,875	47	901,922
Denver	53	211,500	3	18,000	1	91,000	329	509,500	72	257,728
Detroit	171	890,200	24	197,600	3	60,000	264	2,021,060	265	1,564,897
Indianapolis	33	189,325	10	65,900			668	524,790	53	362,527
Kansas City	28	114,500					186	271,000	28	399,640
Los Angeles	250	943,428	45	263,204	22	282,400	1889	3,670,782	481	1,231,730
Memphis	26	66,550			2	6,500	269	248,300	30	252,049
Milwaukee	18	100,700	13	95,700	3	370,000	199	1,037,588	121	568,362
Minneapolis	63	245,125	4	28,200	2	46,000	321	376,060	75	462,617
New Orleans	21	76,100			1	20,000	107	291,615	15	451,634
New York	689	3,271,250	66	598,500	47	6,910,000	1914	24,058,587	2755	6,958,732
Bronx	41	329,050	6	89,500	20	3,335,000	519	4,545,075	956	.....
Brooklyn	100	616,500	60	509,000	15	2,499,900	349	4,233,011	925	.....
Manhattan							199	10,143,110	.....	.....
Richmond							101	228,066	.....	.....
Queens	448	2,325,700			12	1,076,000	746	4,893,236	874	.....
Oakland	47	188,525				42,000	253	1,000,035	.....	284,213
Omaha	24	104,100	1	7,000			76	937,896	26	214,184
Philadelphia	104	447,700			2	112,000	512	1,343,455	151	1,963,000
Phoenix	10	35,300			3	25,500	43	206,375	28	47,950
Pittsburgh	51	267,855	13	95,000	1	15,000	65	377,885	83	644,755
Portland	50	265,000			2	90,000	453	662,400	75	299,122
San Diego	37	179,750	1	3,800	7	62,000	45	386,442	65	147,907
St. Louis	75	332,300	8	62,300			423	1,688,340	91	817,334
San Francisco	150	673,037	5	44,000	5	300,000	160	1,017,037	241	625,974
Seattle	75	270,250			3	235,000	422	879,825	142	362,426
Washington, D. C.	86	722,425				3,444,000	396	5,159,315	600	488,716

*Population figures taken from 1930 Federal Census.

**Prepared by J. J. Rees Engineering Company, Los Angeles; data from respective cities' building departments.

BUILDING TO HAVE GARAGES FOR PLANES

garage and landing field for air-
ft on top of tall office buildings
s been patented by John Schimmel
Philadelphia.
Planning pilots would direct their
nes into a wind tunnel only twice
wide and twice as high as the ma-
me itself. On either side of the
mel fans set in motion by a signal-
ing would force air out at the ex-
act ed of the landing plane. When the
ne comes to a stop, the propellers
t the fans would be cut off at the
ne instant.
In elevator would then remove the
ne to the garage on the floor be-
e. In order to meet various condi-
s of wind direction, the tunnel
uld be movable.

NEWSPAPER URGES SMALL FARM HOMES

This year's "small farm contest"
the Los Angeles Times, in which
ses are offered for the best small
n homes each year, has drawn a
ge number of entries. The contest
ducted through the daily's farm
d garden magazine, a weekly sup-
ment, assisted by the Los Angeles
mber of Commerce. The first con-
t was held in 1929.
An attempt is also being made to in-
est several local manufacturing
nts to finance the purchase of such
erties for those of their workers
o want this type of home, on a
dily or monthly payment plan as
a form of employment or old age
urance.
Iarold M. Finley, editor of the farm
d garden magazine, and George J.
ments, manager, agricultural de-
partment, Los Angeles Chamber of
mmerce, developed the contest de-
s, which are in charge of Ross H
st, local agricultural writer.

STATE ARCHITECTS' ASSOCIATION SEEKS A.I.A. AFFILIATION

Under the leadership of Robert
H. Orr, president of the State As-
sociation of California Architects,
the meeting of state architects'
societies held at San Antonio, Tex.
last Monday, the day preceding
the national convention of the
American Institute of Architects,
decided unanimously in favor of
affiliation of all states societies
with the American Institute for
the purpose of upholding the pro-
fessional ideals of that organiza-
tion and urging the affiliation of
all architectural societies working
through the Institute and to in-
clude all architects in the nation.
At the first session of the In-
stitute the directors introduced a
resolution favoring this plan.

TO AUDIT BOOKS OF ACCUSED SURVEYOR

The Stanislaus County Board of
Supervisors has unanimously vot-
ed for a complete audit of the
books of John H. Hoskins, former
county surveyor, now in the coun-
ty jail in default of \$10,000 bail
on four counts of altering papers
and records filed in a public office.
The audit of the books will cov-
er the eight years Hoskins held
the office of surveyor.
According to District Attorney
Robert R. Fowler, the defendant
and Henry Clinton, Green, a deputy
in Hoskins' office, manipulated
the county payrolls of their de-
partment and secured large sums
of money. Green is also under
arrest and in jail in default of
bail.

MABREY, SACRAMENTO CONTRACTOR, BANKRUPT

Listing secured and unsecured
claims totaling \$2,087,034.43, Char-
s S. Mabrey, Sacramento contrac-
tor, has filed a voluntary bank-
ruptcy petition in the United
States District Court.
The petitioner was the presi-
dent of the Charles S. Mabrey
Construction Company.
Four insurance policies, totaling
\$16,500, were listed as the only
possessions of Mabrey and in the
petition the policies are claimed
to be exempt.
The secured claims, which are
declared to have been foreclosed
or transferred, amount to \$466,-
093.96, while the unsecured claims
total \$1,620,940.47.

Nevada's Labor Laws Apply on Boulder Job

Nevada's labor laws and the rules
and regulations of the state mine in-
spector's office are in every way ap-
plicable to the Boulder Dam construc-
tion work, according to opinions ren-
dered by Gray Mashburn, Nevada
State Attorney General, at the re-
quest of William Royle, State Labor
Commissioner and A. J. Stinson, State
Mining Inspector.
Mashburn says that the work at
Boulder Dam is being done by private
concerns and that as Congress pass-
ed no act creating a United States
reservation at Boulder canyon that
the Nevada laws apply to all work
going on there on the Nevada side of
the river.
He says that the mine inspector has
full power to enter and inspect any
of the workings at any time just the
same as he has in mines operating in
the state and that there is no con-
flict between federal laws and state

THE OBSERVER

What He Hears and Sees on His Rounds

Alfred T. Forward, 54, lumberman of Tehama County, died April 14, following a three years' illness.

William Wallace Mein, president, and all other officers of the Calaveras Cement Company, were re-elected at the initial meeting of the new board of directors held April 16.

March wholesale prices of six standard plumbing fixtures for a six-room house, ascertained by the Bureau of the Census from reports of 12 representative manufacturers and wholesalers, averaged \$97.86 as compared with \$96.49 in February, \$104.51 in March, and \$98.51 in March, 1929.

A warrant issued December 27, 1928, last Wednesday caused arrest of C. W. Strouss, former Redwood City contractor, on a charge of theft of labor, sworn to by L. A. Newman, Ahertown carpenter. Newman alleges Strouss employed him in 1928 and failed to pay him \$225 wages. Bail has been set at \$1000 cash or \$2000 bond.

More than 5000 new single family homes are now needed in the Eastbay group of cities to restore a normal status, according to an analysis of residential accommodations made by the Oakland Real Estate Board. Restoration of normal employment condition in the city is creating an actual market demand for such properties at the present time, the board reports.

The Oakland city charter is being violated by three contractors on city work who pay less than the prevailing wage scale and give preference to outside labor, according to a protest filed with the city council by Charles E. Gurney, secretary-treasurer of the Building Trades Council of Alameda County. The three, according to Gurney, are M. J. Bovanada, of Stockton, working on a Foothill boulevard paving contract; the Western Road Company, and Lee Immel.

The National Lumber Manufacturers' Association has appealed to the U. S. Tariff Commission to forbid the import of Russian lumber on the grounds of unfair competition. It is charged that Russian mills and timber have been acquired by the government without cost and are being exploited by the aid of direct and indirect subsidies which is unfair to private competition.

Galen F. Oman, chairman of the committee on public information of the Columbus Chapter, American Institute of Architects, says:

"The depression we have been experiencing is only the natural swing of the pendulum following the building boom. The unfortunate part of this situation is not so much the fact that the country was overbuilt as that the speculative disregard for quality limited the quality building market to about 25 per cent of the total program. This means that about three-fourths of the total construction has resulted in a liability rather than an asset. We believe that during the calm of depression the realization of just what has happened will dawn upon the building public, and as the breeze of building activity increasingly stirs they will awake to demand quality construction, good design, efficient and economical planning."

An unusual development in oil burner sales strategy is the Summerheat portable unit which can be taken into a prospective customer's cellar and demonstrated on his own furnace, says the Business Week. The unit is of aluminum construction, weighs less than 125 lbs.; it carries a 36-hr. supply of oil in 2 interchangeable bottles; automatic control is obtained by a portable thermostat.

For permanent installations, this new product of Summerheat Corp., Dowagiac, Mich., can be connected with a regular 275-gallon basement tank—the bottles still being useful to provide an emergency supply against a fireless week-end. The demonstration unit, as is, can also be employed to serve fall and spring heating requirements, to provide hot water in summer, to meet the needs of renters who do not want to make permanent installations. The entire unit is secured to the fire door of the furnace, opens with it so that, if desired, for use with Nos. 1, 2, and 3 oil and West Coast Diesel oil.

It is supplied in 1 size and 4 models to suit all home sizes and all types of heating plants—steam, vapor, water, or warm air. The unit has been approved by Underwriters Laboratories, Inc., for use with Nos. 1, 2, and 3 oil and West Coast Diesel oil.

Alameda County Building Trades Council, in a communication to the Oakland city council, alleges that M. J. Bovanada, Stockton contractor, who has a contract with the city for the improvement of Foothill boulevard, is violating charter provisions which require that local help shall be employed and that the prevailing wage shall be paid. The Trades Council also alleged that outsiders are employed on this work, and that wages as much as \$4 below the scale are being paid by Bovanada. The council referred the matter to the commissioner of streets and to the city attorney, for recommendation.

The annual meeting of the American Road Builders' Association will be held in Washington, D. C., on May 15. Other meetings of old and incoming boards of directors of the national association and the various divisions will be held on May 14 and 16.

Plans will be perfected at these meetings for the work of the coming year. Among the subjects to be discussed are the appointment of joint co-operating committees with the American Association of State Highway Officials and the Highway Research Board, and the chairman of more than a score of committees that will engage in the investigative work of the year.

Results of committee work during the past year will be reviewed and new subjects for committee work examined and approved. Members have submitted a number of new subjects for investigation.

Meetings will be held of the old and incoming boards of directors of the County and City Divisions. The various executive committees will also meet and plan their work.

A. Kruse has submitted a proposal to the Hayward, Calif., city council seeking to make it mandatory on all plumbers applying for a municipal license to undergo an examination as to their ability to perform plumbing

work in accordance with a proposed plumbing ordinance. He cited an example of a woman who hired a plumber on a per diem basis, the work costing her \$54, when an accredited plumber could have done the job for \$12. Examinations, he contended, are in force wherever there is a made plumbing ordinance.

Businessmen who attack the depression with wage cuts are groping an economic quagmire, a group of nation's foremost economists warned the current issue of the American Economic Review.

The "overproduction myth" is repudiated by the conclusions of a symposium, and higher wages are pointed to as the most effective way out of the slump.

Assessing widespread acceptance of the suggestion that overproduction is the basic factor in the depression Carl Snyder, economist for the New York Federal Reserve Bank, submitted new studies of world production of basic commodities since 1930, showing that the rate of increase in industrial output was smaller in the five-year period 1925-29 than in the pre-war era.

Fresno County will either employ union labor or no labor at all, according to work from the San Joaquin Valley metropolis.

Bids for painting the county courthouse have been rejected and it is probable that the structure will go unpainted for another year.

A Fresno non-union contractor submitted the lowest bid for the work \$4,190 with materials furnished, or \$1,985, materials unfurnished. The next lowest bidder was a San Francisco concern, said to be a union operator with a figure of approximately \$5 higher.

The Fresno Building Trades Council protested award of contract to the local bidder on the grounds of "irreproachable liability," declaring that the material paint the structure would cost not be less than \$1,500, whereas, under the local bid, the amount designated for the item is little more than \$1,200. The bid, the trades council claims, would not permit the use of high grade materials.

The \$5,000 available for the paint work will go into the 1931-32 budget to be used at the discretion of city county supervisors.

Reports of new orders for fabricate structural steel for the week ending March 28, 1931, were received from 12 establishments, whose capacity represented 37.9 per cent of the total capacity of all plants in the United States. The bookings reported by the establishments amounted to 9,322 tons representing 26.7 per cent of the total capacity of the reporting establishments. Reports of shipments of fabricated structural steel for the same week were received from 99 establishments, whose capacity represented 36.2 per cent of the total capacity of all plants in the United States. The shipments reported by these establishments amounted to 19,796 tons representing 59.2 per cent of the total capacity of the reporting establishments.

CO-EDS SUE PAVING FIRM FOR \$168,000

Three University of Southern California co-eds, Helen Melone, Anna W. and Margaret Holland, who were injured last October when returning south from a football game at Berkeley, have sued the Valley Paving & Construction Company of Fresno for \$168,000 damages. Suits were filed in Los Angeles Superior court and transferred to Visalia where the construction firm formerly maintained head quarters.

ALONG THE LINE

Col. B. C. Allin, director of the Port Stockton, will leave May 15th to accept a brief appointment as consulting engineer for the Port of Ohavanna, India.

Charles S. Howard of San Mateo has been elected chairman of the State Board of Forestry. B. A. McAllister, Piedmont, has been named vice-alman. M. B. Pratt, state forester, is nominated to succeed himself, the nomination to be made by D. H. Hod, director of natural resources.

Nomination of Edward A. Duffy of Attle, Wash., president of Reitz, Gray & Duffy, consulting engineers, Mayor Edwards to the position of superintendent of the city lighting department, succeeding J. D. Ross, recently dismissed by the mayor, has been rejected by the city council. This is the third nomination to the position the mayor to be rejected by the council.

The home financing business may not be the list of industries backed by national advertising programs, it is indicated in the announcement of a committee of the United States Building & Loan League to consider the subject. The league's national advertising committee will study possibilities and methods of nation-wide cooperative business building for savings, building and loan associations. In H. Hazen, Benjamin Franklin, Portland, Ore., will head the committee. Hazen's business development work with the Portland association has won recognition throughout the Pacific west.

Walter B. Robinson, Southern Oregon and Northern California mining engineer, has been named assistant state engineer by C. M. Thomas, the Oregon public utilities commissioner. Robinson has been engaged in mining engineering for many years. For the last several years he has been in charge of operations at the Blue Edge copper mine at Copper in Siskiyou County Calif., near the Oregon state line.

The lumber and materials group in Los Angeles sold more than \$4,000,000 worth of material retail in 1929, according to the U. S. census report.

LIGHTING ACTIVITIES NOW IN ONE DIVISION

All lighting activities of the Westinghouse Electric and Manufacturing company, which are centered in the Cleveland Works, have been coordinated in one division. This organization is under the management of L. A. S. Wood.

The grouping of all lighting activities under one head was arranged in order to more effectively promote the sale of Westinghouse lighting equipment, according to Wood. This new form of organization completes plans which were made at the time Westinghouse lightning activities were established in Cleveland.

The lighting section will be organized under two principal groups. In the street lighting group will be street and sign lighting, tunnel, bridge and general lighting. Commercial lighting will include commercial and industrial lighting, food-lighting, athletic field lighting, industrial yard and railway lighting, dock lighting, airport and exposition lighting.

TRADE NOTES

E. A. Traferer, formerly with Celite Products Co. and Johns-Manville, has accepted a position with the Paraffine Co., Inc., as sales engineer. Mr. Traferer will specialize in diatomaceous earth products and insulating brick for high temperatures.

George W. Froesch, 2703 Stuart St., Berkeley, will operate in the East Bay district under the firm name of Building Specialties Company.

F. E. Tompkins and Frank O. Henkel, operating the Sonoma County Millwork & Roofing Company at Santa Rosa, announce a dissolution of the partnership.

James Hunter Roper will operate from 1560 Albee Street, Oakland, under the firm name of Building Service Company.

Bay Cities Hardware Alliance, Ltd., capitalized for \$50,000, has been incorporated in San Francisco. Directors are: W. B. Hocking, M. E. Page, F. E. Ruggles, E. R. Calvert and Henry C. Lind.

KANSAS DEMANDS ENGINEER LICENSE

Among the bills passed by the Kansas legislature at its recent session was one providing for the registration of professional engineers. Provision is made for a registration and examining board composed of five registered professional engineers, who must be 35 years of age and residents of the state for three years, as well as members in good standing of a recognized state or national engineering society. Not more than two members of the board shall be from the same branch of engineering. The registration fee is \$25 and the annual fee \$2.

An applicant for registration must be 25 years old, have been actively engaged at least four years in professional engineering work, and submit satisfactory evidence that he is qualified and experienced in professional engineering in one or more of the following branches: civil, mechanical, electrical, architectural, mining and chemical. The character, training and experience of the applicant shall in no case be less than that required for membership in the American Society of Civil Engineers, American Society of Mechanical Engineers, American Institute of Electrical Engineers, or similar national engineering society covering the field of engineering in which he wishes to practice.

A copartnership, a corporation or a joint stock association may engage in the practice of professional engineering as registered engineers, provided such practice is carried on under the responsible direction of one or more registered professional engineers, whose name or names shall appear on all plans and other official documents connected with such professional engineering practice.

Bids will be received tomorrow evening by the Monterey Union High School District to erect a one-story reinforced concrete and tile gymnasium in addition to the construction of a swimming pool on the school grounds. Ewartz & Ryland, the architects, estimate the cost at \$100,000.

HERE—THERE EVERYWHERE

The city council of Hanford, Calif., is considering adoption of the Uniform Building Code as prepared by the Pacific Coast Building Officials' Conference. Representatives of the Pacific Coast Fire Underwriters and various building crafts in the Kings County district urged adoption of the code at a recent meeting of the council.

Asking judgment of \$1,065, Mrs. Mathilda S. Palmquist of Duluth, has filed suit in the superior court at Visalia against the Master Plumbers' Mutual Benefit Association. Mrs. Palmquist states her husband, who was killed in an automobile accident last summer, was a member of the association and that she was entitled to a death benefit from a fund maintained by the group.

The Vallejo Building Trades Council has joined forces with the state council in an effort to obtain legislation through the Maloney bill which will prohibit employment of alien labor on public works projects.

Arcois, Limited, the Soviet trading organization in Great Britain, has placed with the Ruston-Bucyrus, Ltd., London, an order for 32 excavators valued at over \$500,000. These machines, which include a number of large sizes up to 3½ cubic yards capacity, are for steam and Diesel engine operation. They will be delivered during the second quarter of the year and will be used on construction projects in various parts of the Soviet Union.

EDY IS APPOINTED DALLAS CITY MANAGER

John N. Edy, former city manager of Berkeley and more lately holder of a similar post in Flint, Mich., has been named first city manager of Dallas, Texas.

In his new post Edy will receive an initial salary of \$16,500 annually. In Berkeley he was paid \$10,000 a year and at Flint \$15,000.

Edy was Berkeley's first city manager, assuming office there in 1923, after serving as an engineer in the street department of St. Louis, various other engineering posts and chief state highway engineer of Montana. In 1925 he declined an offer to serve as city manager of Cincinnati, O., at a salary of \$25,000 per year.

Last May he resigned the Berkeley post, and went to Flint to become the first city manager there when the new form of municipal government was instituted. He received a starting salary of \$15,000 annually which was to have increased to a maximum of \$20,000 a year.

A week ago Edy tendered his resignation following an election in Flint in which the faction which had hired him was ousted from power. His job and salary were the principal campaign issues.

He immediately sent his application to the Dallas council, just elected under a city manager charter. The charter provides that the manager shall receive a salary ranging from \$15,000 to \$25,000 a year.

Edy is a former president of the International City Managers' association and holds degrees from the University of Missouri and University of California.

PRIVATE ARCHITECTS WILL NO LONGER SHARE IN STATE PROJECTS

State officials announce that no future contracts for the preparation of plans for public buildings will be let to private architectural firms whenever it is possible to have the work expeditiously performed by the State Division of Architecture.

This statement is made by Col. W. E. Garrison, state director of public works, and E. H. Vandegrift, director of finance.

"In awarding contracts for several projects to private firms early this year," said Col. Garrison, "we were carrying out the wishes expressed by President Hoover and Governor Rolph to speed up public building projects in order to relieve unemployment."

"The architectural work for these buildings could not, in our opinion have been prepared in the offices of the state division of architecture with sufficient speed to provide unemployment relief to the extent desired by the governor. Therefore, private architects were employed to put the work in readiness at the earliest possible date.

"However, in future construction, we are not going to let contracts to private firms whenever it is possible to have that work performed expeditiously by the men in the division of architecture."

Following the announcement that 40 men stood in danger of losing their positions in the Division of Architecture by August 1st because of the let-

ting of the contracts to private firms, Director of Finance Vandegrift said that every possible effort will be made to retain as many of the state employees as possible.

"However," he stated, "it would be indefensible from the standpoint of economy and good business to retain employees when there is no work for them to perform."

Among two major architectural projects listed by Vandegrift as being in the offing during the biennium are the new state hospital in Southern California and the prison for first-offenders.

The state officials said that plans for both of these would be kept in the state architectural office if it is able to handle the job, and it was generally agreed in the Capitol that the division will be in a position to take care of all future work.

Threats of a lay-off of 50 per cent of the state architectural staff grew out of the action of the senate finance committee in slashing \$140,000 from the general support budget of the division.

This reduction was recommended by Vandegrift in view of the fact the preparation of plans for twenty-five major projects is being performed by private firms, and thus, it was contended, the additional support, principally for salaries, was not needed.

The legislature passed a special appropriation bill of \$200,000 to defray the fees of the private architects.

ENGINEERS' REGISTRATION BOARD WINS POINT IN ENFORCEMENT OF LAW—CONTRACT WITH UN-LICENSED ENGINEER IS CANCELLED

A point has been won by the Board of Registration for Civil Engineers of California in connection with the case of the city of San Diego to enter into a contract with anyone except a licensed engineer for engineering services. Recently the city council of San Diego advertised for bids to make engineering studies, plans and specifications for a sewage disposal system, and awarded a contract over the protest of the state board to Frank W. Seifert, who is not a licensed engineer, for the same. Following a ruling by the state attorney general that the contract was invalid, the city council hastily rescinded it and approved a new contract in which Mr. Seifert was named as a contractor to procure plans to be prepared by a licensed engineer. While the situation was changed only in a technical way the state board considers it a victory in the enforcement of the registration law as disclosed by the following statement issued by the Board of Registration for Civil Engineers, of which Donald M. Baker of Los Angeles is chairman:

Statement by Engineers' Board
 "Last December the City of San Diego advertised for bids for furnishing engineering services to make studies, plans and investigations in connection with a system for sewerage disposal for the City of San Diego. This action aroused very great protest amongst the engineering profession and engineering societies, not alone in California but throughout the country. Protests were made by individuals and engineering organizations to the council against such a procedure and as a result no bids were received from engineers.

"However, a bid was received from one Frank W. Seifert, who was not a registered civil engineer in fact, but a civil engineer at all, but according to information received by the board,

was a plastering contractor. When the board received this information it notified the City Council by mail to the effect that while it did not have a copy of the contract entered into between the City and Seifert, in all probability Seifert's action in entering this contract was unlawful because of the fact that he was not registered. A copy of the contract disclosed that Seifert was to furnish complete plans and specifications with detailed estimates of cost of an improved sewerage collection system to serve all of the City of San Diego, and to make a thorough study of all conditions concerning the collection of sewerage, to make necessary field surveys, profiles, maps, working drawings, etc., for the most practical, economical and efficient sewerage collection system for the entire city. He was also to employ R. F. Goudey of Los Angeles to be sanitary engineer in charge of the work done under the contract as consulting engineer, and in the event that Goudey was unable so to act he was to obtain the services of a sanitary engineer of equal prominence. Mr. Goudey declined to serve, and with the consent of the council, Charles G. Frisbie of Los Angeles was substituted for Mr. Goudey. The contract provided that the sum of \$18,000 would be paid for the work.

"Upon receipt of the contract, the matter was referred to the board's attorney for an opinion as to whether under said contract Seifert could be considered as practicing civil engineering, and the attorney's opinion was in the affirmative. This opinion was further endorsed by the attorney-general, who said in his opinion, 'I am of the view that because of this undertaking of Mr. Seifert to so make this study concerning the preparation of a complete report in the matter of a new sewerage system for San Diego,

and to furnish the same to the City of San Diego, he is practicing the profession of civil engineering as contemplated by said act, and therefore is required to be licensed and certified as provided for in said act.'

"Upon receipt of these opinions the board instructed its president, Donald M. Baker, to proceed to San Diego to lay the matter before the District Attorney of San Diego county, who the person in charge of the enforcement of law. This was done by President Baker and Frank J. Barry, a attorney for the Department of Professional and Vocational Standards, April 6, 1931. The district attorney stated that a warrant for the arrest of Seifert for violating the Civil Engineers' Act would be issued April 1931.

New Contract Is Made

"On April 6, 1931, the city council passed a resolution wherein, after stating the original agreement entered into did not express the true meaning and intent of the parties thereto and that it was never the intent of the contract bind Seifert to do an engineering work contemplated by such contract, but that such engineering work necessary to be done in order to fully carry out the terms thereof should be done by a registered civil engineer according to the laws of the State of California made in that behalf; and that the true intent of said parties was that Seifert should be regarded merely as a contractor for furnishing the work, and instructed the council to execute in behalf of the city an amended contract expressing the true intent of all parties. The amended contract was made and provided that while Seifert still acted as a contractor to furnish plans, that he should not make any of the study, etc., should not perform any of the civil engineering work to be done, but that all engineering work in connection therewith should be done by registered civil engineer and that plans, specifications, etc., should be signed by a registered civil engineer.

Precedent Is Established

"The board feels that two principles in which it was primarily interested were involved in this case:

"1. The question of whether a municipality could contract with an unregistered person to perform civil engineering work, and

"2. Whether an unregistered person could contract to perform civil engineering work.

"It feels that its attitude is justified and that both principles have been admitted by contracting parties. The question of the validity of the amended contract has not been discussed with legal counsel. Whether some legal remains to be seen, but the state of Oakland has authorized an election for May 12 to decide the question of issuing and selling bonds of \$8,850,000 to finance municipal improvements. The projects to be listed on the ballot and the amount to be voted are: San Diego Public Library, \$1,300,000; main library and branch libraries \$900,000; Lake Merritt improvements, \$300,000; new exposition building, \$400,000; parks and recreation improvements \$300,000; new museum building, \$250,000; new emergency hospital, \$200,000.

OAKLAND TO VOTE \$8,850,000 BOND

Accepting a resolution offered by Mayor John W. Davis, the city council of Oakland has authorized an election for May 12 to decide the question of issuing and selling bonds of \$8,850,000 to finance municipal improvements. The projects to be listed on the ballot and the amount to be voted are: San Diego Public Library, \$1,300,000; main library and branch libraries \$900,000; Lake Merritt improvements, \$300,000; new exposition building, \$400,000; parks and recreation improvements \$300,000; new museum building, \$250,000; new emergency hospital, \$200,000.

Building News Section

APARTMENTS

Figures Being Taken.
APARTMENTS Cost, \$15,000
SAN FRANCISCO. Location Withheld
 one-story and basement frame and
 stucco apartments (6 2-room apts.)
 er and Builder—R. H. Bell, Room
 917, 582 Market St., San Francisco
 hitect—Not Given.

Bids Being Taken.
APARTMENTS Cost, \$200,000
SAN FRANCISCO. SW Grove and
 Fillmore Streets.
 one-story and basement steel frame
 and concrete apartments (40 2, 3
 and 4-room apts.)
 er and Builder—Richman & Epp,
 4745 Geary St., San Francisco.
 hitect—H. C. Baumann, 251 Kear-
 ny St., San Francisco.

paring Working Drawings.
APARTMENTS Cost, \$50,000
SAN FRANCISCO. Twenty-fifth Ave.
 N Fulton Street.
 one-story and basement frame and
 stucco apartments (12 4-rm apts.)
 er and Builder—O. M. Oyen, 50
 Castenada St., San Francisco.
 hitect—H. C. Baumann, 251 Kear-
 ny St., San Francisco.

paring Working Drawings.
APARTMENTS Cost, \$150,000
SAN FRANCISCO. Walnut and Clay
 Streets.
 one-story and basement Class C re-
 inforced concrete and steel frame
 apartments (30 2, 3 and 4-room
 apts.)
 er & Builder—I. Epp, 4745 Geary
 St., San Francisco.
 hitect—H. C. Baumann, 251 Kear-
 ny St., San Francisco.

paring Preliminary Plans.
APARTMENTS Cost, \$300,000
CLAND, Alameda Co., Cal. Loca-
 tion withheld.
 one-story and basement steel frame
 and concrete apartments.
 er and Builder—Harry A. Schus-
 ter, 2424 Curtis St., Berkeley.
 hitect—Willis Lowe, 354 Hobart St.,
 Oakland.

tract Awarded.
APARTMENTS Cost, \$10,000
RTH SACRAMENTO, Sacramento
Co., Cal. Thirteenth Avenue and
 Auburn Blvd.

od frame automobile parlments (10
 rooms and showers; main building
 of bedrooms and bath, kitchen and
 living room).

er—J. L. Nealon, Sacramento.
 hitect—Fred S. Harrison, 1005 10th
 St., Sacramento.

tractor—Wm. A. Theilbahr, North
 Sacramento.
 alifornia stucco exterior finish,
 studs, interior partitions, com-
 munion roof and floors, gas heaters,
 ward plumbing goods, plaster in-
 or finish. Main building in front
 automobile apartment built in the
 pe of a court.

er Taking Bids.
APARTMENTS Cost, \$—
SAN FRANCISCO. SW Gough Street
 and Broadway.
 one-story and basement steel frame
 and concrete apartment building.
 er—Mrs. Jole Xenkios, 135 Darien
 Way.
 hitect—H. C. Baumann, 251 Kear-
 ny Street.

BONDS

MANTECA, San Joaquin Co., Cal.—
 Election will be held May 6 in the
 Veritas Grammar School District to
 vote bonds of \$4,500 to finance erec-
 tion of a new school. Trustees of the
 district are: Guss G. Schmied (clerk)
 W. P. Maurer and A. C. Perkins.

SEBASTOPOLE, Sonoma Co., Cal.—
 Analy Union High School District de-
 feats proposal to issue bonds of \$275,-
 000 to finance erection of a two-story
 brick high school, preliminary plans
 for which were prepared by Archi-
 tects Davis-Pearce Co., Grant and
 Weber Sts., Stockton. Incomplete re-
 turns showed 901 in favor and 778
 votes against the proposal, a two-
 thirds majority being required to car-
 ry the proposition.

OAKLAND, Cal.—City council sets
 May 12 as date to vote bonds of \$8,-
 \$50,000 of which \$900,000 is to finance
 erection of a new main library and
 several branch library buildings; new
 municipal exposition building, \$400,-
 000; new museum building, \$250,000
 and new emergency hospital, \$200,000.

ROSS, Marin Co., Cal.—Election will
 be held May 8 in Ross School District
 to vote bonds of \$40,000 to finance
 school improvements. Trustees of the
 district are Gregory Jones, Ruth D.
 Eroy and Clarence S. Burtchaeff, A. A.
 Cantin, 544 Market St., San Francisco
 is the architect.

VISALIA, Tulare Co., Cal.—Until
 May 4, bids will be received by county
 supervisors for purchase of the \$3,000
 bond issue of the Stone Corral School
 District; proceeds of the sale to fi-
 nance school improvements.

SATICOGY, Ventura Co., Calif.—Sati-
 cogy school district, Ventura county,
 will call a bond election within a few
 weeks to provide funds for additional
 school facilities. Proceeds from the
 issue, which will be approximately 270,-
 000, would be used for the purchase of
 sites and erection of new buildings for
 Mexican children and for the addition
 of two rooms and installation of a
 heating system at the Upper School.
 The district defeated a \$115,000 bond
 issue at a recent election.

CARMEL, Monterey Co., Cal.—Until
 April 23 bids will be received by Coun-
 ty Supervisors at Salinas for the pur-
 chase of the \$75,000 bond issue of the
 Sunset School District, proceeds of
 the sale to finance erection of a new
 school, plans for which are being pre-
 pared by Swartz and Ryland, archi-
 tects, Spazier Bldg., Monterey.

CLARKSBURG, Yolo Co., Cal.—
 Election held in Clarksburg Grammar
 School District to vote bonds of \$30,-
 000 to finance additions to the gram-
 mar school failed to carry.

BURNS VALLEY, Lake Co., Cal.—
 Burns Valley School District defeats
 proposal to issue bonds of \$30,000 to
 finance erection of a one-story frame
 and stucco school. The vote was 63
 in favor and 198 against the issue.
 Preliminary plans for the structure
 were prepared by William Lowe, ar-
 chitect, 354 Hobart Bldg., Oakland.

SANTA BARBARA, Cal.—In a sup-
 plemental order the Railroad Com-
 mission has authorized Santa Barbara
 Telephone Company to issue the \$1,-
 180,000 of bonds recently authorized
 by the commission, as first mortgage
 bonds instead of general and refunding
 mortgage bonds, as previously
 designated. This action was re-
 quested by the company in view of
 the fact that the existing first mor-
 gage bonds will be entirely redeemed
 before the new issue is sold.

SPRINGFIELD, Monterey Co., Cal.
 Election will be held May 14 in the
 Springfield School District to vote on
 bonds of \$3,000 to finance erection of
 a new school, Trustees of the district
 are: Mrs. F. Yekerson, J. H. Campbell
 and J. H. Struve.

OROVILLE, Butte Co., Cal.—Due to
 congested conditions in the present
 high school, a bond issue is contem-
 plated to finance erection of a com-
 plete new plant, replacing the present
 structure which was erected 14 years
 ago. The proposal of a bond issue is
 advocated by J. C. Nisbet, principal of
 the high school.

BRENTWOOD, Contra Costa Co.,
Cal.—Until May 4 bids will be received
 by county supervisors for the purchase
 of the \$15,000 bond issue of the Brent-
 wood-Deer Valley Union High School
 District; proceeds of the sale to fi-
 nance erection of an addition to the
 present structure, plans for which
 were originally prepared by Architect
 Jas. T. Narbett, 474 31st St., Rich-
 mond.

CHURCHES

Preparing Plans.
CHURCH Cost, \$40,000
CHICO, Butte Co., Cal.
 Two-story brick church building.
 Owner — Bidwell Memorial Church,
 (Rev. R. C. LePorte, Pastor).
 Architect—Chas. F. Dean, California
 State Life Bldg., Sacramento.
 The structure will be erected on the
 site of the old Presbyterian Church
 which was recently destroyed by fire.
 A portion of the old church building
 will probably be used in the erection
 of the new structure.

**SKILSAW Portable Electric Hand
 Saws (4 models).**

**SKILSAW Portable Electric Sander
 SKILSAW Radial Arm Attach-
 ments.**

**SYNTRON Portable Electric Ham-
 mers (4 models, motor-
 less).**

**MALL Flexible Shaft Machines (50
 models).**

**Electric Drills, Grinders, Buffers,
 Routers, Lock Mortisers.**

PETER H. NELSON
 Labor Saving Portable Electric
 Tools.

1248 Mission St. Underhill
 San Francisco 7662
SALES . SERVICE . RENTALS

Plans Being Figured.
CHURCH Cost, \$50,000
 LOS ANGELES, Cal. No. 204 Boyle Avenue.

One-story frame and stucco church with steel roof trusses (124x60 ft.) (to seat 1000).

Owner—College of Medical Evangelists of 7th Day Adventists.
 Architect—Clinton Nourse, Western Life Bldg., Los Angeles.

Preparing Plans
SUNDAY SCHOOL Cost, \$135,000
 HONOLULU, T. H.
 Two-story concrete Memorial Sunday School (30 rooms).
 Owner—St. Andrews Parish
 Architect—C. W. Dickey, Honolulu, T. H.

Stucco exterior finish, interior partitions to be of concrete blocks, slate roofing, concrete floors, standard plumbing goods, Oregon pine and oak interior finish.

Working Drawings Being Prepared.
SUNDAY SCHOOL Approx. \$75,000
 MODESTO, Stanislaus Co., Calif.
 One- and two-story brick church and Sunday School building.
 Owner—1st Baptist Church, Modesto.
 Architect—G. N. Hilburn, Elks Bldg., Modesto.

Plans will be ready for bids in about thirty days.

FACTORIES AND WAREHOUSES

To Be Done By Day's Work.
BUILDING Cost, \$12,000
 SAN FRANCISCO, W Beale Street N Mission St.

One-story and basement class C industrial building.

Owner—F. H. Ohe, % architect.
 Architect—J. E. Krafft & Sons, Phelan Bldg.

Contract Awarded.
SHED, ETC. Cont. price, \$101,450
 SAN FRANCISCO, Pier No. 15.
 Shed and bulkhead building (150x800 ft.; steel frame construction with concrete walls).

Owner—State Board of Harbor Commissioners.
 Engineer—Frank White, Ferry Bldg.
 Contractor—E. T. Lesure, 87 Ross Circle, Oakland.

Contract Awarded.
FACTORY Cost approx. \$50,000
 EMERYVILLE, Alameda Co., Cal.
 One-story steel frame and brick factory.

Owner—Paraffine Companies, Inc., 475 Brannan St., San Francisco.
 Engineer—Leland Rosener, 232 Sansome St., San Francisco.
 Contractor—MacDonald & Kahn, Financial Center Bldg., San Francisco.

Plans Being Figured—Bids Close May 14th.
STEEL DOORS Cost, \$—
 SAN FRANCISCO. Shed on Pier 15.
 Steel rolling doors for shed.
 Owner—State of California (Harbor Commission).
 Engineer—Frank White, Ferry Bldg.

Contract Awarded
BRICK BLDG. Cost, \$—
 REMODELING Seven story and basement brick building for liquid sugar plant.

STOCKTON, San Joaquin Co., Calif., West Weber Ave.
 Owner—Liquid Sugar Co., 637 Battery St., San Francisco.
 Architect—Eng. Dept. of owner.
 Contractor—J. A. Allen, 525 E. Market st., Stockton.
 It is expected to start construction within one week.

BOULDER CITY, Nevada—W. W. Dickerson, Lehi, Utah, has been awarded contract at \$12,655 by the U. S. Bureau of Reclamation for the erection of six 4-room dwellings at Boulder City. Lewis J. Bowers, 2250 S. Main St., Salt Lake City, has been awarded contract at \$10,263 for the erection of six 3-room dwellings. They will be of brick hollow wall construction with 4-inch air space, stucco exteriors, plastered interiors and clay tile roofing. The government will furnish most of the materials.

Contract Awarded.
CREAMERY Cont. price, \$115,550
 SAN FRANCISCO, 18th and York Sts. (137x200-ft.)

Two-story and basement class B concrete creamery (foundation laid for two additional stories to be added later).

Owner—Challenge Creamery and Butter Assn., 307 Montgomery St.
 Architect—Dodge Riedy, Pacific Bldg.
 Contractor—Mason Bros., 475 6th St., San Francisco.

Construction will be started within one week. Complete list of bids published Nov. 17, 1930.

Contract Awarded.
SUPERSTRUCTURE Cont. Price, \$25,789
 OAKLAND, Alameda Co., Cal. Foot of Webster Street.

Superstructure for Inland Waterways Terminal (exclusive of structural steel).

Owner—City of Oakland (Port Commission), 424 Oakland Bank Bldg., Oakland.

Plans by Eng. Dept. of Owner.
 Contractor—R. W. Littlefield, 337 17th St., Oakland.

Will be sheet-iron construction with 10-year guaranteed roof; 97x280 feet, with 20-ft. side hall clearance.

BOULDER CITY, Nevada—Pat Cline, Inc., Las Vegas, has started work on the erection of a warehouse at Boulder City for the U. S. Bureau of Reclamation. It will cover an area of 50x120 feet and will have corrugated iron exterior.

Bids Wanted—To Be Opened April 27, 4:30 P. M.
WAREHOUSE Cost, \$—
 OAKLAND, Alameda Co., Cal. W. 14th Street Pier.

Structural steel and sprinkler system for one-story steel frame warehouse (518x100 ft., Warehouse AA)
 Owner—City of Oakland (Port Commission), 424 Oakland Bank Bldg., Oakland.

Lessee—Rosenberg Eros, Third and Bancroft, Oakland.

Plans by Eng. Dept. of Owner.
 Steel frame and wooden girts and studs, galvanized iron covering, concrete floor on earth flooring.

Construction To Start Immediately.
PLANT Cost, \$75,000
 SALINAS, Monterey Co., Cal.

One-story brick vitamin manufacturing plant.
 Owner—Lettisine Vitamin Co., Inc., Watsonville.

Plans by Mr. Prossitt, Eng. Department, Chas. Dickens and Staff, 4 Ely Route Arcade, Oakland.
 Mgr. of Const.—D. K. Prossitt, % Chas. Dickens, Oakland.

Segregated Bids Being Taken By Owners.
BUILDINGS Cost 1st unit, \$75,000
 Total Cost, \$400,000

CONCORD, Contra Costa Co., Calif. Immediately adjoining the city limits and extending approximately 7 miles).

Ground approx. 20 poultry buildings, administration buildings, offices, warehouses, etc.)
 Owner—Wickham-Havens, Inc., 1510

Franklin St., Oakland.
 Plans by Eng. Dept. of Owner.
 Sylvester, engineer), 1510 Franklin St., Oakland.
 Construction will be carried over a period of four years. Corrugated iron roofs and backs, wood frame, concrete base and runs. Poultry buildings 11 ft. 18x50 feet.

Contract Awarded.
FREIGHT SHED Cost, \$100,000
 TURLOCK, Stanislaus Co., Cal.
 One-story frame freight shed.

Owner—Tidewater Southern R. R., Mills Bldg., San Francisco.
 Plans by Eng. Dept. of Owner (K. Smitten)—Mills Bldg., San Francisco.

Contractor—Logan Kay, 580 Vine St., San Jose.

SAN PEDRO, Los Angeles Co., Cal. —Western True Vapor Phase Co., 2800 N. Gaffey St., San Pedro, will resume operations about May 1 on construction of its cracking plant at 2800 N. Gaffey St., San Pedro. The buildings will be completed by the owner's construction forces. Work was started in January, 1930, by C. F. Braun Co.

GARAGES AND SERVICE STATIONS

Plans Being Completed.
SERVICE STATION Cost, \$10,000
 SAN FRANCISCO, Fulton Street at Arguello Blvd.

Super service station,
 Owner—General Petroleum Co., 14 Broadway, Oakland.

Plans by Eng. Dept. of Owner.
 Bids will be taken in about 10 weeks.

Sub-Contracts Awarded.
SERVICE STATION Cost, \$20,000
 SAN FRANCISCO, SW Pacific Ave. and Trenton Place.

Steel frame and concrete super service station and garage.

Owner—S & G. Gump Realty Co., 6 Post St., San Francisco

Plans by
 Contractor—Barrett & Hilt, 913 Harrison St., San Francisco.

Plumbing—Anderson & Rowe, 45 Bcher St., San Francisco.

Electric Work—Weidenthal Gosholtz Co., 353 10th St., San Francisco

Sub-Contracts Awarded.
AUTO SALES BLDG. Cost, \$25,000
 SAN FRANCISCO, SE Geary Street and Twenty-first Avenue.

Two-story class C auto sales building.
 Owner—Twenty-first Avenue Baptist Church.

Architect—F. W. Quandt, 2500 Filbb. Street.

Contractor—Joel Johnson, 666 Mission Street.

Concrete Work and Forms—DeLuc & Son, 2255 Jones St.

Reinforcing Steel—Pacific Coast Steel Co., 215 Market St.

Roofing Trusses—Summerbell Truss Co., 854 Hobart St., Oakland.

Ornamental Iron—B. Kloer & C. 477 Clementina St.

Wiring—Central Electric Co., 179 Mission Street.

Plumbing and Gas Fitting—Geo. Zaitz, 1211 Harrison St.

Contract Awarded.
SERVICE STATION Cost, \$25,000
 SAN FRANCISCO, Van Ness Avenue and Howard Street.

One-story and mezzanine floor brick and steel super service station.
 Owner—Withheld.

Architect—S. Helman, 605 Market St.
 Contractor—Geo. Wagner, 181 Son Park.

GOVERNMENT WORK AND SUPPLIES

PORT SCOTT, Calif.—Constructing Quartermaster, Fort Mason, will ask bids shortly for repairs to Torpedo dock at Fort Scott. Funds are available.

SAN FRANCISCO.—Constructing Quartermaster, Fort Mason, will ask bids shortly for reconstructing all roads in the National Cemetery, Fort Mason. Asphaltic concrete roads with concrete curbs. Funds are available.

FORT MILEY, Calif.—Constructing Quartermaster, Fort Mason, will ask bids shortly for gas boiler for hot water and gas storage tank for Officers' quarters No. 8 at Fort Miley. Funds are available.

COCO SOLO, C. Z.—Bids will be asked shortly by the Bureau of Yards & Docks, Navy Dept., Washington, D. C. under Spec. No. 6222, for shop building at the naval air station, Coco Solo, C. Z. The work includes timbering, concrete construction, structural steel and iron work, steel sash, doors and doors, asbestos covered metal siding, galvanized sheet steel, insulated steel roof deck, built-up roofing, glazing and painting. Deposit of \$10 required for plans, obtainable from above.

SAN FRANCISCO.—Plant Rubber & bestos Co., 537 Brannan St., award contract by Constructing Quartermaster, Fort Mason, to furnish and install magnesium sectional pipe covering heating plant at Fort McDowell. 5-in. pipe covering, \$.235 (b) 3-in. covering \$.225 (c) labor for installation 0.

SACRAMENTO, Cal.—Kohler Co., 1 2nd St., San Francisco, at \$427.50 submitted low bid to U. S. Engineer office, Sacramento, under Order No. 12, Sac. 101, to furnish and deliver, (b) Sacramento, one automatic electric generator plant, gasoline driven, 10 watts capacity at 110 volts direct current. Specifications published in issue of April 13. Complete list of bids sent under advisement, follow: Kohler Co. \$427.90 L. R. Bacon Co. 516.60 Irbanks-Morse Co. 535.50

PUGET SOUND, Wash.—Bids will be asked shortly by the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6182, for 250-ton stationary hammerhead crane, electrically operated; 10-ton traveling tower crane having 50-hp electric power, and 10-ton traveling gantry crane with traveling hoisting jib, having gasoline electric motor, at the naval yard, Puget Sound; posit \$10 required for plans, obtainable from above office.

HAWTHORNE, Nev.—Public Works Dept., 12th Naval District, 100 Harrison St., San Francisco, will ask bids shortly for asphaltic road oiling at the Ammunition Depot at Hawthorne. The project involves treating 400 sq. yds. of gravel road with asphaltic fuel oil. Work is provided for under Specification No. 6315.

SAN FRANCISCO.—Public Works Dept., 12th Naval District, 100 Harrison St., will ask bids in the immediate future for dredging at Goat Island, San Francisco Bay.

WASHINGTON, D. C.—Bids are being invited by Bureau of Supplies & Accounts, Navy Dept., Washington, D. C., to furnish and deliver miscellaneous supplies and equipment at noted in the following schedules, further information being available from the

Navy Purchasing Officer, 100 Harrison St., San Francisco.

Bids Close May 5
Western yards, oil and grease cups; sch. 5543.

Western yards, wire, brass, copper, bronze and steel etc.; sch. 5547.

Western yards, cutting oil, rust preventive compound, castor oil, mineral oil, lard oil, etc.; sch. 5542.

Western yards, cocks, faucets and valves; sch. 5544.

Western yards, bricks and earth, diatomaceous; sch. 5546.

San Francisco, 600 ft. black welded steel pipe; sch. 5554.

San Diego, 300 lbs. aluminum tubing; sch. 5555.

Puget Sound, 1 electric-driven vacuum cleaner; sch. 5549.

San Diego, 4,500 sq. yds. linoleum; sch. 5566.

Puget Sound, 5,000 ft. lighting cable, 3,200 ft. interior communication cable, 1,200 ft. armored cable; Lakehurst, 1,000 ft. lighting and power cable; sch. 5574.

Seattle, 1 motor-driven air compressor; sch. 5559.

Puget Sound, lignum-vitae and mahogany; sch. 5575.

Bids Open May 12
Western yards, copper, sheet and brass bar; sch. 5505.

Bids Open May 15
West coast, motor and domestic aviation gasoline; sch. 5560.

COLEMAN, Tex.—Until 3 P. M., May 12, bids will be received by the Treasury Department, office of the Supervising Architect, Washington, D. C., for the construction of the U. S. post office at Coleman, Tex. Plans may be obtained from the architect upon deposit of \$15, checks to be made payable to the order of the Treasurer of the United States. Jas. A. Wetmore, acting supervising architect.

Plans Being Figured—Bids Close May 4, 10 A. M.

SAN LUIS OBISPO, San Luis Obispo Co., Cal. National Guard Training Camp.

9 Kitchens and Mess Halls
4 Lavatory Buildings
250 Tent Floors

Extension of Sewer, Water and Electric Systems

Owner—United States Government.

Plans by U. S. Property and Disbursing Officer for Calif., 123 State Capitol Bldg., Sacramento.

Bids are being received by the U. S. Property and Disbursing Officer at Sacramento from whom plans may be obtained.

Theo. Malno, San Luis Obispo, will figure the plans.

OAHU, T. H.—Following is a partial list of prospective bidders for development of the Naval Ammunition Plant at Oahu, T. H., bids for which will be opened by the Bureau of Yards and Docks, Navy Department, Washington, D. C., June 17, under Specification No. 6101. The project covers the construction of 131 buildings, approximately 1 1/2 miles of railroads, 14 1/2 miles of paved roads and electrical telephone and water supply systems. The following will enter into the work: Concrete construction, steel windows, metal doors, marble and tile work, composition floors, wood framing and finish, structural steel, asbestos shingle steel, insulated and light-insulation and plumbing and electrical work.

Siems-Helmets, Inc., 206 Sansome St., San Francisco.

Gladding, McBean & Co., 660 Market St., San Francisco.

Electric Pipe & Supply Co., Los Angeles.

J. A. Fazio, 402 Castro St., Oakland.

Independent Iron Works, 1820 Chase St., Oakland.

Johns-Manville Co., San Francisco.

Lewis Constr. Co., Westwood, Calif.
Theo. H. Davies Co., Honolulu, T. H.
Bannister-Field Co., Los Angeles.
Safeway Electric Co., Culver City, Calif.

Los Angeles Chamber of Commerce, Los Angeles.

Those reported as prospective bidders on this project, in previous issues, are:

MacDonald & Kahn, Financial Center Bldg., San Francisco.

Minneapolis Steel & Machinery Co., Chapman Bldg., Los Angeles.

Newbery Electric Co., 726 S Olive St., Los Angeles.

A. W. Quist Co., Exchange Bldg., Seattle.

Orndorff Const. Co., 437 S Hill St., Los Angeles.

Guy F. Atkinson, Russ Bldg., San Francisco.

Karl S. Koller, Crockett, Calif.
Thos. Haverly Co., 316 E 8th St., Los Angeles.

Fire Protection Products Co., 1101 16th St., San Francisco.

Campbell Bldg. Co., Salt Lake City.
Grace Bros. Co., 6630 McKinley St., Los Angeles.

E. T. Thurston, 57 Post St., San Francisco.

David H. Ryan, San Diego.
Kenneth Colburn, Pasadena.

Plans for this work are obtainable from the Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, and are on file in the office of naval districts at Seattle and New York City.

SAN FRANCISCO—Until April 29, 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason, for furnishing and laying magnesite floors in Field Mess Building No. 29 at the Letterman General Hospital. Specifications obtainable from above.

Plans Being Figured—Bids Close Apr. 29, 11 A. M.

ELEVATOR SHAFT Cost, \$—
MARE ISLAND, Calif.

Furnish and install elevator shaft in Mare Island Navy Yard Hospital.

Owner—U. S. Government.

Plans by Bureau of Yards and Docks, Navy Dept., Washington, D. C.

Bids are being received by the Public Works Officer, Mare Island Navy Yard.

Contract for this work was previously awarded to Sullivan & Sullivan, 3227 34th Ave., Oakland, at \$3,699 for work complete and adding \$379 for substitution of hollow metal doors for metal covered doors. The contract was awarded to this firm in error, the lowest regular bidder being Karl Koller of Crockett, at \$8,980 with \$50 addition for substitution. A complete list of bids on this work was published in issue of March 9. The shaft and lobby will be built on the exterior of the building extending from the ground floor to the roof with the openings at five floors. The work involves excavation, concrete work, steel framing, hollow tile, stucco, wood roof framing, tile roofing, electric work and heating. Plans obtainable from Public Works Officer at Mare Island on deposit of \$10, returnable.

WASHINGTON, D. C.—Bids will be called at once by the Bureau of Yards and Docks for furnishing approximately 3,500,000 lbs. of fuel oil for the use of the naval forces on the Pacific Coast. Deliveries are to be made through the fiscal year starting July 1, 1931. Specifications have been changed this year from "C" grade to "E" grade on account of the general low price of oil. Bids for supplying the naval requirements at Cavite, Philippine Islands and at Honolulu will be asked later.

SAN FRANCISCO—Until May 6th, under Circular No. 5, bids will be received by Signal Officer, headquarters

9th Corps Area, Presidio, for installation of submarine cable between Lincoln Park, San Francisco and Baker Beach, Ft. Winfield Scott. Specifications obtainable from above.

pile foundations and eleven 42-ft. April 17, 1931

Bids Opened
OFFICERS' QUARTERS Cost, \$90,000
SAN FRANCISCO, Presidio.
Fifteen double sets of non-commissioned officers' quarters (each 2-story and basement, brick construction).

Owner—U. S. Government.
Plans by Quartermaster General's Office, Washington, D. C.

Following is a complete list of bids received:

Prop. 1. General work, except plumbing, heating and electric work.

Prop. 2, 2-B, 2-C. Add for additional sets.

Prop. 3. Deduct if Type A or B front vestibule is omitted.

Prop. 6. Plumbing complete for officers' quarters.

Prop. 7. Add for plumbing if additional quarters are constructed.

Prop. 8. Heating in officers' quarters based on gas fired boilers.

Prop. 9. Heating in officers' quarters based on oil-fired boilers.

Prop. 10. Heating in officers' quarters based on combination oil and gas fired boilers.

Prop. 11. Add for heating in each double set of quarters (additional sets) based on gas fired boilers.

Prop. 12. Add for heating in each additional set of quarters, based on oil-fired boilers.

Prop. 13. Add for heating in each additional set of quarters, based on combination gas and oil-fired boilers.

Prop. 14. Electric work complete.

Prop. 15. Add for electrical work in each additional set of quarters.

Bids as follows:

Frank J. Reilly, 6250 Fulton St. (1) \$137,861; (2-A) \$9600; (2-B) \$9600; (2-C) \$9600; (3) \$300.

H. L. Petersen (1) \$142,495; (2-A) \$9686; (2-B) \$9686; (2-C) \$9686; (3) \$395.

William Spivock (1) \$144,541; (2-A) \$9579; (2-B) \$9451; (2-C) \$9649; (3) \$383.

Sullivan & Sullivan, Oakland (1) \$145,995; (2-A) \$9995; (2-B) \$9998; (2-C) \$9995; (3) \$175.

A. Nelson (1) \$146,250; (2-A) \$9850; (2-B) \$9850; (2-C) \$9750; (3) \$285.

Jacks & Irvine (1) \$146,036; (2-A) \$9736; (2-B) \$9736; (2-C) \$9736; (3) \$37.

J. S. Hannah (1) \$147,997; (2-A) \$10,000; (2-B) \$10,000; (2-C) \$10,000; (3) \$259.

F. C. Amoroso & Son (1) \$149,000; (2-A) \$10,500; (2-B) \$10,500; (2-C) \$10,500; (3) \$300.

J. Harold Johnson (1) \$149,597; (2-A) \$10,029; (2-B) \$10,029; (2-C) \$9836; (3) \$75.

Mahony Bros (1) \$150,470; (2-A) \$10,631; (2-B) \$10,631; (2-C) \$10,631; (3) \$460.

Vogt & Davidson (1) \$153,360; (2-A) \$10,116; (2-B) \$10,215; (2-C) \$10,150; (3) \$409.

Schuler & MacDonald, (1) \$153,935; (2-A) \$10,374; (2-B) \$10,347; (2-C) \$10,251; (3) \$300.

Barrett & Hilp (1) \$153,758; (2-A) \$10,346; (2-B) \$10,346; (2-C) \$10,167; (3) \$417.

George Swanstrom (1) \$151,275; (2-A) \$10,175; (2-B) \$10,175; (2-C) \$10,125; (3) \$387.

Einar Petersen (1) \$154,860; (2-A) \$10,760; (2-B) \$10,490; (2-C) \$10,760; (3) \$200.

MacDonald & Kahn (1) \$155,541; (2-A) \$10,500; (2-B) \$10,590; (2-C) \$10,346; (3) \$325.

William Martin (1) \$157,352; (2-A)

\$10,702; (2-B) \$10,702; (2-C) \$10,558; (3) \$350.

John Bjorkman (1) \$158,800; (2-A) \$10,553; (2-B) \$10,553; (2-C) \$10,553; (3) \$300.

N. H. Sjoberg (1) \$161,784; (2-A) \$10,893; (2-B) \$10,893; (2-C) \$10,813; (3) \$333.

E. T. Leiter & Son (1) \$162,000; (2-A) \$10,967; (2-B) \$10,967; (2-C) \$10,987; (3) \$300.

Monson & Rohlfman (1) \$164,750; (2-A) \$10,650; (2-B) \$10,650; (2-C) \$10,650; (3) \$437.

A. R. Larson (1) \$165,225; (2-A) \$11,015; (2-B) \$11,015; (2-C) \$11,015; (3) \$418.

R. C. Stickle (1) \$166,569; (2-A) \$11,135; (2-B) \$11,135; (2-C) \$11,060; (3) \$420.

F. L. Hansen (1) \$166,600; (2-A) \$11,300; (2-B) \$11,300; (2-C) \$11,200; (3) \$275.

Meyer Bros. (1) \$166,990; (2-A) \$11,185; (2-B) \$11,185; (2-C) \$11,111; (3) \$383.

Plumbing

Frank J. Klimm, 465 Ellis St., (6) \$3,296; (7) \$850.

Higgins & Krause (6) \$14,800; (7) \$1020 J. A. Fazio (6) \$14,985; (7) \$988.

O'Mara & Stewart (6) \$15,500; (7) \$900 James Pinkerton (6) \$15,275; (7) \$1070 Mechanical Construction Co. (6) \$15,960; (7) \$1020.

Skelly & Kohler (6) \$16,200; (7) \$1080. Thomas R. Smith (6) \$16,300; (7) \$837. C. Petersen Co. (6) \$16,500; (7) \$1100.

Herman Lawson (6) \$16,455; (7) \$1175 Carl T. Doell (6) \$17,225; (7) \$1488.

A. Ramazzotti (6) \$17,350; (7) \$1075 F. W. Snook (6) \$17,675; (7) \$1183.

Scott Co. (6) \$18,629; (7) \$1295. J. J. McLeod (6) \$19,230; (7) \$1282.

Frank Davidson (6) \$21,675; (7) \$1425.

Heating

Atlas Heating & Ventilating Co., 557 4th St., (8) \$15,863; (11) \$1057.

D. F. Hein (8) \$15,932; (11) \$1065.

T. C. Douglass (8) \$17,000; (9) \$26,000; (10) \$28,500; (11) \$1334; (12) \$1758 (13) \$1900.

Herman Lawson (8) \$17,050; (9) \$27,415 (10) \$29,425; (11) \$1170; (12) \$1880 (13) \$1830.

George Rich (8) \$17,320; (9) \$25,625; (10) \$27,693; (11) \$11,547; (12) \$1708 (13) \$1846.

Higgins and Krause (8) \$17,379; (9) \$26,409; (10) \$28,476; (11) \$1158; (12) \$1624; (13) \$1762.

A. Ramazzotti (8) \$17,600; (9) \$36,500; (10) \$28,600; (11) \$1180; (12) \$1775 (13) \$1910.

F. J. Klimm (8) \$17,636; (9) \$26,680; (10) \$28,667; (11) \$11,075; (12) \$17102 (13) \$1770.

A. G. Atwood (8) \$17,716; (9) \$26,051; (10) \$30,692; (11) \$1186; (12) \$1759 (13) \$648.

Carl T. Doell (8) \$17,840; (9) \$28,443; (10) \$30,546; (11) \$1188; (12) \$1781; (13) \$1947.

George C. Bell (8) \$17,864; (9) \$26,759; (10) \$34,759; (11) \$1250; (12) \$1680; (13) \$1740.

Scott Co. (8) \$17,577; (9) \$26,920; (10) \$28,061; (11) \$1172; (12) \$1686; (13) \$2136.

George Wara (8) \$18,511; (9) \$26,620; (10) \$29,854; (11) \$1234; (12) \$1841; (13) \$1990.

O'Mara & Stewart, (8) \$18,654; (9) \$26,458; (11) \$1250; (12) \$1660.

James Pinkerton (8) \$18,800; (9) \$27,954; (10) \$31,500; (11) \$1257; (12) \$1765; (13) \$2376.

J. A. Nelson (8) \$19,900; (9) \$30,714; (10) \$32,791; (11) \$1348; (12) \$2217 (13) \$2355.

Vincent McMullin (8) \$20,695; (9) \$26,226; (10) \$30,750; (11) \$1338; (12) \$2137; (13) \$150.

Mechanical Contracting Co. (8) \$20,640; (11) \$1300.

C. Petersen (8) \$21,400; (9) \$28,735; (10) \$35,755; (11) \$1426; (12) \$1878; (13) \$2200.

F. W. Snook (8) \$22,410; (9) \$30,284;

(10) \$32,164; (11) \$1494; (12) \$20 (13) \$2145.

Skelly & Kohler (8) \$22,050; (9) \$2 (10) \$23,175; (11) \$1470; (12) \$1955; (13) \$2212.

Electrical

George Armstrong, 2990 Howard; (14) \$4119; (15) \$350.

Collins Electric Co. (14) \$4481; (15) \$275.

Weldental Gosliner Elec. Works (14) \$4795; (15) \$319.

Aetna Electric Co. (14) \$5290; (15) \$353.

F. D. Wilson (14) \$5416 (15) \$362. Johnson Electric Co. (14) \$5580; (15) \$275.

Electric Service Co. (14) \$5975; (15) \$440.

H. S. Tittle Co. (14) \$6450; (15) \$39 F. J. Klimm (14) \$6835; (15) \$466. NePage-McKenney (14) \$6997; (15) \$474.

Central Electric Co. (14) \$7425; (15) \$485.

Bids held under advisement. Unit prices available from this office by those interested.

(4338) 1st report Jan. 5; 6th Mar. 27, 1931.

Plans Being Figured—Bids Close May 4, 2 P. M.

STORAGE BLDGS., ETC. Cost, \$— OAHU, T. H. Allamano Crater, Molokai Island of Oahu.

Eight commercial storage magazines including electric lighting system Ammunition Workshop Shop, including electric lighting & power system Guardhouse, including electric lighting system.

Construct roadway.

Owner—United States Government. Architect—U. S. Engineer Office, Honolulu, T. H.

This project is located on the Kamehameha Highway approximately 70 miles northwest of the Federal Building at Honolulu. Plans for this work are obtainable from the U. S. Engineer Office at Honolulu and from the U. S. Engineer Office, 415 Customhouse San Francisco.

SAN FRANCISCO, Cal.—Constructing Quartermaster, Fort Mason, will ask bids shortly for repairs to wire fencing at Fort Funston.

SAN FRANCISCO—Frank J. Klimm 456 Ellis Street, at \$1,297 submit lowest bid to Constructing Quartermaster, Fort Mason, for alterations to hot water heating system in the Commanding General's Quarters No. 1 a Fort Mason. Only other bids submitted by A. G. Atwood, at \$1,680 Bids held under advisement.

SEATTLE, Wash.—Following is a prospect list of prospective bidders for exact marine Hospital at Seattle, bids for which will be opened May 18 by the Treasury Dept., Washington, D. C., (details of construction previously published).

Henry Bover & Son Co., Washington, Tacoma, Wash.

Therlaunt Contracting Co., 534 East Johnson St., Philadelphia.

Campbell Engineering Co., Hansen & Rowland, Washington Bldg. Tacoma Wash.

Devalut-Dietrick, Inc., Massillon Rd. Canton, Ohio.

N. P. Severin Co., 222 W Adams St. Chicago.

Western Const. Co., Alaska Bldg. Seattle.

Fleisher Engineering & Construction Co., Wrigley Bldg., Chicago.

W. R. McNeal, Inc., 292 Kulien Bldg. Seattle.

J. E. Bonnell & Son, Hansen and Rowland, Washington Bldg., Tacoma, Wash.

Wm. Wills, Alaska Bldg., Seattle.

CLAND, Calif.—In addition to previously reported, following is list of prospective bidders to erect and Postoffice, bids for which will be opened by the Treasury Department, Washington, D. C., May 5:

General Contract
E. Campbell, 108 W 6th St., Los Angeles.
Anton Const. Co., 923 Folsom St., San Francisco.

L. McLaughlin Co., 251 Kearny St., San Francisco.
George W. Littlefield, 337 17th St., Oakland.

W. Heyer, Jr., Mills Bldg., San Francisco.
Donald & Kahn Co., Ltd., Financial Center Bldg., San Francisco.
L. Wood Co., 693 Mission Street, San Francisco.

Elevators

Autic Elevator Co., Erie Avenue and St., Philadelphia.
B. See Elevator Co., Inc., Washington.
Singlehouse Electric Elevator Co., and Walnut Sts., Philadelphia.
J. Matson, General Electric Co., Connecticut, N. Y.
Lighthouse Elevator & Machine Co., Washington.
Elevators Co., Washington.

HALLS AND SOCIETY BUILDINGS

Working Drawings.
BIDDING Cost, \$—
SAN FRANCISCO. Powell and Clay streets.

1-story Class B steel frame and concrete building.
Owner—Young Women's Christian Association, 620 Sutter St., San Francisco.

Rect—Miss Julia Morgan, Merchants' Exchange Bldg., S. F.

Being Figured—Bids Close May 2 P. M.

BIDDING Cost, \$—
SERRVILLE, El Dorado Co., Calif. Painting and Re-decorating American Legion Memorial Hall.

County of El Dorado, Arthur Koletzka, county clerk.

Rect—Not Given.
Certified check 10% payable to contractor required with bid. Specifications on file in office of the clerk.

REKA, Humboldt Co., Cal.—Twenty 12 bids will be received by M. Kay, county clerk, to furnish and install furnishings and furniture in Veterans' Memorial Building, Eureka. Specifications on file in office of clerk.

Working Plans.
ESTIMATIONS Cost, \$—
LINGAME, San Mateo Co., Cal. Model one-story frame and stucco clubhouse.

County of San Mateo (American Legion).
Rect—E. L. Norberg, 580 Market St., San Francisco.

Purchased—Plans To Be Prepared FORIA HALL, Cost, \$—
MERTON, Colusa Co., Cal. American Legion Memorial Hall.

County of Colusa, T. D. Cain, county clerk, Colusa.

Rect—Not Yet Selected.
County supervisors have purchased site in Block 2, Lot No. 7, at station on which will be erected clubhouse for Princeton Post, American Legion No. 95.

Working Plans Being Prepared.
ESTIMATIONS Cost, \$2400
SARMENTO, Sacramento Co., Cal. William Land Park.
Clubhouse to clubhouse (caddy room, 12 x 14; restaurant and refreshment parlor).

Owner—City of Sacramento.
Architect—Charles Deann, California State Life Bldg., Sacramento.

Preliminary Plans Being Prepared.
ALTERATIONS Cost, \$—
NAPA, Napa Co., Cal. Second Street. Alterations and additions to three-story brick and store lodge building (add one-story, etc.)
Owner—Masonic Lodge, 2nd St., Napa.
Plans by W. N. Corlett, 507 Jefferson St., Napa.

HOSPITALS

Contract Awarded. April 18, 1931
HOSPITAL Cost, \$—
NORWALK, Los Angeles Co., Cal. State Hospital Grounds.

Two-story reinforced concrete Night Attendants' quarters and 2-story reinforced concrete Dry Attendants' Quarters and 1-story frame and stucco residence.

Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, George B. McDougall, State Architect, Public Works Bldg., Sacramento.

General Work

Carl Haverland, Los Angeles, \$52,465.
Electrical
R. R. Jones Elec. Co., Pasadena, \$2500
Plumbing and Heating
Cooney & Winterbottom, Los Angeles, \$11,124.

SAN FRANCISCO—Until May 4, 3 p. m., under Proposal No. 712, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver hospital equipment for Laguna Honda Home. Specifications obtainable from above.

Preparing Plans
HONOLULU, T. H. Cost, \$250,000
NURSES HOME
Three-story concrete nurses home, (75 rooms, 25 baths).
Owner—Queen's Hospital.
Architect—C. W. Dickey, Honolulu, T. H.

Stucco exterior finish, interior partitions of cement blocks, terra cotta tile roof, concrete floors, electric elevators, standard plumbing goods, Oregon pine interior finish.

Plans Being Prepared—Ready for bids June 1.

HOSPITAL Cost \$140,000
RENO, Nevada. East of the present County Hospital Site.
Class A County Hospital (L-shape).
Owner—County of Washoe, E. H. Zeemer, County Clerk.
Architect—F. J. DeLongchamps, Gazette Bldg., Reno.

The structure will be L-shape and will have a capacity of about 50 beds. An issue of \$23,600 in bonds will be sold by the county and the balance of the cost will come from the County Hospital tax levy.

EUREKA, Humboldt Co., Cal.—County supervisors contemplate erection of new county juvenile detention home. John P. Plover, state superintendent of probation for the Department of Welfare, is conferring with the county in regard to the type of building contemplated.

Inclinerator Contract Awarded.
HOSPITAL Cost, price, \$60,525
COLUSA, Colusa Co., Calif. County Hospital Grounds.

One- and two-story reinforced concrete hospital (one-story wing and two-story administration building)
Owner—County of Colusa.
Architect—Otto Deichmann, 110 Suttenton St., San Francisco.
Contractor—Azevedo & Sarmento, 920 O St., Sacramento.

Inclinerator—Kerner Inclinerator Co., 450 Clementina St., San Francisco.
Only the first unit, having a 24-bed capacity, will be undertaken at this time. The structure, when completed, will have a capacity of 100 beds.

SAN FRANCISCO.—Until May 4, 3 P. M., under Proposal No. 712, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver 120 beds for Laguna Honda Home. Specifications obtainable from above.

Commissioned To Prepare Plans.
HOSPITAL Cost, \$750,000
ALTADENA, Los Angeles Co., Cal. Group of hospital buildings (class A steel frame construction).
Owner—Sisters of Saint Joseph of Orange.

Architect—Newton Ackerman, 102 W 4th St., Eureka.
Associate Architect—Gene Verge, 1769 W 8th St., Los Angeles.

Mr. Ackerman will open offices in Los Angeles in the near future.

SAN FRANCISCO.—Until May 4, 3 P. M., under Proposal No. 714, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, for Duraflex Floor or approved equal in the Infirmary Building of the Laguna Honda Home. Specifications obtainable from above.

HOTELS

Plans Prepared
HOTEL Cost, \$175,000
WAIKIKI, Honolulu, T. H.
Two-story concrete hotel administration bldg. (27 rooms, 22 baths).
Owner—Clifford Kimball.
Architect—C. W. Dickey, Honolulu, T. H.

Interior partitions to be of stucco exterior finish, cement blocks asbestos shingle roof, concrete floors, automatic push button elevator, Kohler plumbing goods, Oregon pine and redwood interior finish.

ICE AND COLD STORAGE PLANTS

Elevator Contract Awarded.
EXTENSION Cost approx. \$90,000
SAN FRANCISCO. Channel between Pier No. 46 and 3rd St. bridge.
Extension to cold storage plant (refrigeration plant and install machinery and equipment).
Owner—State Board of Harbor Commissioners.
Engineer—Frank White, Ferry Bldg.
Elevators—Spencer Elevator Co., 354 Pine St., \$11,565.
Other contracts on this project previously reported.

POWER PLANTS

PASADENA, Cal.—Until 11 A. M., May 15, bids will be received by the city directors for furnishing and installing a steam condenser in the Municipal Light Plant. The estimated cost is \$50,000 and bids are being taken on the following items:
(1) two-pass cast iron shell surface condenser with two unequal circulating pumps and appurtenances
(2) two-pass welded steel plate shell condenser, with pumps, and appurtenances.

Edwin P. DeLury is Superintendent of the Light and Power Dept. Bessie Chamberlain, city clerk.

VERNON, Los Angeles Co., Cal.—Until 8 P. M., May 6, bids will be received by the Vernon City Council for furnishing and erecting equipment for the new Vernon power plant, including a Diesel engine, generators, exciters, circulating water pump and air blower. Specifications are on file

at the Vernon City Hall. Certified check for 10 per cent must accompany each bid. T. J. Furlong, city clerk. Howard S. McCurdy, city engineer, prepared the specifications.

UKIAH, Mendocino Co., Cal.—Until 8 P. M. April 23, bids will be received by Fred L. Bosworth, city clerk, for one carload of mixed poles, F. O. B. cars, Ukiah, as follows:
(a) 25-50' Western Red Cedar Poles;
(b) 45' Western Red Cedar Poles in sufficient quantity to make carload lot.

All poles to be butt treated with grade one creosote oil, guaranteed 1/2" penetration. Treatment to comply strictly with Western Red Cedar Association butt treating specification as adopted January 13, 1925. Certified check for 10% of bid required.

PASADENA, Los Angeles Co., Cal.—The Municipal Light & Power Department of Pasadena has purchased a building on Skillen's alley, back of the Pasadena Athletic and Country Club, which will be altered for a substation. Transformers, regulators, switches and other equipment to cost about \$75,000 will be installed.

LOS ANGELES, Cal.—General Elec. & Supply Co. awarded contract by city purchasing agent at \$13.03 per hundred weight for furnishing 36,000 lbs. No. 1/0 A.W.G. hard drawn, 7-strand bare copper cable under Specifications No. 2398.

ANAHEIM, Orange Co., Cal.—Until 8 P. M., May 12, bids will be received by the Anaheim city council for furnishing electrical equipment as follows:

ITEM 1, ELECTRICAL TRANSFORMERS—Electric transformers of such sizes, at such times and in such quantities as said city may determine, the total amount of contract for this commodity to be between \$1000 and \$5000. Said transformers shall be equal to General Electric type H, 50-cycle. Contract to include sizes from 1 1/2 k. w. to 200 k. w. 230-volt primary and 115-230-volt, 230-460-volt and 115-230-460-volt secondary circuits; also all standard sizes for 11,500 volt primary and 115-240-volt, 230-460-volt and 2300-4000-volt secondary circuits. Prices for transformers to include oil, also hanger irons for sizes up to 50 k. w. Contract to include fuse cut-outs equal to General Electric Catalog No. 6X2433.

ITEM 2, ELECTRIC METERS—Electric meters of such classes, at such times and in such quantities as said city may determine, the total amount of contract for this commodity to be between \$1000 and \$5000. Said meters shall include single phase for two or three wires, equal to General Electric type 1-16; poly-phase equal to General Electric type D-14; and 5 ampere meters for sizes up to instrument transformers. Single phase meters for two wires to be 50-cycle, 110-volts; for three wires to be 50-cycle, 110-220-volt. Polyphase meters to be 50-cycle, 220 and 440 volt, 5-ampere meters to be 50-cycle, 110, 220 and 440 volt, with and without demand attachment.

Certified check for \$100 must accompany the proposal. Edward B. Merritt, city clerk.

LOS ANGELES, Cal.—Until 11 A. M., April 23, bids will be received by city purchasing agent, Thomas Oughton, for pole line hardware, under Specifications No. 2436. The items are:

- (1) 2500 angle cross arm braces;
- (2) 5500 carriage bolts, 1/2-in.x3 1/2-in.;
- (3) 1500 space bolts, 1/2-in.x2 1/2-in.;
- (4) 2500 lag screws, 3/4-in.x5-in.;
- (5) 3000 eye bolts, 3/4-in.x3-in.;

- (5a) 1000 eye bolts, 5/8-in.x2 1/2-in.;
- (5b) 1000 eye bolts, 3/4-in.x2 1/2-in.;
- (6) 1000 3-ft. Bierce guy wire protectors;
- (7) 10,000 strain insulator clevises;
- (8) 6000 three-bolt guy clamps.

To Be Done By Day's Work.
SULPHUR CITY, Cal., Cost, \$80,000
SAN FRANCISCO. E. Broderick St. bet. Ellis and O'Farrell.
Class A sub-station.
Owner—Pacific Gas & Electric Co., 245 Market St.
Plans by Eng. Dept. of Owner.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

SAN FRANCISCO.—Cyclops Iron Works, 837 Folsom St., at \$1,450 awarded contract by City Purchasing Agent, under Proposal No. 686, to furnish and install three electric refrigerators in the Juvenile Detention Home.

Plans Being Figured—Bids Close May 4, 7:30 P. M.

PAINTING & REPAIRING COST, \$—WILLOW'S, Glenn Co., Cal. Painting and repairing public library. Owner—Town of Willows, L. B. Eubank, town clerk.
Architect—Not Given.

All interior woodwork to be cleaned and given one coat of W. P. Fuller's Interior Finish Varnish, highest grade; walls and ceilings (plaster to be sized and tinted in two colors (cream ceiling and tan walls); all plaster cracks to be filled; vestibule to be given two coats flat paint and grained, shellaced and varnished with Spar Varnish. Certified check 10% payable to town required with bid. Specifications on file in office of clerk.

Plans Being Figured—Bids Close May 5, 2 P. M. (time extended from April 28).

Granite Work, Architectural Terra Cotta, Indiana Limestone and Exterior Cast Stone Work in connection with

LEGION BLDG. Cost, \$2,500,000
SAN FRANCISCO. Civic Center. Four -story and basement concrete class A Legion Building.

OPERA HOUSE Cost, \$2,500,000
SIX-STOREY class A opera house, seating capacity, 4,000; standing room, 500.

Owner—City and County of San Francisco (S. F. War Memorial).
Architect—G. A. Lansburgh, 140 Montgomery St., and Arthur Brown, 251 Kearny Street.

Mgrs. of Const.—Lindgren & Swinerton, Inc., 225 Bush St.

RESIDENCES

Sub-Bids Being Taken.
RESIDENCES Cost, \$5500 each
SAN FRANCISCO. Thirty-fourth Ave. near Vicente St.

SIX one-story and basement frame and stucco residences (5 rooms each).
Owner and Builder—John Bjorkman, 912 Geneva Ave., San Francisco.
Architect—Not Given.

Bids Opened.
RESIDENCE Cont. price, \$12,998
SANTA CRUZ, Santa Cruz Co., Cal. One -story and basement frame and stucco residence (7 rooms and 3 baths; English type; tile or slate roof).

Owner—L. Bowman, Santa Cruz.
Architect—L. D. Esty & McPhetres, Alta Bldg., Santa Cruz.

Low Bidder—Wm. Friesen, 462 Bay St. Santa Cruz.
Second lowest bid was submitted by E. F. Stone, Santa Cruz, at \$13,343. Bids held under advisement.

Contract Awarded.
RESIDENCE Cost, \$5500
One -story and basement frame and stucco residence.
Owner—Anita J. Parker & Ada J. Field, Sausalito.
Architect—S. L. Hyman, 68 Post St., San Francisco.
Contractor—Jacks & Irvine, 540 1/2 Bldg., San Francisco.

Owner Taking Bids.
RESIDENCE Cost, \$3000
PALO ALTO, Santa Clara Co., Cal. Two -story and basement frame and stucco residence (7 rooms).
Owner—N. F. Knox, President Hotel, Palo Alto.
Architect—Guy O. Koopp, McColl Bldg., Salinas.

Low Bidder.
RESIDENCE Cost, \$3000
BURLINGAME, San Mateo Co., Cal. Two -story and basement frame and stucco residence (7 rooms all baths).
Owner—David Simpson.
Architect—E. L. Norberg, 580 Mission St., San Francisco.
Low Bidder—G. W. Williams Co., 1044 Broadway, Burlingame.

Sub-Bids Wanted.
RESIDENCE Cost, \$2000
WOODSTOCK, San Mateo Co., Cal. Two -story and basement frame and stucco residence 10 rooms and 3 baths).
Owner—Withheld.
Plans by Russell Coleman, 1404 Broadway, Burlingame.
Contractor—G. W. Williams Co., 1044 Broadway, Burlingame.

Shake Roof—Baer Brothers, Redwood City.
Sub-bids are wanted on the replastering, hardwood flooring and painting.

To Take Bids Within One Week.
RESIDENCE Cost, \$2000
HILLSBOROUGH, San Mateo Co., Cal. Two -story and basement frame and stucco residence.
Owner—W. H. Berg.
Architect—Willis Polk Co., 277 Mission St., San Francisco.

Owner Taking Bids.
RESIDENCE Cost, \$1000
SAN MATEO, San Mateo Co., Cal. Baywood Park. Two -story and basement frame and stucco residence (7 rooms all baths).
Owner—Robert Smith, 1493 Burlingame Ave., Burlingame.
Plans by Grimes & Schoening, Bayview Bldg., San Mateo.

Contract Awarded.
RESIDENCE Cost, \$3000
BURLINGAME, San Mateo Co., Cal. Two -story and basement frame and stucco residence (6 rooms all baths).

Owner—S. W. Beeman, 721 Neuchâtel Ave., Burlingame.
Plans by A. L. Herberger, 3281 Lakeshore Blvd., Oakland.
Contractor—H. K. Henderson, 20 1/2 Road, Berkeley.

Contract Awarded.
RESIDENCE Cost, \$4000
MILLBRAE HIGHLANDS, San Mateo Co., Calif.

One -story and basement frame and stucco residence (6 rooms).
Owner—George Wale, 575 Pierce St., San Francisco.
Architect—Charles Strothoff, 2274 Broadway, San Francisco.
Contractor—Moses Little, 715 S. Humboldt St., San Mateo.
Part tile roof, gas and hot air heating system.

Contract Awarded.
RESIDENCE Cost, \$8500
PALO ALTO, Santa Clara Co., Cal.
One and one-half-story and basement
frame and stucco residence (7
rooms, 2 baths).
Owner—Monroe Allen, Palo Alto.Architect—Guy O. Koepff, McDougall
Bldg., Sausalito and Carmel.
Contractor—E. Aldrich, Palo Alto.

Plans Being Prepared.
RESIDENCE Cost, \$25,000
SAN FRANCISCO, Marina District.
Two-story and basement frame and
stucco residence (9 rooms and 4
baths).
Owner—Withheld.
Architect—Chas. Strothoff, 2274 15th
St., San Francisco.

Plans Being Prepared.
RESIDENCE Cost, \$18,000
SAN FRANCISCO, Marina District.
Two-story and basement frame and
stucco residence (9 rooms and 4
baths).
Owner—Withheld.
Architect—Chas. Strothoff, 2274 15th
St., San Francisco.

Plans Being Prepared.
RESIDENCE Cost, \$9000
SAN FRANCISCO, Twenty-ninth Ave.
and Cabrillo St.
One and one-half-story and basement
frame and stucco residence (8
rooms and 2 baths).
Owner—Mr. Rhodes.
Architect Not Given.
Contractor—A. R. Johnson, 3901 Mis-
sion St., San Francisco.
Plans will be taken April 25.

Plans Being Figured.
RESIDENCE Cost, \$12,000
SAN FRANCISCO, Sherwood Forest
(Monterey Blvd.)
Two-story and basement frame and
stucco residence (8 rooms and 3
baths).
Owner—Lang Realty Co., 39 Sutter St.
Plans by Frank Nelson, 810 Ulloa St.
Plans are being taken for a general
contract.

Plans Opened—Under Advisement.
RESIDENCE Cost, \$10,000
BERMORE, Alameda Co., Cal.
Two-story and basement frame and
stucco residence.
Owner—Withheld.
Architect—Leonard Ford, 1435 Harri-
son St., Oakland.

Plans Being Taken Bids.
RESIDENCES Cost each, \$6000
SAN JOSE, Santa Clara Co., Calif.
One one-story and basement frame
and stucco residences (5 bedrooms).
Owner—Mary E. Chute, % Blebrach-
Smith & Moore, 285 S First St.,
San Jose.
Architect—Wolfe and Higgins, Realty
Bldg., San Jose.

Plans Being Taken Bids.
RESIDENCE Cost, \$11,000
BERKELEY, Alameda Co., Cal. Crin-
da District.
Two-story and basement frame and
stucco residence (7 rooms and 2
baths).
Owner—Carl Friden.
Architect—Fred H. Reimers, 233 Post
St., San Francisco.
Plans will be taken in one week.

Plans Being Figured—Bids Close April
25.
RESIDENCE Cost, \$5000
MCKINLEY, San Joaquin Co., Cal.
Two-story and basement frame and
stucco residence (5 rooms).
Owner—W. H. Griffin, Stockton.
Architect—Victor Galbraith, Elks Bldg.,
Stockton.
Single roof, gas heating system.

Contract Awarded.
RESIDENCE Cost, \$9000
OAKLAND, Alameda Co., Cal. Rock-
ridge District.
One and one-half-story frame and
stucco residence (7 rooms; 2-car
garage).
Owner—J. H. Donnelly, 281 Mather St.,
Oakland.
Architect—Guy L. Brewin, American
Bank Bldg., Oakland.
Contractor—Gordon Marchant, 3231
Bruce St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$10,000
MEDMONT, Alameda Co., Cal. No.
151 Saurdingham St.
Two-story frame and stucco residence
(7 rooms and garage).
Owner—Timothy E. Colvin, 461 Belle-
vue Ave., Oakland.
Architect—Newson & Newson, Russ
Bldg., San Francisco.
Contractor—C. W. Leekins, 1650 Hop-
kins St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$10,400
OAKLAND, Alameda Co., Cal. Hill
Road.
Two-story and basement frame and
stucco residence (9 rooms and 2
baths).
Owner—P. W. Ramser.
Architect—Geo. Ellinger, 1723 Webster
St., Oakland.
Contractor—George Swanstrom, 1723
Webster St., Oakland.

Plans Being Prepared.—Walter A. Hoff
Landscape Organization, 526 Powell
St., reports having received the fol-
lowing contracts:
Screen planting, sunken garden,
formal gardens, walks, lawns, etc., for
a French garden for Mr. and Mrs.
Kok, Atherton Ave., Menlo Park. Cost
plus basis; estimated cost, \$4000.
Formal gardens, rose garden, pool,
fountain, lawns, sprinklers, walks,
paths, swimming pool for Mr. and Mrs.
H. X. Baxter, Menlo Park. Cost \$8,-
000.
Japanese garden, pool, bridges, tea
house, general garden renovation for
A. J. Gerrard. Cost plus basis.

Plans Being Prepared.
RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. Ber-
keley View Terrace.
One-story and basement frame and
stucco residence (5 rooms).
Owner—G. S. Mushet, 324 43rd Street,
Richmond.
Plans by A. R. Herberger, 3281 Lake-
shore Blvd., Oakland.
Plans will be ready for bids in about
three weeks.

Plans Being Prepared—Held Under Advisement.
RESIDENCE Cost, \$10,000
SAN FRANCISCO, Marina District.
Two-story and basement frame and
stucco residence.
Owner—F. Rathjens, 1327 Pacific Ave.,
San Francisco.
Architect—Henry C. Smith and A. R.
Williams, Humboldt Bank Bldg.,
San Francisco.

Plans Being Prepared—Held Under Advisement.
RESIDENCE Cost, \$—
SAN FRANCISCO, Marina District.
Two-story and basement frame and
stucco residence (3 rooms and 3
baths).
Owner—F. Heydenfeldt, 727 9th Ave.,
San Francisco.
Architect—Norman R. Coulter, 46
Kearny St., San Francisco.

Plans Being Prepared—Held Under Advisement.
RESIDENCE Cost, \$6000
OAKLAND, Alameda Co., Cal. Clare-
mont Woodlands.
Two-story and basement frame and
stucco residence (7 rooms).
Owner—Withheld.

Plans by Ralph Wood, 1197 Foothill
Blvd., San Leandro.
Contractor—Nyländer Bros., 633 Mont-
clair Ave., San Leandro.

Sub-Contracts Awarded.
RESIDENCE Cost, Approx. \$20,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence (10 rooms).
Owner—Dr. E. P. Cook, Saint Claire
Bldg., San Jose.
Architect—Ralph Wyckoff, San Jose
National Bank Bldg., San Jose.
Contractor—Guy M. Latta, 157 Rhodes
Court, San Jose.

Mill Work—S. H. Chase Lumber Co.,
547 W. Santa Clara St., San Jose.
Plumbing and Sheet Metal Work—W.
F. Serpa, 497 N-13th St., San Jose.
Painting—Wm. Loos, 1031 Pershing
St., San Jose.
Plastering—Joe Provenzano, 85 N-
Willard St., San Jose.
Electric Work—J. M. Butcher, 1020
Sherwood St., San Jose.

Sub-Contracts Awarded.
RESIDENCE Cost, \$20,000
ATHERTON, San Mateo Co., Cal.
Two-story and basement frame and
stucco residence (10 rooms and 3
baths).
Owner—J. W. Kaufman, 2600 Steiner
St., San Francisco.
Architect—George deComesnil, Ne-
vada Bank Bldg., San Francisco.
Contractor—Louis N. Follard, 55
Brewster St., Redwood City.
Painting—D. Zelinsky & Sons, 165
Grove St., San Francisco.
Plumbing—V. L. Doppee, Radwood
City.

Glass bids are being taken.
As previously reported, plastering
awarded to Ira T. Bridges, 534 Waver-
ley St., Palo Alto; mill work to
Pacific Mfg. Co., Santa Clara; lumber
to Gray-Thorning Lumber Co., Red-
wood City; concrete materials to Red-
wood Materials Co., Redwood City;
electric work to M. E. Ryan, Redwood
City; sheet metal work to Palo Alto
Sheet Metal Works, 841 Alma St.,
Palo Alto.

Date of Opening Bids Postponed.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement rustic resi-
dence (7 rooms).
Owner—C. Wesley Toy, 760 S-Ninth
St., San Jose.
Architect—Binder & Curtis, 36 W-San
Carlos St., San Jose.

Plans Being Figured—Bids Close April
27.
BUNGALOW COURT, Approx. \$45,000
SAN CARLOS, San Mateo Co., Cal.
One-story frame and stucco bungalow
court.
Owner—Withheld.
Architect—Ernest Norberg, 530 Mar-
ket St., San Francisco.

Construction To Start Soon
RESIDENCES Cost \$10,500 & \$12,500
TEN, One and Two-Story Frame and
Stucco Residences.
SAN FRANCISCO, Calif., Sloat Blvd.
& 19th Ave.
Owner and Builder—Will Nelson, Og-
den Ave. & West Gate Drive,
Plans by owner.
There will be 450 residences construct-
ed in all at a later date.

Completing Plans
RESIDENCE Cost, \$10,000
PALO ALTO, Santa Clara Co., Calif.
Washington Avenue.
Two-story and basement frame and
stucco residence (8 rooms, 2 baths)
Owner—L. Bogard.
Plans by E. J. Lichel, 303 University
Ave., Palo Alto, Cal.

Low Bidders.
RESIDENCE Cost, \$18,000
BERKELEY, Alameda Co., Cal. Hawthorne Terrace.
Two-story and basement frame and stucco residence (9 rooms and 4 baths).
Owner—Withheld.
Architect—Wm. C. Ambrose, 605 Market St., San Francisco.
Low Bidder—T. D. Courtright, 5098 Manila St., Oakland, \$17,116.
Second lowest bid was submitted by Clinton Stephenson Const. Co., San Francisco, at \$17,676.
Bids held under advisement.

Sub-Figures Being Taken.
RESIDENCE Cost, \$4500
SAN FRANCISCO. W Orizaba Ave. N Randall Street.
One-story and basement frame and stucco residence (5 rooms).
Owner and Builder—S. E. Havens, 270 Justin Drive, San Francisco.
Architect—Not Given.

Contract Awarded.
RESIDENCE Cost, \$12,000
OAKLAND, Alameda Co., Cal. SE Vicksburg and Ygnacio Ave.
One-story seven-room frame and stucco residence and garage.
Owner—E. C. Rowden.
Architect—Not Given.
Contractor—G. H. Wendt, 2116 Alliston Way, Berkeley

Preparing Working Drawings.
RESIDENCE Cost, \$12,000
SEBASTOPOL, Sonoma Co., Cal.
Two-story and basement frame and stucco residence (8 rooms, 2 baths).
Owner—Chas. Meyers, Sebastopol.
Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.
Bids will be taken in about two weeks.

Sub-Figures Being Taken.
RESIDENCE Cost, \$6000
SAN MATEO, San Mateo Co., Cal. Casa Mateo.
Two-story and basement frame and stucco residence (7 rooms).
Owner—Castle Bldg. Co., Casa Mateo, San Mateo.
Architect—Not Given.
Contractor—G. W. Morris, Casa Mateo San Mateo.

Preparing Preliminary Plans.
RESIDENCE Cost, \$10,000
TURLOCK, Stanislaus Co., Cal.
Two-story and basement frame and stucco residence (8 rooms and 2 baths).
Owner—Withheld.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Contract Awarded—Sub-Bids Being Taken.
RESIDENCE Cost, \$7000
NAPA, Napa Co., Cal.
One-story and basement wood frame residence (7 rooms, 3 baths) (old English type).
Owner—S. H. Wood, Napa.
Architect—Not Given.
Contractor—James E. Burke, 1494 Guerrero St., San Francisco.
Shingle roof, gas heating system, etc.

Sub-Figured Being Taken.
RESIDENCE Cost, \$6500
MILLBRAE HIGHLANDS San Mateo Co. Cal.
One-story and basement frame and stucco residence (5 rooms).
Owner—Schultz Constr. Co. Millbrae Highlands.
Architect—Not Given.

Sub-Figured Being Taken.
RESIDENCE Cost, \$6000
SAN FRANCISCO. S Benton W Genburn St. (St. Mary's Park).
One-story and basement frame and stucco residence (5 rooms).

Owner and Builder—A. R. Johnson
3901 Mission St., San Francisco.
Architect—Not Given.

Contract Awarded.
RESIDENCE Cost, \$6C34
REDWOOD CITY, San Mateo Co., Cal. Redwood Highlands.
One-story frame and stucco residence
Owner—M. K. White.
Plans by Owner.
Contractor—Buschke & Johnson, 253 Third Ave., San Mateo.

Sub-Figures Being Taken.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. Fernwood Drive near Ravenwood.
Two-story and basement frame and stucco residence (8 rooms and 2 baths).
Owner and Builder—G. W. Stanley, 467 Turk Street.
Architect—Harold Stoner, 525 Market Street.

Bids Opened.
RESIDENCE Cost, \$16,000
SAN JOSE, Santa Clara Co., Calif.
Two-story and basement frame and stucco residence (6 rooms and 3 baths).
Owner—Dr. E. E. Porter, Security Bank Bldg., San Jose.
Architect—Wolfe and Higgins, Realty Bldg., San Jose.

General Work
including lumber, mill work, foundations, excavation, labor and nails:
S. DiFore, 985 Hamline, San Jose\$4,450
C. F. Keesling, San Jose 4,980

Plastering
W. G. Newman, San Jose 1,300
H. J. Huff, San Jose 1,300

Plumbing
H. J. Pascoe, 208 W Santa Clara, San Jose 1,307
Frank Cox, San Jose 1,340

Electric
R. M. Butcher, 1020 Sherwood, San Jose\$320

Iron
Harold Hellwig, 577 W Santa Clara San Jose\$225
San Jose Iron Works, San Jose 260

Brick
H. Fuller, San Jose\$216

Interior Tile
Thomas Price, 90 Vine St., San Jose\$957
Bids held under advisement.

Owner Taking Bids—To Be Opened April 27th.
RESIDENCE Cost, \$15,000
HILLSBOROUGH, San Mateo Co. Cal.
Two-story and basement frame and stucco residence (9 rooms and 3 baths).

Owner—G. A. Banman, 1508 Hurlbunda, Burlingame.
Plans by E. Reichel, 303 University Ave., Palo Alto.

Segregated Figures Being Taken.
RESIDENCE Cost, \$300
SAN JOSE, Santa Clara Co., Calif.
One-story and basement framed stucco residence (6 rooms).
Owner—A. Goldstein, Los Gatos.
Architect—Wolfe and Higgins, Realty Bldg., San Jose.

SCHOOLS

Bids Opened.
ELECTRIC SYSTEM Cost, \$—
SANTA CLARA, Santa Clara Co., Calif.
Electric wiring system for elementary school.

Owner—Santa Clara School District
Chas. W. Townsend, Clerk.
Architect—Ralph Wyckoff, San Jose National Bank Bldg., San Jose.
Following is a complete list of bids received:
Gilbert Bros., 286 W-Santa Clara St. San Jose. (1) \$2990; (2) \$251
University Electric Shop, Palo Alto (1) \$3145; (2) \$2706.
Roy Butler, San Jose. (1) \$3200 (2) \$2326.
Noonan, Russell, San Jose (1) \$3000 (2) \$3100.
Chas. Faser, San Jose (1) \$3850 (2) \$3440.
Bids held under advisement at return of the architect from the list.

Contract Awarded.
SCHOOL Cost, \$—
REDONDO, Los Angeles Co., Cal.
Two-story reinforced concrete and steel school (100x158 ft.).
Owner—Redondo Union School District.
Architect—Alison & Allison, California Reserve Bldg., Los Angeles.
Contractor—M. M. Waddell, 20 S Irena St., Redondo.

STOCKTON, San Joaquin Co., Calif.
Until April 29, 5 P. M., bids will be received by Ansel S. Williams, Secretary of Board of Education, Washington School Building, to furnish and deliver general school supplies. List of materials desired obtainable from Secretary.

Preliminary Plans Completed.
ADDITION Cost, \$8000
IONE, Amador Co., Cal.
Additional units at Preston School of Industry.
Owner—State of California.
Architect—R. G. De Lappe, Franklin St., Oakland.

ORNAMENTAL WIRE AND IRON WORK

IRON WIRE Fence and Gates

TENNIS COURT ENCLOSURES WIRE SCREENS AND GUARDS

WEST COAST WIRE & IRON WORKS

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Plans Being Figured—Bids Close May 8, 8 P. M.
ADDITIONS Cost \$50,000 and \$80,000
LBANY, Alameda Co., Cal. Cornell and Marin Elementary Schools.
x-classroom addition to Cornell School and 10 classroom addition to Marin School (reinforced concrete construction).
Owner—Albany School District (J. P. Fletcher, Secretary), Albany.
Architect—Paul D. Dragon, 222 Kearny St., San Francisco.
 Bids deposited required for plan.

Commissioned to Prepare Plans.
TIPOOL ENTRANCE Cost, \$3500
S GATOS, Santa Clara Co., Cal.
 Anish type portico entrance for elementary school.
Location—Gatos Elementary School District.
Architect—W. H. Weeks, 525 Market St., San Francisco.
 The new entrance will provide a fire lift for the second story. It will be fireproof construction.

Ann Election to Be Held in September.
HOOL Cost, \$230,000
ALLEJO, Solano Co., Cal.
 Cast C brick or concrete Junior High School.
Owner—Vallejo Junior High School District, Elmer E. Cave, secretary, Board of Education.
Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.

Contract Awarded.
GNASIUM Cont. Price, \$19,462.25
TTON, Sonoma Co., Cal.
 One-story wood frame gymnasium with steel trusses.
Owner—Salvation Army.
Architect—Douglas Stone, 337 17th St., Oakland.
Contractor—A. Pardon, Healdsburg.

Preparing Working Drawings.
ILLEGE Cost, \$45,000
ANTA ROSA, Sonoma Co., Cal.
 Second unit of Junior College (to house six science laboratories and two classrooms, offices and rest rooms) (brick construction).
Owner—Santa Rosa Junior College District.
Architect—W. H. Weeks, 525 Market St., San Francisco.
 Plans will be ready in about two or three weeks.

Estimatory Plans Completed.
GNASIUM Cost, \$1,000,000
ERKELEY, Alameda Co., Cal.
 Campus of University of California.
Uses A steel frame and concrete gymnasium.
Owner—University of California, Berkeley.
Architect—George Kelham, 315 Montgomery St., San Francisco.

Plans Completed.
ADDITIONS Cost, \$150,000
N FRANCISCO. Scott and O'Farrell Streets.
 Addition to Girls' High School.
Owner—City & County of San Francisco.
Architect—F. H. Meyer, 525 Market St., San Francisco.
 Bids will be advertised in two weeks.

Plans Being Prepared.
HOOL \$15,000 available
IAH, Mendocino Co., Cal. Redwood Valley District.
 One-story school (4 classrooms and auditorium) (reinforced concrete walls).
Owner—Redwood Valley Union School District.
Architect—William Herbert, Rosenberg Bldg., Santa Rosa.
 Bids will be called for in about two weeks.

Plans Being Prepared.
ALTERATIONS Cost, \$—
BURLINGAME, San Mateo Co., Cal.
 Remodel cloak room for classroom; construct study hall in basement and paint bleachers and baseball field enclosure.
Owner—San Mateo Union High School District.
Architect—E. L. Norberg, 530 Market St., San Francisco.

Bids Opened.
SCHOOL Cost, \$200,000
RENTON, Washington.
 Concrete and brick school (20 classrooms, assembly hall, seating 900; 2 gymnasiums).
Owner—Renton City School District.
Architect—William Mallis, Lyon Bldg., Seattle, Wash.

Low Bidders
General Contract—Roy S. Lipscomb, 4235 Brooklyn ave., Seattle, \$173,700.
Heating and Plumbing—Massart Bros., North 35th and Greenwood sts., Seattle, \$26,650.
Electric Work—Rainier Electric Co., 1109 Third st., Seattle, \$11,322.

BURLINGAME, San Mateo Co., Cal.
 Trustees of the San Mateo Union High School District have authorized the installation of additional lockers for the girls' quarters at the Burlingame High School.

Contract Awarded.
SCHOOL Cost, \$50,000
SANTA ROSA, Sonoma Co., Cal. Ursuline College.

Two-story and basement reinforced concrete parochial school (3 classrooms and auditorium).
Owner—Ursuline College, Santa Rosa.
Architect—H. A. Minton, Bank of America Bldg., San Francisco.
Engineer—L. H. Nishkian, 525 Market St., San Francisco.
Contractor—Leibert & Trobeck, Rialto Bldg., San Francisco.

Incinerator Contract Awarded.
SCHOOL Cost, \$—
SAN FRANCISCO. Noe and 25th Sts.
 Class A junior high school building (3-story and basement concrete. Travertine exterior, tar and gravel roof; to accommodate approx. 800 students).
Owner—City and County of San Francisco.
Architect—Crim, Resing and McGuinness, 458 Pine Street.
Contractor—Anderson & Ringrose, 320 Market Street.

Incinerator—Kerner Incinerator Co., 440 Clementina St., Oakland, Cal.—Until May 5, 4:15 P. M., bids will be received by John W. Edgemond, secretary, Board of Education, 104 Administration Bldg., 1025 2nd Ave., to install floor and pipe

trenches for the Maintenance Shops at NW corner of Watling and High Sts. Certified check 10% payable to Board of Education required with bid. Plans obtainable from Superintendent of Buildings, 1025 Second Ave.

Plans Being Figured—Bids Close May 4th.
ADDITION Cost, \$—
BRENTWOOD, Contra Costa Co., Cal.
 One-story brick addition to present grammar school.
Owner—Brentwood-Deer Valley School District (C. M. Shoemaker, clerk), Brentwood.
Architect—James T. Narbett, 474 31st St., Richmond.
 Bids will be opened at the county clerk's office, Martinez.

Plans Being Figured—Bids Close May 4, 2 P. M.
GYMNASIUM Cost, \$—
BISHOP, Inyo County, Calif.
 Gymnasium building.
Owner—Bishop Union High School District, Thomas G. Watterson, clerk, Bishop.
Architect—Not Given.

Separate bids are wanted for the following segregated units of the work and combinations thereof:
 General concrete work.
 Composition roof.
 Carpenter work.
 Lumber, doors, sash, etc.
 Sheet metal work.
 Electric wiring.
 Painting.
 Plumbing.
 Heating system.
 Certified check 10% payable to clerk required with bid. Plans obtainable from the clerk at Bishop.

Preparing Working Drawings.
GYMNASIUM Cost, \$25,000
OROVILLE, Butte Co., Calif.
 One-story steel frame and reinforced concrete gymnasium.
Owner—Oroville Union High School District.
Architect—N. W. Sexton, deYoung Bldg., San Francisco.
 Plans will be ready for bids in about three weeks.

OAKLAND, Cal.—C. F. Weber Co., 659 2nd St., San Francisco, at \$8,004 awarded contract by Board of Education, to furnish and deliver science tables for Fremont High School.

Preliminary Plans Approved.
LIBRARY Cost, \$117,000
CHICO, Butte Co., Cal. State Teachers' College.
 One- and two-story library and classroom building (20,000 sq. ft.)
Owner—State of California.
Architect—Chester Cole, First National Bank Bldg., Chico.
 Brick construction, concrete floors, concrete pile foundations, terra cotta tile roof.

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Prospective Bidders.
SCHOOL Cost, \$87,000
YUBA CITY, Sutter Co., Cal.
 Two-story brick elementary school.
 Owner—Yuba School District, C. P. Taylor, Roy E. Cassidy and Elizabeth Z. Littleton (clerk), trustees of district.
 Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.
 Edw. H. Riley, 413 E Market Street, Stockton.
 Chas. F. Unger, 4532 7th St., Sacramento.
 Azevedo & Sarmiento, 829 O Street, Sacramento.
 M. R. Peterson, 116 O St., Sacramento.
 W. J. Shalz, 3445 Woodland Avenue, Chico.
 H. H. Henning, 1751 Berkeley Way, Stockton.
 C. H. Dodd, 42 W Park St., Stockton.
 John J. Cavanaugh, 219 N Sutter St. Stockton.
 Carl Nelson, 1421 E Channel St., Stockton.
 Salth Bros., 25 Taylor St., San Francisco.
 Geo. D. Hudnutt, 1915 S St., Sacramento.
 C. J. Hopkins, 1810 28th St., Sacramento.
 Frank H. Cress, 828 Excelsior Ave., Oakland.
 Pavert & Parker, 5526 Morse Drive, Oakland.
 Fred H. Betz, 1017 43rd St., Sacramento.
 J. S. Hannah, 268 Market St., San Francisco.
 Mathews Const. Co., Forum Bldg., Sacramento.
 W. Burroughs, Marysville.
 R. Hodgson & Sons, 215 South F St., Porterville.
 Geo. J. Maurer Co., 50 York Drive, Piedmont.
 A. F. & C. W. Mattock, 212 Clara St., San Francisco.
 Plans available from Mrs. E. Z. Littleton, clerk, upon deposit of \$50. Bids will be received at the elementary school and will be opened at 2 P. M. May 9, 1931, in the high school auditorium.

Plans Being Figured—Bids Close May 19, 2 P. M.
ADDITION Cost, \$—
CHICO, Butte Co., Cal.
 One-story brick assembly hall addition
 Owner—State of California.
 Plans by State Department of Public Works, Division of Architecture, Geo. B. McDougall, state architect, Public Works Bldg., Sacramento.
 The addition will have pile foundations, concrete floors, brick walls, tile partitions, concrete and wood roof construction and tile and composition. It will have floor area of approximately 5,664 sq. ft. Separate bids will be considered for the following separate parts of the work and for combinations thereof:
 (1). General Work, embracing all work except plumbing, heating and electrical.
 (2). Electrical Work.
 (3). Plumbing Work.
 (4). Heating Work.
 (5). Combined plumbing and heating work.

April 23, 1931
 Plans Being Figured—Bids Close May 8th, 8 P. M.
SCHOOL Cost, \$3000
LAKEPORT, Lake Co., Cal.
 One-story frame and stucco school (2 classrooms).
 Owner—Sulphur Bank School District.
 Architect—N. R. Coulter, 46 Kearny St., San Francisco.
 Bids will be opened at the Post Office at Stubbs, Calif.

SAN JOSE, Santa Clara Co., Cal.—
 Until May 12, 5 P. M., bids will be received by Walter L. Bachrodt, secretary, Board of Education, to furnish and deliver school supplies for the school year 1931-1932. Specifications obtainable from City Superintendent of Schools.

Plans Being Figured—Bids Close May 9th.
SCHOOL Cost, \$—
ELK CREEK, Glenn Co., Cal.
 One-story frame and stucco grammar school (3 classrooms).
 Owner—Elk Creek Grammar School District.
 Architect—C. A. Delchman, 111 Sutter St., San Francisco.
 Bids are being taken from a selected list of local contractors.

Plans Being Prepared.
ADDITION Cost, \$15,000
SANTA ROSA, Sonoma Co., Cal.
HIGH SCHOOL
 One-story brick addition to high school shop.
 Owner—Santa Rosa High School District, Santa Rosa.
 Architect—William Herbert, Rosenberg Bldg., Santa Rosa.
 Plans will be ready for bids in about thirty days.

Contract awarded
GYMNASIUM Cost \$20,000
PRINCETON, Colusa Co., Cal.
 One-story frame and stucco gymnasium.
 Owner—Princeton Joint Union High School District, O. F. Steel, clerk.
 Architect—Chester Cole, 1st National Bank Bldg., Chico.
 Steam heating system, tile roof, stage and equipment, hardwood flooring.
 Contractor—J. P. Brennan, Redding, Calif.
 Following is a complete list of the bids received:
 Chas. F. Unger, Sac. \$23,894
 Wm. J. Shalz, Chico 24,400
 J. P. Brennan, Redding 24,417
 Harry Porter 26,555
 Campbell Constr. Co., Sac 26,554
 David Nordstrom, Oak 27,960

OAKLAND, Cal.—E. F. Shearer, 243 Golden Gate Ave., San Francisco, at \$1,754.75 submitted lowest bid to Board of Education, 104 Administration Bldg., to furnish curtains and drapes for Fremont High School.
 Following is a complete list of bids:
 E. F. Shearer, San Francisco \$1,754
 Fred Turner Co., S. F. 1,845
 C. F. Weber Co., S. F. 1,880
 (Alternate) 1,682
 Western Scenic Co., S. F. 2,064
 John Brenner, San Francisco 2,100
 C. L. Robinson Co. 2,182
 Bids held under advisement.

BANKS, STORES & OFFICES

Sub-Bids Wanted.
BANK Cost, \$25,000
HOLLISTER, San Benito Co., Cal.
 One-story reinforced concrete bank.
 Owner—Bank of America.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Daniel Hayes, general contractor, 22 Brady St., San Francisco, desires sub-bids on all portions of the work in connection with above, for which general contract bids are to be opened April 27.

Contract Awarded — Sub-Bids Being Taken.
LOS BANOS, Merced Co., Cal.
 One-story brick bank and store (90x 85 feet).
 Owner—Elmer Stone.
 Architect—W. W. Harper, 251 Kearny St., San Francisco.
 Contractor—Monson Bros., 475 6th St., San Francisco.

To Take Bids Within Few Days (Revised Plans).
STAKE Cost, \$100.0
OAKLAND, Alameda Co., Cal
 One-story and basement Class C steel frame, concrete and hollow tile 2nd partment store.
 Owner—Isadore Weinstein, 1041 Market St., San Francisco.
 Architect—Wm. Knocies, 1214 Webster St., Oakland.

Preparing Working Drawings.
REMODELING Cost, \$—
NAPA, Napa Co., Cal.
 Second Storets.
 Remodel present building for bank.
 Owner—Bank of America.
 Architect—H. A. Minton, Bank America Bldg., Eddy and Power Sts., San Francisco.
 Bids will be taken in about one week.

Sub Contracts Awarded
BANK Cost, \$60.0
LOS GATOS, Santa Clara Co., Cal
 Main St. and Santa Cruz Avenue (52x100-ft.)
 One-story reinforced concrete bar with tile roof (ornamental stucco and accoustical plaster).
 Owner—Bank of America.
 Architect—H. A. Minton, Bank America Bldg., Eddy and Power Sts., San Francisco.
 Contractor—Jacks and Irvine, 74 N. Montgomery St., San Francisco.
 Mill Work—Pacific Mfg. Co., Monadnock Bldg., San Francisco.
 Crn, Iron—Federal Orn. Iron & Bronze Works, 16th & San Bruno, San Francisco.

Glass—W. P. Fuller Co., 301 Mission St., San Francisco.
 Plastering—James F. Smith, 271 Minna St., San Francisco.
 Bank Fixtures—S. Kulchar & Co., 10th St. & 8th Ave., Oakland.
 Marble—Jos. Musto Sons Keenan Co., 535 North Point St., San Francisco.
 As prev. rep.
 Plumbing & Heating—Dowd & Welch 3558 16th St., San Francisco.
 Steel Forms—Steel-Form Contracting Co., Monadnock Bldg., San Francisco.
 Electrical Work—Roy Davenport, Los Gatos.
 Wrecking—Awarded to S. Jose Wrecking & Bldg. Supply Co., San Jose structural steel to Judson-Pacific Co., 609 Mission St., San Francisco.
 There will be two stores, 20x72 feet in connection with the building. Sub-bids are being taken on other portions of the work.

Lathing and Plastering Contract Awarded.
BANK Cost, \$200.00
MONTEREY, Monterey Co., Cal.
 Location not selected.
 One-story and mezzanine steel frame and concrete bank with tile roof.
 Owner—Monterey County Trust and Savings Bank.
 Architect—H. H. Winner Co., 550 Market St., San Francisco.
 Mgr. of Const.—Mary Finalyson, care architect.
 Lathing and Plastering—George Frick, 836 Fulton St., San Francisco.
 Other awards reported April 13, 1931.

Contract Awarded.
STORE Cost, price, \$14,916
BURLINGAME, San Mateo Co., Calif.
 Laguna Avenue and Broadway.
 One-story reinforced concrete store (3 stores).
 Owner—Marion Stelling and E. L. Gould, 155 Montgomery St., San Francisco.
 Architect—Bertz, Winter and Maurzy, 210 Post St., San Francisco.
 Contractor—Chas. Pedersen, 734 Prospect Road, San Mateo.

Sub-Contracts Awarded.
BANK Cost, \$75,000
SAN MATEO, San Mateo Co., Calif.
 B Street and Third Ave. (110 ft. frontage).
 one-story concrete bank.
 owner—Bank of America.
 architect—H. A. Minton, 525 Market St., San Francisco.
 contractor—Young & Horstmeyer, 461 Market St., San Francisco.
lectrical—Atlas Electric Co., 343 4th St., San Francisco.
Structural Steel—Golden Gate Iron Works, 1541 Howard Street, San Francisco.
 As previously reported, grading contract awarded to H. V. Tucker, 300 Vermont St., San Francisco.

Plans Being Figured—Bids Close April 27th, 3 P. M.
TORRE Cost, \$20,000
ACIFIC GROVE, Monterey Co., Calif.
 one-story and mezzanine floor reinforced concrete department store.
 owner—Rose Bros., Pacific Grove.
 architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

Contract Awarded.
TORRE Cost, \$6,000
SAN JOSE, Santa Clara Co., Calif.
 12th and Sutter St.
 one-story class C store.
 owner—Cimino Bros., 84 N First St., San Jose.
 architect—Wolfe & Higgins, 19 2nd St., San Jose.
 contractor—Vincent Maggio, 452 No. 15th St., San Jose.

Contract Awarded.
ALTERATIONS Cost, \$7,000
OAKLAND, Alameda Co., Calif. NE 12th and Washington Sts.
 alterations to store.
 owner—Foreman & Clark, 12th and Washington Sts., Oakland.
 architect—H. K. Knauer, Los Angeles
 contractor—C. D. DeVelbiss, 354 Hartford St., Oakland.

Bids Opened.
OFFICE BLDG. Cost, \$—
SAN LUIS OBISPO, San Luis Obispo Co., Calif.
 one-story concrete and brick and wood frame interior office building (tile roof; 6500 sq. ft. area).
 owner—State of California.

Plans by Division of Architecture, State Department of Public Works
 Public Works Bldg., Sacramento.
 Following is a complete list of bids:
General Work

W. J. Smith, San Luis Obispo.....	\$21,929
R. Hodgson, Porterville.....	22,375
Wigg Const. Co., Redondo.....	23,250
The M. Co., Mt. View.....	23,500
Johnson & Hanson, Santa Barbara.....	24,224
Sullivan & Sullivan, Oakland.....	24,489
Theo. Main, San Luis Obispo.....	24,617
R. O. Summers, San Jose.....	24,821

Heating

Thos. Haverty, Los Angeles.....	\$2,342
W. H. Robinson, Los Angeles.....	2,440
T. C. Douglass, San Francisco.....	2,600
Geo. C. Bell, Oakland.....	2,753
F. W. Snook, San Francisco.....	2,850
Carl T. Doell, Oakland.....	2,899
W. A. Aschen, Oakland.....	2,995

Electrical Work

California Elec. Co., Santa Barbara.....	\$1,196
Gullbert Bros., San Jose.....	1,316
Clines Electric Shop, San Luis Obispo.....	1,449
NePape-McKenney, Oakland.....	1,473

Plumbing

Carl T. Doell, Oakland.....	\$2,054
J. A. Fazio, Oakland.....	2,875
Thos. Haverty, Los Angeles.....	3,130
American Engineer & Contractor, Los Angeles.....	3,219
W. H. Robinson, Monterey Park.....	3,248
Bids held under advisement.	
F. W. Snook, San Francisco.....	3,500

Plans Being Figured—Bids Close April 22, 11 A. M.
STORE Cost, \$100,000
OAKLAND, Alameda Co., Cal. Broadway.
 one-story and basement Class C steel frame, concrete and hollow tile department store.
 owner—Isadore Weinstein, 1041 Market St., San Francisco.
 architect—Wm. Knowles, 1214 Webster St., Oakland.

Sub-Bids Being Taken.
ALTERATIONS Cost, \$10,000
SAN FRANCISCO, Mission Street bet. 5th and 6th and 6th and 7th Sts.
 Remodel three frame store buildings.
 owner—Somers Properties.
 architect—Albert Evers, 525 5 Market Street.
 contractor—G. P. W. Jensen, 320 Market Street.

Sub-Bids Wanted.
BANK Cost, \$25,000
HOLLISTER, San Benito Co., Cal.
 one-story reinforced concrete bank.
 owner—Bank of America.
 architect—H. A. Minton, 525 Market St., San Francisco.
 Reevy & Spivock, general contractors, Shell Oil Bldg., San Francisco, desire bids on all portions of the work in connection with above, for which general contract bids will be opened April 27th.

THEATRES

Contract Awarded.
THEATRE Cost, \$—
INGLEWOOD, Los Angeles Co., Cal. Market Street.
 Theatre building (to seat 900).
 owner—United Artists Theatres of California.
 architect—Walker & Eisen and C. A. Balch, Western Pacific Bldg., Los Angeles.
 contractor—Henry I. Beller Constr. Co., 6513 Hollywood Blvd., Los Angeles.

Contract Awarded.
THEATRE Cost, \$75,000
LOS ANGELES, Cal. Whittier Blvd. and Woods Avenue.
 Reinforced concrete theatre and store building.
 owner—United Artists Theatres of California.
 architect—Walker & Eisen and C. A. Balch, Western Pacific Bldg., Los Angeles.
 contractor—Henry I. Beller Constr. Co., 6513 Hollywood Blvd., L. A.

WALNUT CREEK, Contra Costa Co., Cal.—RCA Photophone, Inc., New York City, awarded contract by Theo. Burling, manager of the Ramona Theatre, to install sound producing equipment in that structure.

Plans Being Figured.
THEATRE Cost, \$100,000
WHITTIER, Los Angeles Co., Calif. Greenleaf Avenue.
 Reinforced concrete class A theatre (14x50-ft.; to seat 1000).
 owner—A. Wardman.
 lessee—Hughes-Franklin Theatres Co.
 architect—David S. Bushnell, Warner Bros. Theatre Bldg., Whittier.

SOUTH GATE, Los Angeles Co., Cal.—Gore Brothers, West Washington St., Los Angeles, have leased property on the south side of Santa Ana St., east of Long Beach Blvd., South Gate, where they propose erecting a motion picture theatre with seating capacity of 1400. The site is 248x151 feet in area. It is understood that United Artists Theatres of California will lease the theatre. Walker & Eisen and C. A. Balch, 1117 Western Pacific Bldg., are architects for United Artists.

Plans Being Prepared.
THEATRE Cost, \$85,000
INGLEWOOD, Los Angeles Co., Cal. Market, Kelso and Hillcrest.
 Class A theatre (to seat 1400).
 owner—Jesse E. Jones, Denver, Colo.
 architect—Max Dreblin, 819 S Western Ave., Los Angeles.
 contractor—Hart Bros. Const. Co., 819 S Western Ave., Los Angeles.

WHARVES AND DOCKS

Contract Awarded.
ALTERATIONS Cont. price, \$105,524
SAN FRANCISCO, On Waterfront.
 Raise and reconstruct bulkhead wharf structures at Sections 9A and 9B of the seawall.
 owner—State of California (Harbor Commission), Ferry Bldg.
 engineer—Frank White, Ferry Bldg.
 contractor—M. B. McGowan, 74 New Montgomery Street.

Complete Bid Listing

M. B. McGowan.....	\$105,524
Barrett & Hill.....	107,729
A. W. Kitchen.....	107,747
Healy-Thibbitts Co.....	112,798

Contract Awarded.
FERRY SLIP Cost Approx, \$90,000
SAN QUENTIN, Marin Co., Cal. End of San Quentin Pier.
 Ferry slip (235 ft. in length) (Standard S. F. Bay Ferry Slip) Crosotreated wood piles.
 owner—Richardson-San Rafael Ferry Co., 564 Market St., San Francisco.
 engineer—James Walsh, 112 Market St., San Francisco.
 contractor—A. W. Kitchen, 110 Market St., San Francisco.

Plans Approved.
REPAIRS Cost, \$—
OAKLAND, Alameda Co., Cal. Outer Harbor (Alber Bros. Milling Dock)
 Repairs to dock.
 owner—City of Oakland (Port Commission), 424 Oakland Bank Bldg., Oakland.
 architect—Eng. Dept. of Owner.

OAKLAND, Cal. — Healy-Thibbitts Construction Co., 64 Pine St., San Francisco, at \$271,84 awarded contract by City Port Commission to furnish and drive green timber piles for foundations for Warehouse AA, involving 4300 lin ft. piling. Complete list of bids follow:
 Healy-Thibbitts Constr. Co.....\$271.84
 Sullivan & Sullivan, Oakland.....3020.23
 Duncanson-Harrelson Co., San Francisco.....3091.29
 Ben C. Gerwick, S. F.....3634.81
 M. B. McGowan, S. F.....4376.82
 A. W. Kitchen, S. F.....4699.55

FORT SCOTT, Calif.—Constructing Quartermaster, Fort Mason, will ask bids shortly for repairs to Torpedo Dock at Fort Scott. Funds are available.

MISCELLANEOUS CONSTRUCTION

Contract Awarded.
ALTERATIONS Cost, \$—
SAN FRANCISCO, Pierce and Sutter
 Remodel ice skating rink.
 owner—Ice Skating Association.
 architect—A. A. Cantin, 54 Market St., San Francisco.
 contractor—Young & Horstmeyer, 461 Market St., San Francisco.

Contract Awarded.
STUDIO Cost, \$—
CULVER CITY, Los Angeles Co., Cal. Frame and stucco studio scene dock (120x225 feet).
 owner—RKO Pathe Studio.
 architect—Eng. Dept. of Owner.
 contractor—Myers Bros., 3407 San Fernando Road, Los Angeles.

Engineering News Section

BRIDGES

YUBA COUNTY, Cal.—Construction of two bridges, one to span the Feather river between Marysville and Yuba City and another to cross the Yuba River south of Marysville, are favorably reported upon by the Senate Highway Committee.

ORANGE COUNTY, Cal.—Until May 13, 2 P. M., bids will be received by State Highway Commission to construct bridge across Santa Ana River about 2 miles north of Newport Beach, consisting of three 60-ft. 3-in. steel truss spans to be replaced with concrete girder spans and widening the reinforced concrete girder approach spans consisting of two 21-ft. 0-in. spans, eight 30-ft. 0-in. spans and two 21-ft. 0-in. spans.

SANTA BARBARA COUNTY, Cal.—Until May 13, 2 P. M., bids will be received by State Highway Commission to remove deck of the seven 164 ft. 6 in. through steel truss spans of the bridge across the Santa Ynez River about 1 mile south of Buellton and constructing laminated timber floor and surfacing with bituminous macadam.

MERCED, Merced Co., Cal.—T. E. Clark, 420 23rd St., Merced, at \$3250 awarded contract by county supervisors to reconstruct floor system on steel portion of Cox Ferry bridge over Merced river on the Cox Ferry road. Complete list of bids follow:

T. E. Clark, Merced	\$3250
George Owens, Petaluma	3479
T. A. Wayne, Merced	3575
C. B. Camerson & Sons	3580
Whited & Whited	3682
C. C. Disney, Merced	3997
E. K. Angle, Dos Palos	4061
Liner & Allen, Merced	4501
Manuel Soto, Redwood City	4603

MERCED, Merced Co., Cal.—T. E. Clark, 420 23rd St., Merced, at \$2,150 awarded contract by county supervisors to construct timber bridge No. 229 over Dry Creek on the Amsterdam and Ryer Road. Complete list of bids follow:

T. E. Clark, Merced	\$2150
T. A. Wayne, Merced	2275
E. K. Angle, Dos Palos	2677
C. C. Disney, Merced	2732
Geo. Owens, Petaluma	2909
Whited & Whited, San Rosa	2942
Liner & Allen, Merced	2982
Manuel Soto, Redwood City	3109
E. W. Peterson, San Francisco	3460

SANTA CRUZ, Santa Cruz Co., Cal.—City council and county supervisors are considering the construction of a new bridge over Wood's Lagoon at the city limits on East Cliff Drive. The cost would be borne equally by the city and the county. Roy Fowler is city engineer of Santa Cruz and Lyod Bowman, county surveyor.

LOS ANGELES, Cal.—A conference between Los Angeles County officials and officials of Seal Beach has resulted in an effort to reduce the estimated cost of proposed bridge across Alamitos Bay. A tentative plan, estimated to reduce the cost to about \$100,000, retains the railroad trestle over the entrance to the bay. The expense may be divided between Los Angeles and Orange Counties.

SANTA BARBARA COUNTY, Cal.—As previously reported, bids will be received May 13 by State Highway Commission to remove deck of the seven 164 ft. 6 in. through steel truss spans of the bridge across the Santa Ynez River about 1 mile south of Buellton and constructing laminated timber floor and surfacing with bituminous macadam. Project involves:

- (1) 44,000 cu. yds. roadway excavation without class;
 - (2) 306,000 sta. yds. overhaul;
 - (3) 1450 cu. yds. structure excavation;
 - (4) 4735 tons crusher run base;
 - (5) 1500 tons broken stone (bituminous macadam surface);
 - (6) 82 tons asphaltic road oil (bituminous macadam surface);
 - (7) 185 cu. yds. class A Portland cement concrete (structures);
 - (8) 18,500 lbs. bar reinf. steel (structures);
 - (9) 110 lin. ft. 8-in. corr. metal pipe
 - (10) 670 lin. ft. 12-in. corr. metal pipe
 - (11) 402 lin. ft. 18-in. corr. metal pipe
 - (12) 70 lin. ft. 24-in. corr. metal pipe
 - (13) 363 lin. ft. 15-in. vitrified pipe;
 - (14) 180 each, removing trees (size 1);
 - (15) 110 each, removing trees (size 2)
 - (16) 22 each, removing trees (size 3)
 - (17) 167 sq. yds. paved gutter;
 - (18) 18 cu. yds. rubble masonry;
 - (19) 104 cu. yds. concrete removed from existing pavement;
 - (20) 2500 lin. ft. laminated timber guard rail;
 - (21) 20 each, culvert markers;
 - (22) 2 miles new property fences;
 - (23) 25 each, gates complete in place;
 - (24) 54 stations finishing roadway;
 - (25) 24 each, monuments complete in place.
- The state will furnish corrugated metal pipe, spillway assemblies and cast steel frames and covers for drop inlets.

ORANGE COUNTY, Cal.—As previously reported, bids will be received May 13 by State Highway Commission to construct bridge across Santa Ana River about 2 miles north of Newport Beach, consisting of three 60-ft. 3-in. steel truss spans to be replaced with concrete girder spans and widening the reinforced concrete girder approach spans consisting of two 31-ft. 0-in. spans, eight 30-ft. 0-in. spans and two 21-ft. 0-in. spans.

- (1) 1 only, detour bridge, complete;
- (2) 550 cu. yds. structure excavation;
- (3) 2500 cu. yds. roadway embankment (detour);
- (4) 1200 tons crushed gravel or stone (detour surfacing);
- (5) 200 bbls. heavy fuel oil (detour);
- (6) 3 existing steel truss spans to be removed;
- (7) 300 cu. yds. concrete in existing bridge to be removed;
- (8) 1289 lin. ft. 16-in. reinf. concrete piles;
- (9) 950 lin. ft. 13-in. reinf. concrete piles;
- (10) 100 cu. yds. class A Portland cement concrete (placed by tremie);
- (11) 1000 cu. yds. class A Portland cement concrete (structure);
- (12) 38 cu. yds. class E Portland cement concrete;
- (13) 224,000 lbs. reinf. steel;
- (14) 5400 lbs. cast steel rockers and bearings;
- (15) 615 lbs. bronze expansion plates;
- (16) 420 tons asphalt concrete;
- (17) 1 lot miscellaneous items of work

EUREKA, Humboldt Co., Cal.—As previously reported, bids will be received May 12, 2 P. M., by Fred M. Kay, county clerk, to construct a reinforced concrete bridge over the No Fork of the Mattole river at Petrolia. Structure will be 88 ft. in length over all. Project involves:

- (a) 53 yds. class B concrete;
 - (b) 111 yds. class A concrete.
- Specifications obtainable from F. E. Kelly, county surveyor. Certified check \$5 required with bid.

EUREKA, Humboldt Co., Cal.—As previously reported, bids will be received May 12, 2 P. M., by Fred M. Kay, county clerk, to construct a reinforced concrete bridge across Eaton Slough near Ferndale. Will be 90 ft. in length. Project involves 145 yds. class A concrete.

Specifications obtainable from F. E. Kelly, county surveyor. Certified check \$5 required with bid.

REDWOOD CITY, San Mateo Co., Cal.—See "Streets and Highways." In this issue. Contract awarded to W. O. Tyson, Redwood City, to construct bridge and improve Main St.

SAN DIEGO COUNTY, Cal.—David Johns, Santa Monica, at \$133,678 submitted low bid April 22 to State Highway Commission to construct a reinforced concrete girder bridge across San Dieguito River about one mile north of Del Mar, consisting of eleven 54-ft. spans on concrete piers and abutments with wing walls, all on pile foundations. Following is a complete list of bids:

David Johns, Santa Monica	\$133,678
J. F. Knapp, Oakland	139,600
Merritt-Chapman & Scott, San Francisco	139,900
Bodenhammer Const. Co., Oakland	140,657
H. M. Baruch Corp., L. A.	143,757
Macco Const. Co., Clearwater	147,579
Oberg Bros., Los Angeles	147,842
D. E. Metzger, Los Angeles	151,810
E. R. Bishop, Long Beach	154,379
R. H. Travers, Los Angeles	157,485
Lynch-Cannon Eng. Co., L. A.	157,825
Owl Truck Co., Inc., Compton	164,844
Robinson-Roberts Co., L. A.	166,869
B. B. Boyd, Los Angeles	179,064

PLACER COUNTY, Cal.—George J. Ulrich Const. Co., Modesto, at \$18,973 submitted low bid April 22 to State Highway Commission to construct a reinforced conc. girder bridge across Coon Creek, 3.6 miles north of Lincoln, consisting of six 34-ft. 6-in. spans on reinforced concrete pile bents. Following is a complete list of bids:

Ulrich Const. Co., Modesto	\$18,973
Holdener Const. Co., Sacramento	20,906
A. T. Howe, Santa Rosa	21,193
P. F. Bender, North Sacto.	21,405

PALO ALTO, Santa Clara Co., Cal.—City Council's Committee on Public Works and the Board of Public Works acting jointly, have approved general plans for the proposed subway at the Embarcadero Road. The plans were prepared by engineers of the Southern Pacific Railroad in collaboration with the city engineer's office. Plans call for a structure with four vehicular lanes, two 12-ft. sidewalks, and a 40-ft. bridge over Alma St. The cost is estimated at slightly below \$140,000.

with the city bearing about two-thirds of the expense, the remainder, \$46,800, to be assumed by the railroad company. J. F. Byxbee is city engineer of Palo Alto.

MADERA COUNTY, Cal.—Thermott Const. Co., 580 Stockton Ave., San Jose, at \$30,734 awarded contract by State Highway Commission to construct a reinforced concrete girder bridge across Berenda Slough, consisting of eighteen 26-ft. 6-in. spans on concrete pile bents. Complete list of unit bids published in issue of Mar. 21.

PETALUMA, Sonoma Co., Calif.—City council is considering early construction of a bridge over the river in D street; estimated cost \$75,000, of which \$15,000 is available from the river and waterfront fund.

DREDGING, HARBOR WORKS & EXCAVATIONS

LONG BEACH, Cal.—Specifications for dredging 400,000 cu. yds. material in the Long Beach Outer Harbor, are being completed by the Harbor Engineer, Maj. R. G. McGlone. The material will be dredged from the turning basin for use at Piers A and B. Bids will be called within the next few weeks.

SAN FRANCISCO.—Public Works Officer, 12th Naval District, 100 Harrison St., will ask bids in the immediate future for dredging at Goat Island, San Francisco Bay.

OAKLAND, Alameda Co., Cal.—Until 4:30 P. M., April 20, bids will be received by G. B. Hegardt, secty., City Port Commission, 424 Oakland Bank Bldg., to furnish and drive green timber piles for foundation for warehouse A4, Outer Harbor Terminal. Estimated cost \$2500. Project involves 6200 linear feet of piling. Certified check for 10% of bid required. Plans obtainable on deposit of \$5. Bond in full amount required of successful bidder.

SAN FRANCISCO.—Bids will be asked shortly by the U. S. Engineer Office, Customhouse, for removing 39,800 cubic yards of rock from San Francisco Bay.

SEWARD, Alaska.—Until April 29, bids will be received by V. S. Engineer Office, Seattle, for dredging of refuge at Seward, involving 126,000 cu. yds. silt and sand. Specifications obtainable from above.

STOCKTON, San Joaquin Co., Cal.—Hydraulic Dredging Co., Ltd., Central Bank Bldg., Oakland, at \$1.16 cu. yd. submitted low bid to city council for dredging 188,000 cu. yds. of material from city-owned property on the south side of Stockton Channel in the Boggs Tract. San Francisco Bridge Co. only other bidder at \$1.17 1/2 cu. yd. Taken under advisement.

IRRIGATION PROJECTS

Preliminary Plans Approved.
POLICE STATION Cost, \$60,000
SAN FRANCISCO. Golden Gate Park. Police Station.
Owner—City and County of San Francisco—Weeks and Day, Financial Center Bldg.
Working drawings are started.

Plans Being Prepared.
REPAIRS Cost, \$—
SAN ANDREAS, Calaveras Co., Cal. Repairs to county jail.
Owner—County of Calaveras, John Squellati, county clerk, San Andreas.

Plans by Oliver C. Wyllie, San Andreas.

Plans Being Prepared.
LAVATORY Cost, \$—
SAN ANDREAS, Calaveras Co., Cal. Lavatory installation in courthouse.
Owner—County of Calaveras, John Squellati, county clerk, San Andreas.
Plans by Oliver C. Wyllie, San Andreas.

STREET LIGHTING SYSTEMS

SAN FRANCISCO.—Until April 29, 2:30 P. M., bids will be received by S. J. Hester, Secretary, Board of Public Works, to construct ornamental street lighting system in Junipero Serra Blvd. Specifications obtainable from Bureau of Engineering, 2rd Floor, City Hall.

SAN FRANCISCO.—Until May 6, 2:30 P. M., bids will be received by S. J. Hester, Secretary, Board of Public Lighting system in 19th Ave. Extension. Specifications obtainable from Bureau of Engineering, 3rd Floor, City Hall.

SAN FRANCISCO.—R. Flatland, 899 Mission St., at \$9,489 awarded contract by Board of Public Works to install ornamental street lighting system in Lower Road of Great Highway and on Laguna Honda Blvd., involving erection and assembling of 75 ornamental concrete standards, including underground system. City will furnish standards.

MACHINERY AND EQUIPMENT

BAKERSFIELD, Kern Co., Cal.—Until 7:30 P. M., May 4, bids will be received by Wm. Gleason, Clerk Kern Co. Union High School Dist., for one bus chassis and one bus body. Specifications on file at principal's office.

OAKLAND, Cal.—Until May 4, 5:30 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., to furnish and deliver one industrial-type tractor. Specifications obtainable from above.

COALINGA, Fresno Co., Cal.—Until May 4, 5 P. M., (to be opened 7:30 P. M.) bids will be received by E. J. McCroskey, city clerk, to furnish and deliver one 1 1/2-ton, 6-cylinder truck, equipped with dual tires on rear, 157-inch wheel base, also a steel dump body to be mounted on truck, including hand hoist. Certified check 10% required with bid. Specifications on file in office of clerk.

OAKLAND, Cal.—Schramm, Inc., 75 Fremont St., San Francisco, at \$1076.50 awarded contract by East Bay Municipal Utility District, to furnish one portable electric welder.

OAKLAND, Calif.—City Port Commission rejects bids to furnish and install 10-ton cargo hoist for use at Inland Waterways Terminal. New bids will probably be asked. Bids were: Colby Steel Engineering Co., Seattle, \$10,475; Otis Elevator Co., San Francisco, \$14,855.

OXNARD, Ventura Co., Cal.—Until 8 P. M., April 28, bids will be received by city council to furnish one cylinder motor truck, 50 hp. or equal. Specifications follow: Wheelbase, 109 inches, semi-floating rear axle, 8 leaves front and rear springs, capacity 3/4-ton, fully equipped, including front bumper and extra tire. Body—56 in. long, 45 in. wide and 13 in. high, steel construction. Bidder to stipulate allowance for old Ford truck. Frank B. Pettis, city clerk.

MERCED, Merced Co., Cal.—Until May 7, 8 P. M., bids will be received by N. S. Peck, clerk, Merced Union High School District, to furnish and deliver one 45-passenger school bus, to be built on Dodge Brothers 3-ton chassis lengthened to approximately 230-inch wheel base. Tire equipment to be 34x7.50 truck balloon with dual equipment on Budd also rear wheels. One 35-passenger school bus to be built on Ford Model AA chassis lengthened to approximately 208-inch wheel base. Tire equipment to be 32x 6 with dual tires on rear wheels. Certified check 10% required with bid. Further information obtainable from clerk.

RAILROADS

SANTA CRUZ, Santa Cruz Co., Cal. San Juan Railway Co., Inc., capitalized for \$1,500,000, has filed articles of incorporation, with the county clerk. The company plans construction of a railroad from Hollister in San Benito County to San Juan and from there to Chittenden, Santa Cruz county, in addition to the construction of telegraph lines. The distance is 30 miles. Directors are: F. L. Brown, H. C. Stratton and Jesse E. Lillenthal, all of San Francisco and C. E. Ladd of Portland, Ore., and Gustav Baumann and H. P. Wilson of New York City.

FIRE EQUIPMENT

OAKLAND, Cal.—Until April 30, 12 noon, bids will be received by Frank C. Merritt, city clerk, for crossing improvement at East 10th st. over the right of way of the Southern Pacific between 46th and 47th aves. Estimated cost \$5,250. Project involves:
(1) 240 3H 90-lb. guard rails 31 ft. G.T.
(2) 24 90-lb. insulated gauge rods;
(3) 60 90-lb. separators;
(4) 1 C. S., 13 sign;
(5) 2 wig-wags complete with 2 train indicators;
(6) 8 seam-weld joints;
(7) 1,170 sq. ft. 6-in. asphaltic pavement.

Specifications on file in office of city clerk. Walter N. Frickstad, city engineer.

RESERVOIRS AND DAMS

MODESTO, Stanislaus Co., Cal.—City voters reject the proposal to dam the Tuolumne river and create a recreation center for the municipality. The proposal lost by 96 votes.

SEATTLE, Wash.—Until May 1, 10 A. M., bids will be received by W. H. Roberge, secretary, Board of Public Works to construct concrete lined reservoir and concrete foundations for two steel tanks, in vicinity of Sixth Avenue, southwest and Cloverdale St. Project involves 4,750,000 gal. reservoir and two standpipes, each with a capacity of 1,000,000 gallons. Certified check or bond of 5% payable to City Comptroller required with bid. Specifications obtainable from secretary on deposit of \$10, returnable.

BOULDER CITY, Nev.—Crucible Steel Co. of America awarded contract by Six Companies, Inc., contractor for the Hoover Dam, to supply all drill steel used on the dam.

CLE ELUM, Wash.—Plans and specifications for the Cle Elum Dam are being completed by the U. S. Bureau of Reclamation under the direction of S. O. Harper, Acting Chief Engineer, Bureau of Reclamation, Denver, Colorado. Copies will be ready for prospective bidders about May 20. The proposed dam will be an earth-gravel structure, 125 ft. in

height, and containing about 450,000 cu. yds. material. The estimated cost of the project is \$3,500,000.

PIPE LINES, WELLS, ETC.

SAN FRANCISCO—Until May 6, 2:30 P. M., bids will be received by Board of Public Works to construct a pipe line across the San Joaquin Valley to serve as an emergency supply line from Hetch Hetchy via the Altamont Pass. The line will be about 46 1/2 miles in length and will cost between \$7,000,000 and \$7,500,000, exclusive of the Red Mountain siphon, to cost and additional \$250,000.

Bids will be received for the project in three sections, designated A, B and C. Separate contracts may be awarded for individual sections or any two sections, or all. Specifications obtainable from the Bureau of Engineering, 3rd floor, City Hall, on deposit of \$50. Complete list of the quantities of materials involved on this project will be listed in tomorrow's issue.

LOS ANGELES, Cal.—Santa Fe Pipe & Supply Co. submitted low bid to City purchasing agent, Thomas Oughton, at \$41.80 per hundred ft. for furnishing wrought steel pipe for the department of water and power, in accordance with specification No. 2422, involving approximately 7500 lin. ft. 4-in. standard black asphaltum dipped, lap weld-d, wrought steel pipe.

LOS ANGELES, Cal.—California Pipe & Supply Co., Los Angeles, at \$42.72 submitted low bid to City Purchasing Agent to furnish asphaltum dipped, seamless or lap welded steel pipe for the department of water and power under Specification No. 2423, involving approximately 3000 lin. ft. of 8-in. nominal diameter pipe.

LOS ANGELES, Cal.—Western Pipe & Steel Co. awarded contract by city purchasing agent, for furnishing welded steel pipe under Specification No. 2415. The items are:
(1) 5615 lin. ft. 24-in. laying lengths, 40 in. inside diameter, welded steel water pipe; minimum wall thickness 3/8 in.;
(2) same as item one, except that end sections shall be B & S.
The bid was: (1) \$5.45; (2) \$6.35.

SEWERS AND SEWAGE DISPOSAL PLANTS

OAKLAND, Cal.—City council sets May 12 as the date to vote bonds of \$3,850,000 of which \$1,300,000 is to finance construction of sanitary and storm sewers in various sections of the city. Walter N. Frickstad, city engineer.

MODESTO, Stanislaus Co., Cal.—City voters reject proposal submitted at recent municipal election to authorize adoption of ordinance appropriating \$25,000 annually to finance construction of storm sewers. The proposal was rejected by a vote of 1369 for and 1355 against.

OAKLAND, Cal.—City council sets May 12 as the date to vote bonds of \$300,000 to finance park and recreation improvements and \$500,000 for improvements at Lake Merritt for a recreation center.

SAN LUIS OBISPO, San Luis Obispo Co., Cal.—See "Government Work and Supplies", this issue. Bids wanted for construction at National Guard Training Camp, including extensions to sewer, water and electric systems.

LAS VEGAS, Nev.—An election will be held May 5 to vote on a \$160,000 bond issue to provide funds for the construction of a sewerage system and a disposal plant. Viola Burns, City Clerk.

GONZALES, Monterey Co., Cal.—Geo. DeGolyer, Federal Telegraph Bldg., Oakland, at \$27,736 using Dorr equipment, awarded contract by Gonzales Sanitary District, to construct sewer mains, outfall and separate sludge digestion plant, involving in the main:
600 lin. feet 8-in. sewer;
2400 lin. ft. 10-in. sewer;
19,700 lin. ft. 12-in. sewer;
21 manholes;
450 cu. yds. excavation for treatment plant structures;
125 cu. yds. concrete;
11,000 lbs. reinf. steel;
clarifier equipment, sludge pump, blumpson, etc.

Following is a complete list of bids received:
(1) Using Dorr Equipment;
(2) Using Hardinge Equipment.
Geo. DeGolyer, Oakland, (a) \$27,736; (b) \$25,186.
Oakland Sewer Construction Co., (a) \$28,558; (b) \$29,258.
W. T. Tobin, Oakland, (a) \$31,630; (b) \$32,408.
O. U. Miracle, San Jose, (a) \$31,751; (b) \$32,559.
C. E. Cowden, San Francisco, (a) \$34,890; (b) \$34,950.
R. H. Crummeys, San Jose, (a) \$35,215; (b) \$35,842.
Robert McNair, Oakland, (a) \$35,299; (b) \$35,966.
P. & H. Construction Co., San Jose, (a) \$39,500; (b) \$39,500.

GONZALES, Monterey Co., Cal.—Oakland Sewer Construction Co., Lakeside Hotel, Oakland, at \$15,688 awarded contract by Gonzales Sanitary District to construct lateral sewers involving in the main:
5,746 lin. ft. 8-in. sewer;
11,802 lin. ft. 6-in. sewer;
516 wye branches;
55 manholes;
5 lampholes.
Complete list of bids follows:
Oakland Sewer Const. Co. \$15,688
Geo. DeGolyer, Oakland 15,995
R. H. Crummeys, San Jose 17,496
P. & H. Const. Co., San Jose 19,300
C. E. Cowden, San Francisco 19,369
W. J. Tobin, Oakland 19,624
Robt. McNair, Oakland 21,530
O. U. Miracle, San Jose 27,387

SAN FRANCISCO—Louis J. Cohn, 1 De Haro st., at \$13,673 awarded contract by Board of Public Works to construct additions to the Baker and Pierce Street Outfall Sewers, \$4,000; Baker Street sewer \$9,673.

FOLSOM, Sacramento Co., Cal.—Water Works Supply Co., 501 Howard St., San Francisco, at \$60,000 awarded contract by State Department of Public Works to install sewage aerators at the Folsom State Prison.

CONCORD, Contra Costa Co., Cal.—Bids will be asked shortly by city council to furnish and install sewage pumping system; estimated cost \$2500.

SUNNYVALE, Santa Clara Co., Cal.—C. J. Kennedy, engineer, City Bldg., San Francisco, is addressing civic organizations in this vicinity pointing out the need of a sewage disposal plant south of the proposed Naval Dirigible Base site at Sunnyvale, to serve a sanitary district to comprise Sunnyvale and nearby communities including possibly Los Gatos and Saratoga.

STOCKTON, San Joaquin Co., Cal.—Until April 27, 5 p. m., bids will be received by E. L. Trahern, city clerk, to construct storm water sewers in portions of Edison, San Joaquin and Center streets. Project involves:
(1) 183 lin. ft. 8-in. dia. vit. clay or precast conc. sewer pipe (encased in concrete);
(2) 52 lin. ft. 8-in. vit. clay or precast concrete sewer pipe (encased in concrete);
(3) 604 lin. ft. 10-in. vit. clay or precast concrete sewer pipe including 2-(10"x3") "Y" branches and 2-(8-in. dia.) curves.
(4) 353 lin. ft. 12-in. vitrified clay or precast concrete sewer pipe.
(5) 751 lin. ft. 18-in. vitrified clay or precast concrete sewer pipe including 3-(18"x3") "Y" branches and 3-(8-in. dia.) curves.
(6) 78 lin. ft. 18-in. vitrified clay or precast concrete sewer pipe (encased in concrete).
(7) 100 lin. ft. No. 10 gauge double dipped Aruco Corrugated Galvanized Iron pipe (18-in. dia.).
(8) 195 lin. ft. 21-in. vitrified clay pipe or precast concrete sewer pipe.
(9) 5 Catchbasins complete.
(10) 1 5-ft. trick manhole complete.
(11) 1 existing manholes to be deepened.

Bidders may bid on either vitrified clay sewer pipe or precast concrete sewer pipe but shall not base their bid upon any sewer pipe having an internal diameter smaller than that herein specified.
Bidders bidding on catchbasins may bid on either brick catchbasins or concrete catchbasins.
Plans obtainable from Lyle Payton, city engineer.

REDWOOD CITY, San Mateo Co., Cal.—San Mateo County Boy Scouts organization has requested the county supervisors to provide proper sewer facilities for Memorial Park near Pescadero. County Engineer Jas. S. James instructed to prepare estimates of cost.

STOCKTON, San Joaquin Co., Cal.—J. A. Fazio, 402 Castro St., Oakland, at \$3,379, machine made, awarded contract by county supervisors to construct sanitary sewer at county fair grounds, involving: 1488 ft. 12-in. cast iron pipe; 18 12-in. wyes; 20 ft. 4-in. vitrified pipe; 10 4-in. wyes; 10 4-in. bends; 5 manholes; 1 flush tank; 425 ft. 3-in. galv. pipe; 2 3-in. gate valves; 2 concrete valve boxes. Complete list of bids follows: (a) hand labor; (b) machine:
J. A. Fazio, Oakland (a) \$3,579; (b) \$3,379.
Ed. L. Gnekow, Stockton, (a) \$3,588; (b) \$2,518.
R. H. Downcr, Richmond, (a) \$3,876; (b) \$2,576.
F. L. Burr, San Francisco (a) \$3,914; (b) \$2,664.
E. H. Burns, Stockton, (a) \$3,960; (b) \$3,600.
Martin Murphy, Oakland, (a) \$3,990; (b) \$3,720.
F. E. Goodel, (a) \$4,241; (b) \$4,091.
John Hichman, Stockton (a) \$4,250; (b) \$3,970.
Geo. McGaw (a) \$4,450; (b) \$4,400.
Miller-Hays, Stockton (a) \$4,626; (b) \$4,296.
Brandt Bros., Stockton, (a) \$4,850; (b) \$4,648.

GONZALES, Monterey Co., Cal.—See separate unit bid listing in this issue covering construction of sewer mains, outfall and separate sludge digestion plant for Gonzales Sanitary District. Burns-McDonnell-Smith Engineering Co., Los Angeles.

LOS GATOS, Santa Clara Co., Cal.—H. B. Fisher, engineer, 74 N-First St., San Jose, making surveys for sewer extensions in eastern section of

Las Gatos. A report will be submitted to the city trustees shortly.

MENLO PARK, San Mateo Co., Cal.—Election will be held May 2 in Menlo Park Sanitary District to vote bonds of \$2500 to finance extension to sewer system. Trustees of the district are: John B. Glunz, Lawrence H. Cook and Richard A. Fanto.

PETALUMA, Sonoma Co., Calif.—City council is considering the construction of a sewer main along the river bank, including a pumping plant.

BERKELEY, Alameda Co., Cal.—Florence E. Turner, city clerk, instructed to advertise for bids to construct sewer in Cragmont Ave. bet. Euclid Ave. and Regal Road; estimated cost, \$3,500. Harry Goodridge, city engineer. Plans on file in office of clerk.

WATER WORKS

SAN LUIS OBISPO, San Luis Obispo Co., Cal.—See "Government Work and Supplies", this issue. Bids wanted for construction at National Guard Training Camp, including extensions to sewer, water and electric systems.

EXETER, Tulare Co., Cal.—City wells \$2,000 bond issue to finance improvements to water system. Construction involves 200,000 gallon storage tank, well drilling, installation of a deep well and booster pumps and extensions to mains. I. H. Althouse, engineer, Porterville.

LOS ANGELES, Cal.—Until 2 P. M., May 4, bids will be received by the County Supervisors for constructing shafts and tunnels in Los Angeles County Water Works District No. 13, "Picture City," in accordance with plans and specifications prepared by the County Mechanical Department a copy of which is on file at the office of Mame E. Beatty, 303 Hall of Records, County Clerk.

LAS VEGAS, Nev.—Wheelwright Constr. Co., Ogden, Utah, submitted the low bid to the U. S. Bureau of Reclamation, Las Vegas, at \$35,452.70, for the construction of a 10-in. and 12-in. main of high pressure water supply pipe line for Boulder City, Nevada, water system, Boulder Canyon Project, Arizona-California-Nevada. The work is located near Las Vegas, Nev., on the Los Angeles and Salt Lake Railroad, Union Pacific System. The principal items of work and the advance estimated quantities involved are approximately as follows:

- (1) 19,000 cu. yds. of all classes of trench excavation;
- (2) 15,000 cu. yds. of trench backfill;
- (3) 35,000 lin. ft. of pipe laying (10-in. and 12-in. diameters);
- (4) 45 cu. yds. of reinf. concrete;
- (5) 1700 sq. yds. of rock protection;
- (6) 150 cu. yds. of dry rock wall.

The other bids were:
 G. W. Kemper, Los Angeles, \$47,847.52
 Lee R. Weber, Santa Monica 64,981.90
 Macco Constr. Co., Clearwater 50,134.00
 Butterfield Constr. Co., San Diego
 Diego \$1,309.00
 Thos. Haverly Co., L. A. \$3,659.20
 Delta Constr. Co., L. A. 118,387.00

OAKLAND, Cal.—Paradon Mfg. Co., (O. C. LoPrest, manufacturers agent, 475 Broadway Bldg., San Francisco), at \$1490 submitted lowest bid to John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., to furnish one Manual Control Vacuum Feed Chlorinator. No other bid was submitted by Wallace & Ternan, San Francisco, at \$1929. Bids held under advisement.

SARANOP, Contra Costa Co., Cal.—Local residents propose to organize the Saranop Water District and construct water distributing system to connect up with the East Bay Municipal District lines. A distributing system costing \$44,000 is contemplated.

SAN PABLO, Contra Costa Co., Cal.—Property owners propose to organize a water district to vote bonds to finance construction of a distributing system to connect up with the East Bay Municipal Utility District lines. F. W. Hanna, chief engineer of the East Bay district, is conferring with promoters of the project. R. Schwarz, Wilbur Skow and E. P. Howard are making a survey of property owners with a view to securing their sentiment on the project.

MARTINEZ, Contra Costa Co., Cal.—An election will be held April 30 to vote on the formation of the proposed Lafayette County Water District, which, after formation, proposes to vote bonds to finance construction of a water distributing system. J. H. Wells is county clerk.

KLAMATH FALLS, Oregon.—Until May 9, 2 P. M., under Specifications No. 520-D, bids will be received by U. S. Bureau of Reclamation, to construct Dry Lake Pumping Plant No. 2, discharge pipe line and appurtenant structures in the Langell Valley Division, Klamath Project, located about 6 miles south and 24 miles east of Klamath Falls, and approximately 14 miles southeast of Dairy, Ore., the nearest railroad point. The work consists of the construction of a concrete pump inlet structure, timber and corrugated iron pump house, installation of pump, motor and accessories, concrete outlet structure and pipe piers, erection of steel pipe discharge line and channel and trench excavation incidental thereto, involving: 1400 cu. yds. channel and trench excavation;

33 cu. yds. reinforced concrete; 6550 lbs. install machinery and trash rack; 622 lin. ft. erect steel pipe line; pump house 8x12x9-ft. Specifications obtainable from above office.

HAYWARD, Alameda Co., Calif.—Property owners in the Kelly Hill, Fairview and East Avenue communities propose to form water district to construct distributing system, purchasing water from the East Bay Municipal Utility District. Construction of two reservoirs in addition to pipe lines is included in the contemplated improvements.

SANTA BARBARA, Cal.—An election to vote a \$2,100,000 water bond issue will be held June 1. The funds will be expended for a rock fill dam at Gibraltar, increasing Gibraltar reservoir capacity from 14,000 to 40,000 acre ft. costing \$1,975,000; reservoirs at El Cielito and La Meda with pipe lines, etc., \$100,000; trunk mains, \$50,000; and underground water development, \$100,000. The difference between the costs outlined and the bond issue will be raised through earnings. Veterans in the water works superintendent. Quinton-Cole & Hill, and Leed's & Barnard are consulting engineers.

PONTANA, San Bernardino Co., Cal.—Until May 4, bids will be received by the Pomona Mutual Water Co., Fontana, for one deep well turbine, of 1400 G. P. M., for 665-ft. lift, to be installed in a 20-in. well. P. B. Hasbrouck, manager.

SANTA ROSA, Sonoma Co., Cal.—City Engineer A. P. Noyes compares specifications to install 700-ft. 6-inch

and 8-inch water mains in Proctor Terrace in addition to the installation of two fire hydrants. Pipe estimated to cost \$1,250, will be purchased, exclusive of that in storage at the municipal warehouse.

PLAYGROUNDS & PARKS

SAN MATEO, San Mateo Co., Cal.—City council has approved specifications for planting 857 trees in Baywood Park at a cost of \$9,248, including five year's maintenance.

PACIFIC GROVE, Monterey Co., Cal.—Until May 7, 7:30 P. M. bids will be received by Elgin C. Hurlbert, city clerk, (3347) to improve Evans Ave. bet. Eardley and Central Aves., Dewey Ave., bet. Evans and Central Aves., First St. bet. Lighthouse Ave. and Central Ave. and Second St. bet. Lighthouse Ave. and Evans Ave. Project involves:

- (1) 12,000 sq. ft. 2-in. asphalt surface on 3-in. rock base;
 - (2) 29,000 sq. ft. 2-in. asphalt surface on existing base;
 - (3) 500 lin. ft. concrete curb;
 - (4) 1,500 lin. ft. concrete gutter; approach;
 - (5) 600 sq. ft. concrete driveways;
 - (6) 300 lin. ft. 4-in. vitrified clay sewer laterals;
 - (7) 50 sewer taps.
- 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk. E. Eames, city engineer.

PACIFIC GROVE, Monterey Co., Cal.—Until May 7, 7:30 P. M. bids will be received by Elgin C. Hurlbert, city clerk, (3347) to improve Ocean View Ave., bet. Eardley Ave. and Second St. Project involves:

- (1) 23,000 sq. ft. 4-in. asphalt paving;
- (2) 21,000 sq. ft. 2-in. asphalt surface;
- (3) 1,000 lin. ft. header curb;
- (4) 800 lin. ft. concrete curb;
- (5) 800 lin. ft. concrete gutter;
- (6) 2 catchbasins;
- (7) 80 ft. 10-in. corr. iron pipe;
- (8) 30 ft. 10-in. vitrified pipe;
- (9) 10 cu. yds. concrete;
- (10) 100 ft. 4-in. vitrified clay lateral sewer;
- (11) 10 sewer taps.

1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk. E. Eames, city engineer.

QUINCY, Plumas Co., Cal.—Until May 4, 10 a. m. bids will be received by Wm. F. Werner, county clerk, for 20,800 sq. ft. 6-in. cement concrete pavement, including grading. Specifications on file in office of clerk and obtainable from A. J. Weston, surveyor, on deposit of \$10, returnable.

HANFORD, Kings Co., Cal. County Surveyor Roy May preparing specifications to reconstruct 12-miles of the county highway system. Plans will provide for reconstruction from the north terminus of Dooty street westery 1 1/2 miles to the Hall corner, thence north 4 miles and west 1/2 mile and also south 6 miles from the state highway at the east city limits. Specifications will call for a new sub, and new construction to bring the present pavement to 18 feet in width. The work has \$110,000 available for the work.

YUBA CITY, Sutter Co., Cal.—Until May 4, 7:30 P. M., bids will be received by Beatrice Johnson, city clerk, to widen Plumas street between Reeves and Forbes Aves. Est. cost, \$22,000. Acq. and Imp. Dist. No. 1. Work under Acq. and Imp. Dist. Act 1925. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

CHURCHILL COUNTY, Nev.—Until April 29, 2:30 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, for grading, construction of structures and placing surfacing material between 5 miles south of Fallon and Salt Wells 10.14 miles in length.

Plans obtainable from engineer on deposit of \$15, of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco. Certified check \$5 required with bid.

OAKLAND, Calif.—Hutchinson Co., 1450 Harrison St., granted permit by city council to improve portion of Bennett Place between Mountain Blvd. and Jordan Road, and a portion of Guido Street. Oil macadam pavement.

OAKLAND, Calif.—Hutchinson Co., 1450 Harrison St., Oakland, at \$4,177 submitted only bid to the city council to improve portions of 83th Ave. bet. Hillside St. and Clive St., involving grading, curbs and gutters, paving, sewer with appurtenances. Bid held under advisement.

SANTA ROSA, Sonoma Co., Cal.—Highway Builders, Ltd., Redhill Ave., San Anselmo, at \$6,225.40 awarded contract by county supervisors for asphaltic oil surfacing on 6.9 miles of road in the Fourth Supervisor Dist., involving: 420 barrels light oil, 140 tons heavy oil, 1750 tons rock and screenings.

SANTA ROSA, Sonoma Co., Cal.—George French, Jr., Stockton, at \$7,381 awarded contract by County Supervisors for asphaltic oil surfacing on 7.4 miles of road in the Second Supervisorial District, involving: 444 barrels light oil, 148 tons heavy oil, 1110 tons rock, 750 tons screenings.

WILLOW GLEN, Santa Clara Co., Cal.—Town trustees declare intention to improve Willow St., Acq. and Imp. District No. 2, involving:

- (1) 120,000 sq. ft. 5½-in. asph. conc. pavement;
- (2) 490 lin. ft. 12-in. P.C. conc. pipe;
- (3) 260 lin. ft. 18-in. do;
- (4) 48 lin. ft. 21-in. do;
- (5) 225 lin. ft. 24-in. do;
- (6) 358 lin. ft. 27-in. do;
- (7) 555 lin. ft. 30-in. do;
- (8) 2,004 lin. ft. 36-in. do;
- (9) 63 lin. ft. 42-in. do;
- (10) 19 inlets;
- (11) 10 manholes;
- (12) 7,000 lin. ft. P.C. concrete curb;
- (13) 14,000 sq. ft. P. C. conc. gutter;
- (14) 35,000 sq. ft. P. C. conc. sidewalk.

Acq. and Imp. Act 1925. Hearing May 4. Dana Thomas, city clerk. H. N. Bishop, city engineer, Bank of Italy Bldg., San Jose.

ELKO COUNTY, Nev.—A. D. Drumm, Jr., Fallon, Nevada, at \$158,791.02 awarded contract by State Highway Commission for grading, constructing structures, placing surfacing material and furnishing asphaltic fuel oil, applying and mixing it with a crushed rock or crushed gravel surface between the South Elko County Line and Wendover, a length of 53.54 miles. Complete list of bids follows:

A. D. Drumm, Jr.,	\$158,791.
Dodge Bros., Inc.,	\$164,128.
Jack Casson, Hayward, Cal.,	\$176,003.
Irving L. Ryder, San Jose,	\$195,890.
Robinson Construction Company, Twin Falls,	\$226,524.

Engineer's estimate, \$204,269.94.

CLARK COUNTY, Nevada—Triangle Rock and Gravel Co., San Bernardino, at \$26,839.38 awarded contract by State Highway Commission for furnishing asphaltic fuel oil, applying and mixing it with a crushed rock or crushed gravel surface on a

portion of the State Highway system in Clark County from the California-Nevada State Line to Jean, a length of 12.62 miles. Complete list of bids follows:

A. D. Drumm, Jr.,	\$21,966.02.
U. B. Lee, San Leandro,	\$23,518.22.
F. J. Ammadich, Los Angeles,	\$24,492.55.
Basalt Rock Company, Napa,	\$25,388.08.
General Construction Company, Las Vegas,	\$25,761.54.
Triangle Rock & Gravel Company, San Bernardino,	\$26,839.38.

Engineers estimate, \$32,221.92.

ELKO COUNTY, Nevada—Gibbons and Reed, Burbank, Calif., at \$118,723.45 awarded contract by State Highway Commission for grading, constructing structures and placing surfacing material between Death and Wells, a distance of 18.53 miles. Complete list of bids follows:

Gibbons & Reed, Burbank	\$118,723
Dodge Eros, Inc.	127,362
Utah Const. Co.	129,314
Nevada Contr. Co.	134,867
Nevada Rock & Sand Co.	138,907
Robinson Const. Co.	140,432
W. K. McMillan	161,637
Engineer's estimate	180,053

KERN COUNTY, Cal.—Square Oil Co., 916 Adobe st., Los Angeles, at \$5,220 submitted low bid to District Engineer, State Highway Commission, Bakersfield, for treating 21.2-miles of highway with heavy fuel oil as a dust palliative, between Mojave and the San Bernardino county line, involving 4,350 lbs. Complete list of bids follows:

Square Oil Co.,	\$1.20 bbl;	total \$3220.
Pac. Tank Lines, Inc.,	\$1.35 bbl;	total \$5872.50.
Fred W. Nighbert,	\$1.43 bbl;	total \$6220.50.
U. B. Lee, San Leandro,	\$1.47 bbl;	total \$6394.50.
Basalt Rock Co., Napa,	\$1.47 bbl;	total \$6394.50.
Gilmore Oil Co.,	\$1.60 bbl;	total \$6,360.
L. C. Pulley,	\$1.67 bbl;	total \$7264.50.
Cal. Road Oil Service Co., Ltd.,	\$1.79 bbl;	total \$7736.50.

MERCED, Merced Co., Cal.—Associated Oil Co., at 49c per bbl, awarded contract by county supervisors to furnish between 15,000 and 30,000 barrels of road oil.

PACIFIC GROVE, Monterey Co., Cal.—Until May 7, 7:30 p. m. bids will be received by Elgin C. Hurlbert city clerk, to construct combined cement concrete retaining wall and curbs and gutter in west side of Twelfth street between Ocean View and Central avenues. Certified check 10% payable to city required with bid. Specifications on file in office of clerk.

LODI, San Joaquin Co., Cal.—City council declares intention (72) to improve Cherokee Lane, involving: (prices quoted are engineer's estimate):

- (1) 322,000 sq. ft. grading, % \$0.15.
- (2) 105,000 sq. ft. slab, 10-ft. wide, by 9-7-9-in. thick, at \$20.
- (3) 105,100 sq. ft. slab, 10-ft. wide, by 9-6-8-in. thick, at \$18.
- (4) 89,950 sq. ft. slab, 7.5-ft. wide, by 8-5-8-in. thick, at \$16.
- (5) 10,230 lin. ft. curbs, rolled and integral, at \$40.
- (6) 148,200 lbs. reinforcing steel, etc., at \$45.
- (7) 903 lin. ft. concrete pipe sewers, at \$90.

Work under Boundary Line Act of 1911. Bonds under April 7, 1931. Act Part 3. Hearing April 29. Estimated cost \$72,654.70. Edward Hussey, city engineer, (Hussey and Belcher), 719-720 Syndicate Bldg., Oakland.

ALPINE COUNTY, Cal.—Until April 30, 3 p. m. bids will be received by R. E. Pierce, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, for treating with light and heavy fuel oil as a dust palliative, 10.6 miles between Hangman's Bridge, approximately 2 miles southeast of Markville and the State Highway Camp, approx. 2 miles northwest of Woodfords.

SANTA ROSA, Sonoma Co., Cal.—Highway Builders, Inc., Redhill Ave., Santa Rosa, at \$12,891 awarded contract by county supervisors for 11.5 miles of asphaltic oil surfacing in the Fifth Supervisorial District, involving: 690 lbs. light oil; 230 tons heavy oil; 1725 tons rock; 1150 tons screenings.

SANTA ROSA, Sonoma Co., Cal.—County supervisors reject one bid received for asphaltic oil surface on 31.7 miles of road in Third Supervisorial District, involving: 1870 lbs. light oil; 640 tons heavy oil; 4755 tons rock; 2170 tons screenings. The work will be done by day labor under the supervision of County Surveyor E. A. Peugh.

CLARK COUNTY, Nevada.—Until April 29, 2 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, for grading, construction of structures and placing surfacing material between 10 miles southeast of Las Vegas and Boulder City, 11.01 miles in length.

Plans obtainable from engineer on deposit of \$15, of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco. Certified check \$5 required with bid.

SAN JOSE, Santa Clara Co., Cal.—Until May 4, 12 A. M. bids will be received by Henry A. Pfister, county clerk, to improve Moorpark Ave. and

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portion of Northrup Street in Supervisor District No. 4. Specifications obtainable from Robt. Chandler, county surveyor, on payment of \$10.

SAN BERNARDINO COUNTY, Cal.—Until April 23, 3 P. M., bids will be received by E. Q. Sullivan, district engineer, State Highway Commission, 17 Third Street, San Bernardino, for paving 3.71 miles with heavy fuel oil as a dust palliative, between Kern county Line and Barstow. Specifications obtainable from district engineer.

SAN BERNARDINO COUNTY, Cal.—Until April 23, 3 P. M., bids will be received by E. Q. Sullivan, district engineer, State Highway Commission, 17 Third Street, San Bernardino, for paving 6.4 miles of highway between avnskin and the county road to Pine nut with heavy fuel oil as a dust palliative. Specifications obtainable from district engineer.

HAWTHORNE, Nev.—Public Works ficer, 12th Naval District, 100 Harrison St., San Francisco, will ask bids for asphaltic road oiling at the aval Ammunition Depot at Hawthorne. The project involves treating 4,000 sq. yds. of gravel road with asphaltic fuel oil. Work is provided for under Specification No. 6515.

REDWOOD CITY, San Mateo Co., Cal.—County supervisors authorize cutting of banks and grades and widening of 2.5 miles of 14-mile road from Point to the Big Basin. The county has \$7,000 available for the work.

HEALDSBURG, Sonoma Co., Cal.—Until May 1, bids will be received by the county to pave, patch and seal at surface of various streets; estimated cost \$6,752. Specifications on file in office of clerk.

REDWOOD CITY, San Mateo Co., Cal.—County Supervisor Jas S. James, a report to the county supervisors, estimated the cost of the Nineteenth avenue Extension in San Mateo to meet with the Bay Bridge head at \$276. The estimate is itemized as follows:
Pile, timber bridge, \$6,000; grading, 1,500 cubic yards, \$10,050; drainage structures, \$1,060; temporary paving, 14,000 square feet, \$12,320; incidentals \$600.

The extension from the present terminus of Nineteenth Avenue to meet the bridge head diagonally from the present bridge road would be 7700 feet long, 30 feet wide with 20-foot paving and the bridge across Seal Creek would be 240 feet long.

TUOLUMNE and MARIPOSA COS., Cal.—Basalt Rock Co., Napa, at \$11,905 submitted low bid to R. E. Pierce, district engineer, State Highway Commission, Sacramento, for furnishing and applying light and heavy oil as a dust layer on 38.9 miles between Priests Hotel and Yosemite National Park. Complete list of bids follows:
Basalt Rock Co., Napa.....\$11,890
W. Wood, Stockton..... 12,359
Pacific Tank Lines, Inc., L. A..... 12,421
Taken under advisement.

YUBA-NEVADA COUNTIES, Cal.—W. Wood, Country Club Boulevard, Yuba, at \$741.60 awarded contract by State Highway Commission, to treat with light fuel oil as a dust palliative, 12.4 miles in Yuba and Nevada counties, between Seven Mile House and Rough and Ready and in Nevada and Sierra counties, 50.7 miles between Nevada City and Downville, 45.

SANTA ANA, Orange Co., Cal.—Until May 5, 11 A. M., bids will be received by J. M. Backs, county clerk, to improve Manchester Ave., etc., in 3rd Rd. Dist., involving in the main: 12,657 cu. yds. excavation for rdwy. shoulders and ditches;

222,602 sq. ft. gravel base; in place; 38,876 sq. ft. gravel shoulders in place; corr. metal pipe culverts, etc.

Certified check or bond 5% required with bid. Plans obtainable from Nat. H. Neff, county road commissioner.

SALINAS, Monterey Co., Cal.—W. A. Dontanville, Salinas, at \$3,908.50 awarded contract by city council (93) to improve portions of Lincoln Avenue, involving grading, hydraulic cement concrete curbs and walks, 6-in. hydraulic cement concrete pavement. Complete list of bids follows:
W. A. Dontanville.....\$3908
Union Paving Co., S. F..... 8968
Granite Constr. Co., Watsonville..... 9257
Engineer's estimate..... 9389

SALINAS, Monterey Co., Cal.—Union Paving Co., Call Bldg., San Francisco, awarded contract by city council (94) to improve portions of Abbott and Summer Sts., involving grading; hydraulic concrete curbs, sidewalks; 6-inch hydraulic concrete pavement; engineer's estimate, \$10,579.

SANTA BARBARA, Cal.—Until 10 A. M., May 4, bids will be received by county supervisors to improve the Turnpike Road, consisting of a graded and drained highway on Goleta Foot-hill Blvd., from Cienfuegos Road 6300 lin. ft. west. Est. cost \$15,800. Owen H. O'Neill, county surveyor.

TEHAMA & SHASTA COUNTIES, Cal.—Irving J. Ryder, 205 Almaden Ave., San Jose, at \$131,231 awarded contract by U. S. Bureau of Public Roads, San Francisco, to construct culvert on Section E and applying oil and processing the oil treated existing crushed rock surfacing on Sections A, B, C1, C2, C3, C4, D and E of Route 1, the Loop Route Lassen-Volcanic National Park and applying oil on Section A Route 71, Mt. Lassen National Forest Highway, Lassen National Forest, 34,562 miles in length. Complete list of unit bids published in issue of March 25. Project involves: 3700 cu. yds. excavation; 175 cu. yds. excav., unclass. for structures; 7.82 miles grading, subgrade and shoulders; 14,500 cu. yds. crushed rock surface; 500 cu. yds. supplemental crushed rock; 34,662 mt. mix. oil treated crushed rock surfacing; 14,500 yd. mile hauling binder; 900 M. gal. watering; 5000 cu. yds. additional binder; 1360 cu. yds. screenings; 153 cu. yds. class A concrete; 18,000 lbs. reinforcing steel; 26 cu. yds. cement rubble masonry; 542,500 gals fuel oil; 337 tons asphaltic oil.

SAN FRANCISCO.—Municipal Construction Co. Call Bldg., awarded contract by Board of Public Works to improve SE one-half of Selby St. bet. Quesada and Revere Aves., involving: 200 lin. ft. conc. curb, \$175; 65 lin. ft. 6-in. V.C.P. side sewers, \$150; 3,400 sq. ft. asphalt. conc. pavement, 2-inch asphalt. conc. wearing surface on 6-in. class F concrete base, \$44.

SAN FRANCISCO.—Constructing Quartermaster, Port Mason, will ask bids shortly for reconstructing all roads in the National Cemetery, Port Mason. Asphaltic concrete roads with concrete curbs. Funds are available.

TULARE COUNTY, Calif.—Union Paving Co. Call Bldg., San Francisco, at \$305,561 submitted low bid April 22 to State Highway Commission to grade and pave with asphalt concrete 12.1 miles between Goshen and Kingsburg. Complete bid listing follows:
Union Paving Co., S. F.....\$305,561
Valley Paving & Const. Co., Fresno..... 307,506
Dan H. Ryan, San Diego..... 308,255
Hanrahan Co., San Francisco..... 318,568
Peninsula Paving Co., S. F..... 320,722
G. H. Oswald, Los Angeles..... 326,662
Gibbons & Reed, Burtank..... 345,166
Clark & Henry Co., S. F..... 363,644

TEHAMA COUNTY, Calif.—Hemstreet & Bell, Marysville, at \$59,487 submitted low bid April 22 to State Highway Commission to surface with bituminous treated crushed gravel or stone surfacing, 7.3 miles between Dales Ranch and Paynes Creek. Complete bid listing follows:
Hemstreet & Bell, Marysville.....\$59,487
P. W. Nighbert, Bakersfield..... 60,606
Finnell Co., Sacramento..... 64,640
D. McDonald, Sacramento..... 64,724
C. W. Wood, Stockton..... 65,935
N. M. Ball, Porterville..... 74,884
Granite Const. Co., Watsonville..... 77,956

HUMBOLDT COUNTY, Cal.—Hemstreet & Bell, Marysville, at \$62,855 submitted low bid April 22 to State Highway Commission to improve 10 miles of highway between Loleta and 1/2 mile south of Eureka, 5.3 miles to be surfaced with bituminous treated crushed gravel or stone and 4.7 miles to be widened with bituminous treated crushed gravel or stone borders. Complete bid listing follows:
Hemstreet & Bell, Marysville.....\$62,855
Heafey-Moore, Oakland..... 62,770
Smith Bros. Co., Eureka..... 69,762
Mercer-Fraser Co., Eureka..... 71,137

PLACER AND EL DORADO COUNTIES, Cal.—J. A. Casson, Hayward, at \$4,238.57 awarded contract by State Highway Commission to treat with light fuel oil as a dust palliative, 31.9 miles between Auburn and Placerville and between El Dorado and the Consumes River.

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PLUMAS COUNTY, Cal.—Chigris & Sutcos, 2211 18th St., San Francisco, at \$59,134 submitted low bid April 22 to State Highway Commission to grade 1.4 miles between Spanish Creek and 1 mile south of Keddie. Complete bid listing follows:

Chigris & Sutcos, S. F.	.....	\$ 69,134
Morrison-Knudsen Co., Boise, Idaho	.....	84,320
W. H. Hauser, Oakland	.....	86,591
Clarence Young, Oakland	.....	87,746
H. H. Boomer, San Francisco	.....	89,561
Nevada Contracting Co., Fallon, Nevada	.....	91,937
Kennedy-Bayless Co., Biggs	.....	136,483
C. G. Willis & Son, L. A.	.....	143,178

SAN FRANCISCO.—C. E. Eaton, 715 Ocean Ave., at \$1,085 awarded contract by Board of Public Works to improve Quessada Ave. bet. Rankin St. and point 250 ft. southeasterly, involving: 100 lin. ft. armored curb, \$1; 70 lin. ft. 6-in. V.C.P. side sewers, \$1; 550 sq. ft. two-course concrete sidewalks, \$20; 1750 sq. ft. asphalt concrete pavement, 2-in. asphalt concrete surface on 6-in. class F concrete base, \$46.

LAKE COUNTY, Calif.—Chas. Kuppinger, Lakeport, at \$1,314 awarded contract by State Highway Commission for 10.9 miles of oiling on the Ukiah-Tahoe Highway.

SAN FRANCISCO.—C. L. Harney, Call Bldg., at \$4,668.35 awarded contract by Board of Public Works to improve Santiago St. bet. 41st and 44th Aves., involving: 347 lin. ft. conc. curb, \$1,25; 325 lin. ft. 6-in. V.C.P. side sewer, \$1; 8688 sq. ft. asphalt. conc. pave.

BUTTE-PLUMAS COUNTIES, Cal.—D. McDonald, 1118 G Street, Sacramento, at \$7,616 awarded contract by State Highway Commission, Sacramento, to treat with light fuel oil as a dust palliative, on 47.8 miles between Miner's Ranch and Quincy.

SHASTA COUNTY, Cal.—Plan for routing the Pacific Highway through Redding, with provision for connecting both Market and California Sts. across the Sacramento river at the head of Pine St., has been approved by the Redding city council. It is estimated the cost to the city will be approximately \$75,000, with the probability of a bond election being called to vote the funds. The estimate on the bridge is reported to be \$250,000, but it is authoritatively stated that the cost probably will be nearer \$350,000. The city's plan, adopted unanimously by the council, will be presented to the California State Highway Commission at its meeting in Sacramento on April 30th.

SAN JOSE, Santa Clara Co., Cal.—Until April 27, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve Church Ave. in Supervisor District No. 1. Project involves 212,280 sq. ft. oil macadam pavement. Specifications obtainable from Robert Chandler, County Surveyor, on payment of \$1. Quantities of materials involved will be published shortly.

SANTA CRUZ COUNTY, Cal.—Until May 13, 2 P. M., bids will be received by State Highway Commission to grade and surface with crusher run base and pave with bituminous macadam 1 mile between 1 mile north of Santa Cruz and Santa Cruz.

See call for bids under official proposal section in this issue.

OAKLAND, Cal.—County Surveyor Geo. A. Posey making surveys to improve Durham Road.

HAYWARD, Alameda Co., Calif.—Jones & King, Hayward, at \$5,035.39 awarded contract by city council to widen Castro St. bet. A and C Sts., and A St. bet. Castro and C Sts., involving:

- (1) remove 1557 lin. ft. conc. curb;
- (2) remove 1347 sq. ft. conc. gutter;
- (3) remove 4570 sq. ft. conc. sidewalk;
- (4) construct 1910 lin. ft. conc. curb;
- (5) construct 5444 sq. ft. conc. gutter;
- (6) construct 4735 sq. ft. conc. sidewalk;
- (7) construct 1910 sq. ft. asphalt. conc. pavement;
- (8) 12 lin. ft. c.i. and concrete drain culvert to be moved and reset;
- (9) 1,715 lin. ft. conduit to be laid;
- (10) 3,500 lin. ft. cable to be installed;
- (11) 11 electroliter standards to be moved and reconnected;
- (12) 1 traffic signal standard to be moved and reconnected;
- (13) 1 catchbasin and inlet to be moved and reset;

Following is a complete list of the bids and unit figures:

(A) Jones & King, Hayward	.....	\$5,035.39
(B) Rufus Gonzales, Hayward	.....	5,326.55
(C) L. J. Immel, Berkeley	.....	5,539.05
(1) .....	.....	10 .06 .18
(2) .....	.....	.05 .09 .07
(3) .....	.....	.035 .06 .05
(4) .....	.....	.44 .40 .50
(5) .....	.....	.21 .17 .28
(6) .....	.....	.13 .16 .14
(7) .....	.....	.45 .45 .23
(8) .....	.....	1.30 4.00 2.50
(9) .....	.....	.38 .41 .50
(10) .....	.....	1.25 .16 .12
(11) .....	.....	12.00 10.00 40.00
(12) .....	.....	15.00 10.00 40.00
(13) .....	.....	30.00 8.00 40.00

SAN JOSE, Santa Clara Co., Cal.—Until April 27, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve Lincoln Ave. in Supervisor District No. 4. Project involves 15,255 sq. ft. asphaltic concrete pavement.

Specifications obtainable from Robert Chandler, county surveyor, on payment of \$1. Quantities of materials involved will be published shortly.

SAN JOSE, Santa Clara Co., Cal.—Until April 27, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve Pearl Ave. in Supervisor District No. 5. Project involves 204,575 sq. ft. oil macadam pavement.

Specifications obtainable from Robert Chandler, county surveyor, on payment of \$1. Quantities of materials involved will be published shortly.

LYON COUNTY, Nevada.—Until 11 April 29, 3 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, for grading, construction of structures and placing surfacing material between five miles north of Fernley and the Lyon-Churchill county line, 8.61 miles in length.

Plans obtainable from engineer on deposit of \$15, of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco. Certified check 5% required with bid.

SANTA ROSA, Sonoma Co., Cal.—Highway Builders, Ltd., Redhill Ave., San Anselmo, at \$7,227 awarded contract by county supervisors for asphaltic oil surfacing 5.5 miles on roads in Fifth Supervisorial District, involving: 230 barrels light oil; 10 tons heavy oil; 825 tons rock; 550 tons of screenings.

SAN FRANCISCO.—M. Bertolino, 82 Shotwell St., at \$338 awarded contract by Board of Public Works to improve Goettingen Street bet. Harkness and Wilde Aves., involving: 20 lin. ft. V. C. P. side sewer, \$2.60; 720 sq. ft. class E concrete pavement, \$40.

WILLOW GLEN, Santa Clara Co. Cal.—Town trustees declare intention to widen and extend Kottenber Avenue in Acq. and Imp. Dist. No. 2, involving:

- (1) 55,685 sq. ft. 4 1/2-in. asphalt. conc. pavement;
- (2) 3,060 lin. ft. P.C. concrete curb;
- (3) 7,852 sq. ft. P.C. concrete gutter;
- (4) 15,300 sq. ft. P.C. conc. sidewalk, Acq. and Imp. Act 1925. Hearn, May 4. Dana Thomas, city clerk. E. N. Bishop, city engineer, Bank & Italy Bldg., San Jose.

WILLOW GLEN, Santa Clara Co. Cal.—Town trustees declare intention to improve Blewett Avenue, Acq. and Imp. District No. 2, involving:

- (1) 59,640 sq. ft. 4 1/2-in. asphalt. conc. pavement;
- (2) 4,000 lin. ft. P.C. concrete curb;
- (3) 8,000 sq. ft. P.C. concrete gutter;
- (4) 20,000 sq. ft. P.C. conc. sidewalk, Acq. and Imp. Act 1925. Hearn, May 4. Dana Thomas, city clerk. E. N. Bishop, city engineer, Bank & Italy Bldg., San Jose.

SAN FRANCISCO.—C. E. Eaton, 715 Ocean Ave., at \$355 awarded contract by Board of Public Works to improve west half of Ashton Ave. from point 320 ft. south from Grafton Ave. to a point 360 ft. south from Grafton Ave., involving: 40 lin. ft. armored concrete curb, \$1; 15 lin. ft. 6-in. V.C.P. side sewer, \$1; 600 sq. ft. 6-in. class E concrete pavement, \$50.

SAN FRANCISCO.—C. E. Eaton, 715 Ocean Ave., at \$2,932.20 awarded contract by Board of Public Works to improve Quint St. bet. Oakdale and Palou Aves., involving in the main 9,230 sq. ft. asphalt. conc. pave., 24; vitrified sewers, etc. Plans and list of unit and total bids published in issue of April 15.

PLUMAS-LASSEN COUNTIES, Cal.—Irving L. Ryder, 305 Almaden Ave., San Jose, at \$36,531 awarded contract by State Highway Commission to surface with untreated crushed gravel or stone, 25.3 miles between Chester and Willards. Complete list of unit bids published in issue of April 22.

MISCELLANEOUS CONSTRUCTION

Bids Opened.
RECREATION CENTER Co., \$5000
WOODSIDE, San Mateo Co., Cal.
 Recreation center (work involves swimming pool, dressing rooms, club room, kitchen, barbecue pit, aviary, etc.)
 Owner—Withheld.
 Architect—Noble and Archie T. Newson, Russ Bldg., San Francisco.
 A. Cedarborg, Oakland..... \$510
 E. Trammel, Oakland..... 5100
 F. C. Stolte, Oakland..... 5100
 M. C. Weeden, Oakland..... 6145
 Bids held under advisement.

Grading Contract Awarded.
UNDERTAKING PARLORS \$40,000
SAN FRANCISCO. Sacramento Street bet. Van Ness Ave. and Polk St. Three-story frame and stucco undertaking establishment and apartments (50x100-ft.).
 Owner—Joh. Hagan, 178 Sacramento.
 Architect—Henry C. Smith and A. R. Williams, Humboldt Bank Bldg.
 Contractor—Reavey & Spivock, Shell Oil Bldg.
 Grading—Sibley Grading and Teaming Co. 165 Landers St.
 Other awards will be made in about one week.

BERKELEY, Alameda Co., Calif.—Florence E. Turner, city clerk, will ask bids at once to furnish two automatic tax billing machines for the Tax Assessor's Office. Further information obtainable from clerk.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

Owner	Contractor	Amt.
1 Campbell	Owner	1000
2 Springer	Exposition	1000
3 Sisser	Owner	1000
4 Ohe	Owner	12000
5 Frances	Owner	1500
6 McDonough	Owner	4500
7 Holmgren	Owner	4000
8 Pavillion	Young	1000
9 Pacific	Owner	1800
10 Peterson	Owner	2500
11 Thompson	Solomon	1400
12 Heyman	Owner	2250
13 Gruhn	Siegust	4750
14 Vaisiere	Young	20000
15 Wood	Wiander	1000
16 Meyer	Owner	5000
17 Larson	Owner	3750
18 Meyer	Owner	16000
19 Heyman	Owner	3500
20 Gordon	Owner	4000
21 Pacific	Owner	4972
22 Herzig	Owner	12000
23 Heyman	Owner	9000
1 Heyman	Owner	7500
2 Peters	Owner	3000
3 Brusck	Owner	2500
4 Johnson	Owner	5000
5 Miller	Owner	3500
6 Meyer	Owner	36000
7 Meyer	Owner	4000
8 Meyer	Owner	5000
9 Dalton	Owner	3500
10 Magee	Aetna	4000
11 Vigale	Owner	2400
12 Horn	Owner	2500
13 Graham	Owner	10500
14 Struthers	Conway	8000
15 Gongalez	Pearson	1000
16 De Benedetti	Owner	4000
17 Dalgero	Erickson	7000
18 Pacific	Greenfield	4000
19 Lazarus	De Velbiss	1000
20 Morris	Owner	4000
21 Shannon	Baker	8000
22 Boyle	Owner	4000
23 P. G. & E.	Owner	80000
1 Barclay	Owner	10500
2 Epp	Owner	100000
3 Stoneson	Owner	17500
4 Sanford	Gilbert	4000

WATER SUPPLY STATION
 (54) SE NINTH and Stevenson Sta.; one-story steel frame auto supply station.
 Owner—J. D. Campbell, 1035 Geary St. Plans by Sarracco Co. Unit. \$1000

ALTERATIONS
 (55) SE BUSH and Kearny; alterations to light lunch room.
 Owner—J. Springer, 232 18th Ave. Plans by Contractor.
 Contractor—Exposition Woodworking Co., 661 Golden Gate Ave. \$1000

ALTERATIONS
 (56) SE CHERRY and Washington; alterations to dwelling.
 Owner—Dr. H. Sisser, 3233 Pacific Avenue. Architect—Not Given. \$1000

BUILDING
 (57) W DEALE 100 N Mission St.; one-story and basement class C light industrial building.
 Owner—F. H. and A. Ohe, % architect. Architect—J. E. Kraft & Sons, Phelan Bldg. \$12,000

ALTERATIONS

(558) 2320 LEAVENWORTH; alterations to apartments.
 Owner—E. H. Francis, 69 O'Farrell St. Architect—Not Given. \$1500

DWELLING

(559) NE 46th Ave. and Fulton St.; one-story and basement frame dwelling.
 Owner—M. McDonough, 148 Randall. Architect—Not Given. \$4500

DWELLING

(560) W MADRID 25 S Italy; one-story and basement frame dwelling.
 Owner—V. Holmgren, 55 Allison St. Architect—Not Given. \$4000

ALTERATIONS

(561) SE SUTTER and PIERCE. Alter ice pavilion.
 Owner—Favillon Ice Rink, 140 Geary St., San Francisco. Architect—A. A. Cantin, Flatiron Bldg., San Francisco. Contractor—Young & Horstmeyer, 461 Market St., San Francisco. \$1000

SHED

(562) OTIS and McCOPPIN. One-story frame storage shed.
 Owner—Pacific Telephone & Telegraph Co., 140 New Montgomery St., San Francisco. Architect—Not Given. \$1800

DWELLING

(563) S PARADISE 131 S Elk St. One-story and basement frame dwelling.
 Owner—E. Peterson, 2218 15th St., San Francisco. Architect—Not Given. \$3500

REPAIRS

(564) NO. 1226 OCTAVIA ST. Repair fire damage.
 Owner—Miss Thompson, 1724 Broderick St., San Francisco. Architect—Not Given. Contractor—L. Solomon, 1734 Broderick St., S. F. \$1400

DWELLING

(565) E DARTMOUTH 71 N Silver Ave. One-story and basement frame dwelling.
 Owner—Heyman Eros., 742 Market St., San Francisco. Architect—Not Given. \$3250

SHOP

(566) SE ELEVENTH and MINNA Sts. One-story Class C shop.
 Owner—E. Gruhn, Octavia and Broadway, San Francisco.

Engineer—N. B. Green, Sharon Bldg., San Francisco.
 Contractor—F. R. Selgrist, 604 Mission St., San Francisco. \$4750

APARTMENTS

(567) W ASHBURY 121 S Frederick. One-story and basement frame (6) apartments.
 Owner—Mrs. M. Vaisiere, 2567 17th St., San Francisco. Architect—R. R. Irvine, 747 New Call Bldg., San Francisco. Contractor—Young & Horstmeyer, 461 Market St., S. F. \$20,000

ALTERATIONS

(568) S CLIPPER bet. Church and Dolores. Alter dwelling.
 Owner—Mrs. M. Wood, 75 Clipper St., San Francisco. Architect—Not Given. Contractor—E. Wiander & Son, 641 Brunswick St., S. F. \$1000

DWELLING

(569) SW TERESITA and REPOSA. One-story and basement frame dwelling.
 Owner—Meyer Eros., 727 Portola Drive, San Francisco. Architect—Not Given. \$5000

DWELLING

(570) W THIRTY-THIRD AVE 275 S Judah. One-story and basement frame dwelling.
 Owner—E. Larson, 2162 20th Ave., San Francisco. Architect—Not Given. \$3750

DWELLINGS

(571) W TERESITA 35 S Reposa. Four one-story and basement frame dwellings.
 Owner—Meyer Bros., 727 Portola Dr., San Francisco. Plans by Owner. \$4000 each

DWELLING

(572) E DARTMOUTH 40 N Silva. One-story and basement frame dwelling.
 Owner—Heyman Bros., 742 Market St., San Francisco. Architect—Not Given. \$2500

DWELLING

(573) NW SANTA ROSA and AL Emamy. One-story and basement frame dwelling.
 Owner—H. Gordon, 312 Hanover St., San Francisco. Plans by Owner. \$4000 each

WAREHOUSE

(574) SIXTH and BERRY. Two-story and basement frame warehouse and mill.
 Owner—Pacific Coast Aggregates Co., 700 Wells Fargo Bldg., S. F. Plans by A. Keens, 700 Wells Fargo Bldg., San Francisco. \$4972

DWELLINGS

(575) S ROCKDALE 449 W La Bica. Three one-story and basement frame dwellings.
 Owner—Meyer Bros., 727 Portola Dr., San Francisco. Plans by Owner.

DWELLING

(576) SE DARLEN WAY and APTOS. Two-story and basement frame dwelling.
 Owner—A. J. Herzig. Plans by G. H. Vore, Oakland. \$9000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

BUILDING AND ENGINEERING NEWS

Twenty-six

DWELLINGS
(577) E GIRARD 25 S Burrows St.
Two one-story & basement frame dwellings.
Owner—Heyman Bros., 742 Market St., San Francisco.
Architect—Not Given. \$3250 each

DWELLING
(578) E TWENTY-SEVENTH AVE 225 N Lawton.
One-story and basement frame dwelling.
Owner—J. M. Peters, 797 35th Ave., San Francisco.
Architect—Not Given. \$3000

DWELLING
(579) E BAYSHORE 120 N Quint.
One-story and basement frame dwelling.
Owner—Mr. and Mrs. F. Brusck.
Plans by M. Brueck, 600 Bayshore Blvd., San Francisco.
Contractor—M. Brueck. \$3500

DWELLING
(600) E BENTON AVE. 282 S General Way; one-story and basement frame dwelling.
Owner—A. R. Johnson, 3961 Mission. Plans by D. E. Jaekle, 744 Call Bldg. \$5000

DWELLING
(601) E 33rd AVE. 125 S Judah St.; one-story and basement frame dwelling.
Owner—P. S. Miller, 1370 34th Ave. Plans by Owner. \$3800

DWELLINGS
(602) W SEQUOIA 35 N Omar; nine one-story and basement frame dwellings.
Owner—Meyer Bros., 727 Portola Dr. Plans by Owner. each \$4000

DWELLING
(603) N TERESITA 66 W Reposa; 1-story and basement frame dwelling.
Owner—Meyer Bros., 727 Portola Dr. Architect—Not Given. \$4000

DWELLING
(604) NW COR. SEQUOIA and Omar; one-story and basement frame dwelling.
Owner—Meyer Bros., 727 Portola Dr. Plans by Owner. \$5900

DWELLING
(605) S SILVER 31 E Harvard; one-story and basement frame dwelling.
Owner—A. J. Dalton, 5498 Mission St. Plans by Owner.
Contractor—A. J. Dalton, 5498 Mission Street. \$3500

STORE & DWELLING
(606) S FRANCISCO 6 W Columbus Ave.; 2-story and basement frame store and dwelling.
Owner—E. J. Magee, Houston Place and Columbus Ave.
Architect—Not Given.
Contractor—Aetna Const. Co., 166 Miramar Ave. \$4000

DWELLING
(607) HEARST & BADEN; one-story and basement frame dwelling.
Owner—P. Vigale, 114 Jasper Place. Plans by Owner. \$3400

DWELLING
(608) E MONETA 25 S Milan; one-story and basement frame dwelling.
Owner—J. Horn, 5044 Mission St. Architect—Not Given. \$3500

DWELLINGS
(609) E TOCLOMA 60 N Lathrop; 3 1-story and basement frame dwellings.
Owner—W. H. Grahn, 2965 Mission St. Plans by Owner. each \$3500

DWELLINGS
(610) E SAN JOSE 61 N San Juan; two 1-story and basement frame dwellings.
Owner—M. T. Struthers, 105 Lake St. Architect—Not Given.
Contractor—G. J. Conway, 2733 Mission St. each \$4000

ALTERATIONS
(611) NW GATES & CRESCENT; alterations to flats for foundation.
Owner—F. Gonzales, Crescent & Ellsworth Streets.
Architect—Not Given.
Contractor—Pearson & Johnson, 2031 Bryant St. \$1000

DWELLING
(612) E SAN JOSE AVE. 150 S Seneca; one-story frame dwelling.
Owner—A. DeBenedetti, 22 Cotter St. Architect—Not Given. \$4000

DWELLING
(613) SW COR. FRANCISCO and Lyon Sts.; two-story and basement frame dwelling.
Owner—Frank Dalgero. Architect—Not Given.
Contractor—Henry Erickson, 972 Chenery St. \$7000

SHED
(614) 234-244 EMBARCADERO; steel frame freight shed.
Owner—Pacific Freight Lines, 3rd and Berry Streets.
Plans by Eng. Dept. of Owner.
Contractor—D. L. Greenfield, 656 Mission Street. \$4000

REPAIRS
(615) 601 SECOND AVE.; repairs to fire damage.
Owner—M. Lazarus, Sacramento and Franklin Sts.
Architect—Not Given.
Contractor—C. Dudley DeVelbiss, 369 Pine Street. \$1000

DWELLING
(616) W PINEHURST 40 N Kenwood one-story and basement frame dwelling.
Owner—G. M. Morris, 75 Pinehurst Way.
Plans by D. E. Jaekle, Call Bldg. \$4000

FLATS
(617) E 12th AVE. 150 N Anza; two-story and basement flats.
Owner—Patrick Shannon, 646 20th Avenue.
Architect—Not Given.
Contractor—C. M. Baker, 155 Montgomery St. \$3000

DWELLING
(618) N BELGRAVE AVE. 100 East Stanyan St.; two-story and basement frame dwelling.
Owner—H. Fisk & E. Boyle, 101 Carmel Avenue.
Architect—Not Given. \$4000

SUB-STATION
(619) E BRODERICK bet. Ellis and O'Farrell. Class A sub-station for gas-electric company.
Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.
Architect—Not Given. \$30,000

DWELLINGS
(620) W MONADA WAY 225 N Faragut St. Three one-story and basement frame dwellings.
Owner—G. M. Barclay, 473 Munich St., San Francisco.
Architect—Not Given. \$3500 each

APARTMENTS
(621) SW GROVE AND FILLMORE. Eight-story Class A and C (39) apartments.
Owner—Epp & Riebman, 4745 Geary St., San Francisco.
Architect—H. C. Baumann, 251 Kearny St., San Francisco. \$100,000

DWELLINGS
(622) N SEMINOLE 20 E Delano St. Five one-story and basement frame dwellings.
Owner—Stoneson Brothers and Thorsen, 279 Yerba Buena Ave., in Francisco.
Architect—Not Given. \$3500 each

DWELLING
(623) NE COTTER 235 E San Jose Ave. One-story and basement frame dwelling.
Owner—H. A. and L. M. Sanford, 1 Theresa St., San Francisco.
Architect—Not Given.
Contractor—Eugene G. Gilbert, 8 Lisbon St., San Francisco. \$40

BUILDING CONTRACTS
SAN FRANCISCO COUNTY

No.	Owner	Contractor	At.
71	De Masi	Schaadt	50
72	Brusco	Brueck	41
73	P G & E	Wonderlite	10

BUNGALOW
(71) S 21st St. 152-3 W Church St all work on 1-story frame bungalow.
Owner—C. and A. DeMasi.
Architect—A. C. Lindgren, 64 Ramo Street.
Contractor—R. M. Schaadt, 31 Howland Street.
Filed and Dated April 22, 1931.
Roof on \$142
White coated 142
Completed 142
Usual 35 days 142
TOTAL COST, \$550
Limit, 90 days. Plans and Spec. filed.

BUILDING
(72) NE BAYSHORE BLVD. 125 S Thornton Ave.; all work on one-story and basement frame bldg.
Owner—Mr. and Mrs. F. Brusco.
Architect—Not Given.
Contractor—M. Bureck, 600 Bayshore Blvd.
Filed April 22, '31. Dated April 11, '31
Roof on \$11
Brown coated 11
Completed and accepted 11
Usual 35 days 11
TOTAL COST, \$44
Limit, 100 days. Plans and Spec. filed.

ELECTRIC SIGN
(73) STATION A at 23rd and Michigan Sts.; construction and erection of single face Neon electric sign on vertical face of 24-ft. diameter steel chimney.
Owner—Pacific Gas & Electric Co., 245 Market St.
Architect—Not Given.
Contractor—Wonderlite Neon Products Co., Ltd.
Filed April 22, '31. Dated April 16, '31
On completion \$75
Usual 35 days 25
TOTAL COST, \$100
Bond, \$1600. Sureties, Pacific Indemnity Co. Limit, 60 days. Plans & Spec. filed.

COMPLETION NOTICES
San Francisco County

April 21, 1931—LOTS 24A, 25A and 26A Blk 3033 Map Blks 3004 B, 3201 3005C, 3005 D and part Blks 2977 3038 and 3054, Westwood Highlands. H and H Stoneson to whom it may concern. April 18, 1931.
April 21, 1931—LOTS 32, 33 AND 34 Blk 6971-A Map Sub No. 4; Lot 6, 7 and 8 Blk 6971-B Map Sub No. 4, Geneva Terraces. H and Stoneson to whom it may concern. April 18, 1931.

April 21, 1931—LOTS 4 AND 5 BLK 3, Sunnyside. H and H Stoneson to whom it may concern. Apr 18, 1931
 Apr 21, 1931—E FOURTEENTH Ave 225 S Santiago 30x129. J and H Mager to Mager Bros & Son.
 April 18, 1931
 April 21, 1931—E 24TH AVE 275 N Irving St. 25x129. C and J Caro to L H Cox.
 April 20, 1931—SE COR LOT 11 BLK 5825 St Marys Park W 24 N 36 deg 33 min W 94-84 N 3 deg 08 min E R 4-53 S 17 deg 03 sec E 124-082. A R Johnson to whom it may concern.
 April 16, 1931
 April 20, 1931—LOT 17 BLK 25 Map of The Crocker Amazon Tract. J Dall to whom it may concern.
 April 18, 1931
 April 20, 1931—W THIRTY-SECOND Ave 350 S Quintara St. S 50xW 120. F Hale to F F Balliet.
 April 17, 1931
 April 20, 1931—LOTS 46 AND 47 BLK 2947-A Map Sub 7, Miraloma Park. McCarthy Co to Meyer Bros.
 April 20, 1931—S RUSSIA AVE 50 and 75 W Naples 25x100. Joseph Novello to whom it may concern.
 April 20, 1931
 April 15, 1931—SE THORNTON Ave and Venice 55x100. N Faganini to D Delucchi & Son.
 April 19, 1931
 April 18, 1931—FELL AND BAKER. Southern Pacific Co to Barrett & Hilp (construct work).
 April 18, 1931
 April 18, 1931—FELL AND BAKER. Southern Pacific Co to Barrett & Hilp electrical, ventilating and plumbing.
 April 19, 1931
 April 18, 1931—E SEVENTEENTH Ave 175 S Vicente S 25x120. D T and A A Keefe to Standard Bldg Co.
 April 14, 1931

April 18, 1931—S RIVERA AND W 27th Ave S 25xW 82-6. B Mirsky & Son, Inc to Standard Bldg Co.
 April 16, 1931
 April 18, 1931—S RIVERA 52-6 W 27th Ave W 25xS 100. B Mirsky & Son, Inc to Standard Bldg Co.
 April 16, 1931
 April 18, 1931—NE DENING WAY 50 and Uranus Terrace 25 on Uranus Terrace. W H and A A Schrader to H C Mangels.
 April 15, 1931
 April 17, 1931—SW ARLETA AVE 125 NW Alpha NW 25xS W 100. S Moll to whom it may concern.
 April 11, 1931

April 17, 1931—SW NINETEENTH and San Carlos Ave W 97.5x85. Pacific Gas & Electric Co to Malott & Peterson, Capital Art Metal Co; Fordecker Corlice Works; James F Smith and F W Snook.
 April 11, 1931
 April 17, 1931—LOT 10 BLK 2356-A Sub. No. 7, Miraloma Park. The McCarthy Co to Meyer Bros.
 April 10, 1931
 April 16, 1931—NW EXETER AVE 225 and 250 NE Salinas Ave, 25x 100. Jas Finegan to whom it may concern (2 completions).
 Apr 16, '31
 April 16, 1931—SE COR PIERCE and Alhambra St E 97-47 diagonally 91-82-2 W 13-469 N 9-955 W 115-04 N 42-134. Paramount Bldg Corp. Ltd to whom it may concern.
 April 10, 1931
 April 15, 1931—W 17th Ave 150 S Noriega 25x120. Thomas D Gilpin to whom it may concern.
 April 15, 1931

April 15, 1931—NW CAYUGA AVE 120-826 SW Santa Rosa Ave SW 25x120 SW 129-820 N 34 deg 11 min E 25-456 SW 125-021. A A Wesendunk Jr to whom it may concern.
 April 15, 1931
 April 15, 1931—LOTS 67 and 70 BLK 3011. Monterey Heights. Meyer Bros to whom it may concern.
 April 14, 1931
 April 21, 1931—PTN LOT 4 BLK 33 West End Map 1 known as 232 Delano Ave. Walter R Koch to whom it may concern.
 April 20, 1931
 April 21, 1931—W NINETEENTH

Ave 100 N Quintara N 25xW 120. Harold S and Frieda A Brodie to R M Schaad.
 April 16, 1931
 April 21, 1931—E 1/2 TOLAND ST. from center line Hudson Ave to center line Innes Ave; W 1/2 Selby St. from center line Hudson Ave to center line Innes Ave.; S 1/2 Hudson Ave. from E line Toland to W line Selby St.; N 1/2 Innes Ave from E line Toland St. to W line Selby Street. Sharock Co to Granfield, Farrar & Carlin, McClure & Chamberlain, Sibley Grading & Teaming Co, H V Tucker Co (4 completions).
 April 13, 1931

LIENS FILED

San Francisco County

Recorded Accepted
 April 20, 1931—S SUTTER 97 E Divisadero E 40-6 x S 100. F Portman vs J and B Friedman and P Wiseman.....\$39.33
 April 29, 1931—NE THOMAS AVE 150 SE Jennings St SE 25 x NE 100. D Hayes vs R B and C E White and H F Larios.....\$105.55
 April 20, 1931—LOTS 9, 10 and 10A Blk 5581 Assessor's Map. Judson Pacific Co vs B and A Stone.....\$37.75
 April 18, 1931—W THIRTY-SECOND Ave 425 S Rivera S 25xW 120, Atlas Heating & Ventilating Co, Ltd vs D S Kavanaugh.....\$203.50
 April 16, 1931—SW SAN BRUNO AV 124 NW Burrows NW 48xSW 120, California Terrazzo & Marble Co vs B & A Stone.....\$28
 April 14, 1931—2230 20th AVENUE F Haupthoff vs G C George and A A Newhouse.....\$151.33

RELEASE OF LIENS

San Francisco County

Recorded Amount
 April 21, 1931—W GATES 24-54 N Ogden N 25xW 70. Bothe Bros vs A A Sanchez & V and A Orzanco.....\$15
 April 21, 1931—W GATES 49-54 N Ogden N 25-63 1/2 W 70 S 25-0 1/2 E 23-4 E 46-8. Bothe Bros vs A A Sanchez.....\$71

BUILDING PERMITS

ALAMEDA COUNTY

No. Owner	Contractor	Contractor Amt.
443 Niska	Owner	3500
444 Switzer	Owner	4100
445 Bruning	Nylander	5500
446 Jacob	Owner	2750
447 Smith	Pickler	5000
448 Coloin	Leckler	10900
449 Needham	Owner	23000
450 Brothten	Kostal	6500
451 Catera	Owner	2500
452 Wilkins	Pfrang	5700
453 Pfrang	Owner	5650
454 Wetmore	Schultz	11900
455 Watson	Velbis	1000
456 Foreman	Brunfield	1050
457 Pacific	Walker	509000
458 Rowden	Wendt	10000
459 Korpacy	Sommarstrom	4500
464 Johnson	Owner	3750
465 Meska	Owner	5500
466 Roberts	Owner	5000
467 Netherby	Owner	4000
468 Warn	Owner	4500
469 Foreman	De Velbiss	7000
470 Leightbody	owner	2300
460 Leekins	Owner	5000
461 Burke	Owner	2000
462 Canty	Inglis	5350
463 Mathias	Caskey	1700
471 Hitchcock	Swanson	4500
472 Gustafson	Owner	5000
473 Singrey	Rich	5700
474 Walgren	Owner	3500
475 Fleming	Owner	3750
476 Urch	Owner	6750

RESIDENCE
 (443) NO. 2245-47 BROWNING ST.
BERKELEY. One-story 8-room 2-family frame residence and garage.
 Owner—Aaro Niska, 1142 Allston Way, Berkeley.
 Architect—Not Given. \$3500
 RESIDENCE
 (444) NO. 1069 MILLER AVE., **BERKELEY.** Two-story 5-room 1-family frame residence.
 Owner—Lewis Switzer, Virginia St., Berkeley.
 Architect—J. F. Attermatl, 975 Euclid Ave., Berkeley. \$4400

DWELLING
 (445) NO. 900 **RODNEY DRIVE, SAN LEANDRO.** One and one-half-story seven room dwelling.
 Owner—R. M. Bruning.
 Architect—Not Given.
 Contractor—Nylander Bros., 633 Montclair Ave., San Leandro. \$5500

DWELLING
 (446) NO. 820 **JUANA AVE., SAN LEANDRO.** One-story four-room dwelling and garage.
 Owner—Harold P. Jacob, 607 Broadmoor Blvd., San Leandro.
 Architect—Not Given. \$2750

DWELLING
 (447) NO. 581 **OKES BLVD., SAN LEANDRO.** One-story six-room dwelling and garage.
 Owner—John W. Smith, 220 Bancroft Ave., San Leandro.
 Architect—Not Given.
 Contractor—J. H. Pickrell, 332 Santa Clara Ave., Alameda. \$5000

RESIDENCE
 (448) NO. 151 **SANDRINGHAM AVE. PIEDMONT.** Two-story 7-room frame residence and garage.
 Owner—Timothy E. Colvin, 461 Bellevue Ave., Oakland.
 Architect—Newsom & Newsom, Russ Bldg., San Francisco.
 Contractor—C. W. Leekins, 1650 Hopkins St., Oakland. \$10,000

DWELLING
 (449) N **BENNETT ST. 125 E Guido Road, OAKLAND.** One-story 5-room dwelling.
 Owner—W. G. Neetham, 204 First National Bank Bldg., Oakland.
 Architect—Not Given. \$3000

DWELLING
 (450) N **HOOVER AVE 150 E Leimert Blvd., OAKLAND.** Two-story 6-room dwelling.
 Owner—Clara Brownthen, 1421 Allman St., Oakland.
 Architect—Not Given.
 Contractor—Peter Kostal, 3221 Florida St., Oakland. \$6500

DWELLING
 (451) NO. 1716 **NINTH ST., OAKLAND.** One-story 6-room dwelling.
 Owner—L. Catera, 1777 Ninth St., Oakland.
 Architect—Not Given. \$2500

DWELLING
 (452) W **BUENA VISTA AVE 300 S Acacia Ave., OAKLAND.** One-story 5-room dwelling.
 Owner—Alfred Roy Wilkins, 138 Monte Cresta Ave., Oakland.
 Architect—Not Given.
 Contractor—H. C. Pfrang, 5659 Ocean View Drive, Oakland. \$5700

DWELLING
 (453) N **BUENA VISTA AVE 1250 W Contra Costa Road, OAKLAND.** One-story 5-room dwelling.
 Owner—H. C. Pfrang, 5659 Ocean View Drive, Oakland.
 Architect—Not Given. \$5650

RESIDENCE
(454) NO. 636 SAN LUIS ROAD, BERKELEY. Two-story 7-room frame and stucco residence and garage.

Owner—Dr. C. Wetmore, 1873 San Juan Ave., Berkeley.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
Contractor—H. K. Schultz, 811 Mendocino St., Berkeley. \$11,000

ALTERATIONS
(455) NO. 2620 CHANNING WAY, BERKELEY. Alterations.

Owner—O. Watson.
Architect—Not Given.
Contractor—Dudley De Veibus, 354 Hobart St., Oakland. \$1000

MARQUEE
(456) NE TWELFTH AND WASHINGTON STS., OAKLAND. Marquee.

Owner—Foreman & Clark, 12th and Washington Sts., Oakland.
Architect—Not Given.
Contractor—Brumfield Electric Sign Co., 965 Folsom St., San Francisco. \$1000

STORE
(457) NW TWENTY-FIRST AND BROADWAY, OAKLAND. Eight-story concrete store building.

Owner—Pacific States Auxiliary Corp. 745 Market St., San Francisco.
Architect—Albert F. Roller, Crocker 1st National Bank Bldg., S. F.
Contractor—P. J. Walker Co., 607 Sharon Bldg., San Francisco. \$500,000

DWELLING
(458) SE VICKSBURG & YGNACIO AVE., OAKLAND. One-story 7-room dwelling.

Owner—E. C. Rowden.
Architect—Not Given.
Contractor—G. H. Wendt, 2116 Allenton Way, Berkeley. \$10,000

ALTERATIONS
(459) NO. 221 E-FOURTEENTH ST., OAKLAND. Alterations and additions.

Owner—Michael Korpacy, Premises.
Architect—Not Given.
Contractor—M. F. Sommarstrom, 728 E-17th St., Oakland. \$4500

RESIDENCE
(460) NO. 1016 CRAGMONT AVE., BERKELEY. One and one-half-story 6-room 1-family frame residence.

Owner—G. W. Leekins, 1650 Hopkins St., Berkeley.
Architect—Not Given. \$5000

RESIDENCE
(461) NO. 1227 OXFORD ST., BERKELEY. One-story 3-room 1-family frame residence.

Owner—Dr. D. Burke, 1229 Oxford St., Berkeley.
Architect—Not Given.
Contractor—H. C. Erick, 1341 Josephine St., Berkeley. \$1950

DWELLING
(462) NW COR. CREED AND HOLMAN ROADS, OAKLAND; one-story six-room dwelling and 1-story garage.

Owner—H. V. Cauty, 359 Walker Ave., Oakland.
Architect—Not Given.
Contractor—C. L. Ingler, 150 Alta Rd., Oakland. \$5350

ADDITION
(463) 5922 MONADNOCK WAY, OAKLAND; addition.

Owner—M. D. Mathias, 5922 Monadnock Way, Oakland.
Architect—Not Given.
Contractor—H. T. Caskey, 5922 Maurretania Ave., Oakland. \$1700

DWELLING
(464) E MONTEREY BLVD. 210 S Redwood Road, OAKLAND; one-story 6-room dwelling.

Owner and Builder—O. W. Johnson, 366 Magee Ave., Oakland.
Architect—Not Given. \$3750

DWELLING
(465) N QUIGLEY ST. 150 W 38th Ave., OAKLAND; one-story six-room dwelling and 1-story garage.

Owner and Builder—S. V. Meksa, 3333 Brookdale Ave., Oakland.
Architect—Not Given. \$5000

DWELLING
(466) N PROCTOR AVE. 50 E Agnes St., OAKLAND; one-story 6-room dwelling.

Owner & Builder—R. G. Roberts, 3001 Fulton St., Berkeley.
Architect—Not Given. \$5000

DWELLING
(467) S PROCTOR AVE. 35 W Julia St., OAKLAND; two-story 6-room dwelling.

Owner and Builder—W. A. Netherby, 3353 Lyman Road, Oakland.
Architect—Not Given. \$4000

DWELLING
(468) S MONTEREY BLVD. 50 W Atlas Ave., OAKLAND; one-story 6-room dwelling.

Owner and Builder—Warn Bros., 418 E Merle Court, San Leandro.
Architect—Not Given. \$4500

ALTERATIONS
(469) NE COR. TWELFTH & WASHINGTON STS., OAKLAND; alterations.

Owner—Foreman & Clark, 12th and Washington Sts., Oakland.
Architect—H. K. Knauer, Los Angeles
Contractor—C. D. DeVelbiss, 354 Hobart St., Oakland. \$7000

DWELLING
(470) E 63RD AVE. 200 N Monadnock Way, OAKLAND; one-story four-room dwelling.

Owner and Builder—P. Leightbody, 3243 63rd Ave., Oakland.
Architect—Not Given. \$2300

DWELLING
(471) S HOOVER AVE 145 E Edge Drive, OAKLAND. One-story 6-room dwelling.

Owner—Earl Hitchcock.
Architect—Not Given.
Contractor—A. W. Swanson, 3045 California St., Oakland. \$4500

DWELLING
(472) S WELLINGTON 518 E La Cresta Ave., OAKLAND. One-story 5-room dwelling.

Owner—H. Gustafson, 1508 Albany Terrace, Berkeley.
Architect—Not Given. \$5000

DWELLING
(473) NO. 1663 TRESTLE GLEN RD., OAKLAND. One-story 5-room dwelling.

Owner—Ross J. Singrey,
Architect—Not Given.
Contractor—Jas. L. Rich, 1075 Stanford Ave., Oakland. \$5700

STOREROOM
(474) NE E-SEVENTH AND KENNEDY STS., OAKLAND. One-story brick storeroom.

Owner—Chas. Waigren, E-7th St. and 23rd Ave., Oakland.
Architect—Not Given. \$2000

DWELLING
(475) N VICTOR AVE 176 E 35th Ave., OAKLAND. One-story 6-room dwelling.

Owner—John Fleming, 4261 Suter St., Oakland.
Architect—Not Given. \$3950

DWELLING
(476) NO. 5732 IVANHOE ROAD, OAKLAND. Two-story 7-room dwelling.

Owner—Ernest W. Urch, 1924 50th Ave., Oakland.
Architect—Not Given. \$6700

BUILDING CONTRACTS

ALAMEDA COUNTY

No. Owner	Contractor	Paige
71 R C Archbishop	Faggioni	94
72 Fish	Paige	101

SCHOOL
(71) BOUNDTY BY EDITH ST Dulich Road, Jacobus Ave. a Morpeth St., Oakland. All wo for painting and decorating hi school building.

Owner—Roman Catholic Archbish of San Francisco, 1100 Frank St., San Francisco.

Architect—H. A. Minton, Bank America, San Francisco.

Contractor—Faggioni Co., Studi San Francisco.

Filed April 18, '31. Dated April 1, '31. On 1st of each month..... 75

Usual 35 days..... B alan

Bonds (2) \$9600 each. Surety, Act Casualty & Surety Co. Limit, Au 15, 1931. Forfeit, none. Plans a specifications filed.

NOTE—Assigned by Owner to Jo L. McLaughlin Co.

RESIDENCE
(72) LOT 198, St James Wood, Piedmont, (198 Sandringham Rd. general construction on two-sto and basement 12-room residence

Owner—Spencer C. Fish, 1736 Franklin St., Piedmont.

Architect—Ray F. Keefer, 3281 Lakeshore, Oakland.

Contractor—Harold L. Paige, 5651 Os Grove, Oakland.

Filed April 20, '31. Dated April 18, '31. When frame is up..... \$3303.

When brown coated..... 3303.

When ready for paint..... 3303.

When completed..... 3303.

Usual 35 days..... 3303.

TOTAL COST \$16,500.

Bond \$16,326. Sureties, National Surety Co. Limit, 100 days. Spec. filed.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded	Accepte
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April 21, 1931—SE PTDN LOTS 8, 9 and 10 Blk 20, McLeod Tract, Livermore. Thomas V and Bertha M Church to Merrill Bros..... April 14, 1931

April 21, 1931—NO. 3051 ADELIN St., Berkeley. Wm M Hull to H T Caskey..... April 22, 1931

April 21, 1931—NO. 2507 EIGHTIETH Ave., Oakland. C F Lodge to whom it may concern..... April 20, 1931

April 20, 1931—LOT 264, Unit No 2 Avenue Terrace, Oakland. John Fleming to whom it may concern..... April 20, 1931

April 20, '31—300 CAKES BLVD, San Leandro. Anthony L and Louise A Erista to Chester A Gossett..... April 16, 1931

April 18, 1931—NW SIXTH AVE 160 NE E-18th St., Oakland. F A Cleveland Co, Ltd to M Elgarten..... April 17, 1931

April 18, 1931—LOT 16 BLK 3, Highland Manor, Oakland. Walter C Mitchell to Leo J Dolan. April 14, 1931

April 18, 1931—NO. 2903 OTIS DRIVE Alameda. Sidney J Dowling to Sidney J Dowling..... April 16, 1931

April 17, 1931—LOT 3, Mount Vernon Park Tract, Oakland. C W and Mary Belle Leekins to whom it may concern..... April 14, 1931

April 17, 1931—LOT 63 BLK D, Ferrisside, Alameda. C A McKinley to Walter H Anderson..... April 17, 1931

April 16, 1931—LOT 42 BLK 5, Map No. 7, Regents Park, Albany. Wm K McInnes to whom it may concern.....

er.....April 11, 1931
 rll 16, 1931—PTN LOTS 261 AND
 23, Terminal Junction Tract,
 Albany. Donald B Adams to Don-
 ald B Adams.....April 15, 1931
 rll 16, 1931—LOT 259 and S 3 1/2 ft.
 of 261, Terminal Junction Tract,
 Albany. Donald B Adams to
 Donald B Adams.....April 14, 1931
 rll 16, 1931—LOTS 1 AND 2 BLK 3,
 Lakeside Subdv of Adams
 Joint Property, Oakland. Harry
 and Esther Schuster to whom it
 may concern.....April 11, 1931
 rll 16, 1931—NO. 3223 MORCOM
 Ave., Oakland. Salem Luth-
 ran Home Assn of the Bay Cities,
 Inc to Fred J Swartlund.....April 14, 1931
 rll 16, 1931—NO. 815 SAN DIEGO
 Road, Berkeley. J C Edwards to
 whom it may concern.....April 16, 1931
 rll 16, 1931—NO. 3223 MORCOM
 Ave., Oakland. J D McCabe to
 whom it may concern.....April 16, 1931
 rll 15, 1931—LOT 18, Mount Ver-
 non Park Tract, Oakland. Vernon
 F Brown to Fred Hambleton.....
 April 15, 1931
 rll 16, 1931—1360 MARIN AVE,
 Albany. E Reininghaus to whom
 it may concern.....April 13, 1931
 rll 15, 1931—931 MENDOCINO
 Ave, Berkeley. D Ben Replogle to
 R Beadell and Geo J Lane.....
 April 11, 1931
 rll 15, 1931—4951 PROCTOR AVE,
 Oakland. Roy J Swartlund to Self.
April 14, 1931

LIENS FILED

ALAMEDA COUNTY

Recorded Amount
 rll 18, 1931—LOT F-131, Fairway
 Estates in Oak Knoll, Oakland.
 Transit Concrete Ltd vs Russell D
 Ellis and Ernest R Jervis.....\$73.43
 rll 17, 1931—LOT 2, Garden of
 Eden Tract, Oakland. W F Gar-
 rett (as Garrett Mill & Lumber Co
) vs J C Bonham.....\$58.50
 rll 16, 1931—LOT 3 BLK 5, Ber-
 keley Square, Berkeley. Sunset
 Lumber Co vs Frank H Felt.....\$315.16
 rll 16, 1931—LOT 3 BLK 5, Ber-
 keley Square, Berkeley. Sunset
 Lumber & Mill Co vs Frank H
 Felt.....\$79.25
 rll 14, 1931—1424 E 31st STREET,
 Oakland. Bay Cities Astestos Co,
 Ltd vs Maud M Hammond, Harry
 H Wolbert\$278

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded Amount
 rll 18, 1931—LOT 5 BLK 856-F,
 Piedmont Knoll Heights, Oak-
 land. Carl T Doell Co to E E
 and Rose Foley and H W Merritt
\$73.07
 rll 18, 1931—LOT 5 BLK E, Pied-
 mont Knoll, Oakland. Cliff Gates
 to E E and Rose Foley and H W
 Merritt\$74.56
 rll 16, 1931—PTN LOT 10, Map of
 the Land of the Brooklyn Land
 Co, Oakland. W F Garrett (as
 Garrett Mill & Lumber Co) to M
 S Sommers\$18.54

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$4000; E 20 ft, Lot 3
 and W 20 ft. Lot 4 Blk 4, 26th
 Ave., San Mateo; owner, Castle
 Bldg. Co., El Camino and Allen
 Ave. San Mateo; plans by Dan-
 iel E. Jackle, 744 Call Bldg., San
 Francisco.
 RESIDENCE, \$4000; 30 ft. Lot 4 and E
 10 ft. Lot 5 Blk 5, 25th Ave., San
 Mateo; owner, Castle Bldg. Co.,
 El Camino and Allen Ave., San

Mateo; plans by D. E. Jackle, 744
 Call Bldg., San Francisco.
 RESIDENCE, \$4000; Cor. Lots 22 and
 23 Blk 7, 25th Ave., San Mateo;
 owner, Castle Bldg. Co., El Camino
 and Allen Ave., San Mateo; plans
 by D. E. Jackle, 744 Call Bldg.,
 San Francisco.
 RESIDENCE, \$4000; W 30 ft. Lot and
 E 10 ft. Lot 4 Blk 3, 26th Ave.,
 San Mateo; owner, Castle Bldg.
 Co., El Camino and Allen Ave.,
 San Mateo; plans by D. E. Jackle,
 744 Call Bldg., San Francisco.
 RESIDENCE, \$4000; W 10 ft. Lot 7
 and E 30 ft. Lot 8 Blk 5, 26th Ave.,
 San Mateo; owner, Castle Bldg.
 Co., El Camino and Allen Ave.,
 San Mateo; plans by D. E. Jackle,
 744 Call Bldg., San Francisco.
 RESIDENCE, \$5000; Part Lots 6 and
 7 Blk C, No. 115 Grand Ave., San
 Mateo; owner and contractor, Ed-
 ward Ltd, 132 N-Fremont St., San
 Mateo.
 BUNGALOW, \$4000; Lot 10 Blk 29, No.
 150 N-Clement St., San Mateo;
 owner, John Engle, 140 N-Clear-
 mont St., San Mateo; contractor,
 Louis F. Beltramo.
 RESIDENCE, \$4000; Lot B, Resub.
 112-113, No. 1826 Palm Ave., San
 Mateo; owner, Leonard Hulberg,
 29 San Mateo Ave., San Mateo;
 contractor, Hugo Hulberg, 29 San
 Mateo Ave., San Mateo.

BUILDING CONTRACTS

SAN MATEO COUNTY

RESIDENCE
 LOTS 44 AND 45 BLK 22, Huntington
 Park. One-story frame residence
 and garage.
 Owner—J. W. Cappin.
 Architect—Not Given.
 Contractor—Ruben A. White, 771
 Edgewood Road, San Mateo.
 Filed April 17, '31. Dated April 13, '31.
 Frame up\$767.50
 Brown coated767.50
 Completed767.50
 Usual 35 days757.50
 TOTAL COST, \$3070.00
 Bond, none. Limit, 60 working days.
 Forfeit, \$100. Plans and specifications
 none.
 STORE BLDG.
 SW BROADWAY AND LAGUNA ST.,
 Burlingame. All work for two-
 story reinforced concrete store and
 apartments above.
 Owner—Stelling & Gould, Ltd., 155
 Montgomery St., San Francisco.
 Architect—Bertz, Winter & Maury,
 210 Post St., San Francisco.
 Contractor—Chas. Pederson, 734 Pros-
 pect St., San Mateo.
 Filed April 18, '31. Dated April 18, '31
 As work progresses..... 75%
 Usual 35 days 25%
 TOTAL COST, \$14,916
 Surety, United States
 Guaranty Co., Limit, 55 working days
 Forfeit, none. Plans and specifications
 filed.

BUILDING

LOT 7 BLK 39, Redwood Highlands.
 All work for one-story frame and
 stucco building.

Owner—M. K. White.
 Architect—Owner.
 Contractor—Buschke & Johnson, 235
 Third Ave., San Mateo.
 Filed April 16, '31. Dated April 1, '31.
 Frame up\$1783.50
 Plastered1783.50
 Completed1783.50
 Usual 35 days1783.50
 TOTAL COST, \$7134.00
 TOTAL COST \$6634+Street Fee \$500
 Bond, none. Limit, 90 working days.
 Forfeit, none. Plans and specifications
 filed.

RESIDENCE

LOT 22 BLK 25, Milbrae Highlands.
 All work for one-story and base-
 ment frame and stucco residence.
 Owner—Theodore C. Romahn et al,
 San Francisco.
 Architect—Chas. F. Strothoff, 2274 15th
 St., San Francisco.
 Contractor—Arne M. Arneson, San
 Francisco.
 Filed April 16, '31. Dated Mar. 28, '31.
 Sheathed\$1125
 Brown coated1125
 Completed1125
 Usual 35 daysBalance
 TOTAL COST, \$5500
 Bond, none. Limit, 90 working days.
 Forfeit, none. Plans and specifications
 filed.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
 April 15, 1931—LOT 13 BLK 45,
 Burlingame. Norman J Robertson
 et al to Ruben White.....April 1, 1931
 April 15, 1931—LOT 15 BLK 1, Hay-
 ward Park, San Mateo. John L
 Technor to Wallace Waterhouse
April 14, 1931
 April 16, 1931—ROAD REDWOOD
 to Willow Road. State of Calif. to
 Basich Bros Constr Co.....April 11, 1931
 April 17, 1931—LOT 13 BLK 11,
 Easton. Thomas N Gesso to
 whom it may concern.....April 15, 1931
 April 17, 1931—LOT 21 AND PART
 LOT 22 Blk 7, Blossom Heath
 Manor. Castle Bldg Co to Henry
 Horn.....April 14, 1931
 April 17, 1931—NO. 670 BREWER
 Drive, San Mateo. Ethel S Hen-
 derson to G W Williams Co.....
 April 3, 1931
 April 18, 1931—LOT 29 BLK 18, Bay-
 wood. Morris Sorensen et al to
 whom it may concern.....April 17, 1931
 April 18, 1931—LOT 4 BLK 22, Lo-
 mita Park. F M McNulty to E W
 Latimer.....April 16, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded Amount
 April 15, 1931—LOTS 48 AND 49
 Blk 12, Belle Air Park. California
 Terrazzo Co vs Louis Sanders et
 al\$68
 April 15, 1931—LOT 12 BLK A, Fay's
 Redwood Gardens. J F Bell vs
 J G Lehman.....\$112
 April 17, 1931—LOT 3 BLK 12,
 Woodside Glens. Sudden Lumber
 Co vs Alexander Beckman.....\$751.55

Member Insurance Brokers' Exchange

FRED H. BOGGS
 INSURANCE
 490 GEARY STREET

Phone FRanklin 9400 San Francisco

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded Amount
 April 14, 1931—LOT 59, Studio Tract
 Daniel J McDonald to Joseph C
 Borda et al
 April 15, 1931 — LOCATION NOT
 Given, Gertrude E Kavanagh to
 Dyer Constr Co full \$191
 April 16, 1931—LOT 59, Studio Tract
 Nelson & Shirley Flaming Hill to
 whom it may concern Full
 April 18, 1931 — LOCATION NOT
 Given. M Rossen to whom it may
 concern.....

BUILDING PERMITS

BURLINGAME

BUNGALOW, \$4800; Lot 1 Blk 1, Mills
 St., Burlingame; owner, W. D.
 Dutton, 1112 Rhinette St., Burlingame;
 contractor, J. W. Jordan
 1340 Capachino St., Burlingame.
 RESIDENCE, \$7000; Lot 26 Blk 56,
 Vancouver St., Burlingame; owner
 and contractor, C. O. Dibble,
 1114 Broadway, Burlingame.
 RESIDENCE, \$5800; Lot 10 Blk 7, Oak
 Grove Ave., Burlingame; owner,
 Jean Pedeparade, 1755 Oak Grove
 Ave., Burlingame; contractor, E.
 Nøberg, 832 Morrell St., Burlingame.

BUILDING PERMITS

SAN JOSE

RESIDENCE, 5-room, frame, \$4000;
 St. John St. near 30th St. San Jose;
 owner and contractor, J. J. Curry,
 Rt. 1, Box 786, San Jose.
 ALTER frame residential building,
 \$1250; No. 232 S-Tenth St., San
 Jose; owner, Residential Country
 Club, Inc., Premises; contractor,
 J. F. Deutsch, White Road, San
 Jose.
 STORE and residence, frame, (bal-
 ance account under valuation per-
 mit, 235), \$3455; Delmas and
 Marshall Sts., San Jose; owner, D.
 Dellamagorice, Frenchis; architect
 Wolfe & Higgins, 19 N-Second St.,
 San Jose; contractor, A. Giacalone
 240 Race St., San Jose.
 RESIDENCE, frame, 4-room, \$1500;
 No. 766 Walnut St., San Jose;
 owner, R. Soderquist, Premises.
 BUSINESS building, 1-story Class C,
 \$4150; First near Sutter St., San
 Jose; owner, Henry Guilbert, Lo-
 cust and San Fernando Sts., San
 Jose; contractor, Wm. Caldwell,
 1241 Hedding St., San Jose.
 BUSINESS building, 1-story Class C,
 \$4250; First near Sutter St., San
 Jose; owner, Cimino Bros., 81 N.
 First St., San Jose; architect,
 Wolfe & Higgins, 19 N-Second St.,
 San Jose; contractor, Vincent
 Maggio, 452 N-15th St., San Jose.
 GASOLINE service station, \$5000;
 Park and Hester Sts., San Jose;
 owner, Louise Wahlberg, 4 Rich-
 mond Ave., San Jose; contractor,
 W. H. Ball, 1288 Lupton St., San
 Jose.
 RESIDENCE, frame, 6-room, \$5000;
 Riverside near Coe St., San Jose;
 owner, A. G. Goldstein, Rt. 3, Box
 430, Los Gatos.

BUILDING PERMITS

PALO ALTO

RESIDENCE and garage, \$5000; No.
 2321 Tasso St., Palo Alto; owner,
 E. E. Hobby, 2320 Tasso St., Palo
 Alto.
 RESIDENCE, rustic, \$6000; No. 1161
 Greenwood Ave., Palo Alto; owner,
 W. P. Walker, 1167 Greenwood

Ave., Palo Alto; contractor, A. C.
 Heald, 1921 University Ave., Palo
 Alto.
 RESIDENCE, stucco, \$5000; No. 2330
 Tasso St., Palo Alto; owner, E. F.
 Burkhardt.
 RESIDENCE, stucco, \$4000; No. 142
 Santa Rita Ave., Palo Alto; own-
 er, Grace G. Gibson; contractor,
 E. H. Gibson.
 RESIDENCE (stucco), \$3000; No. 693
 Cornell St., Palo Alto; owner, C.
 B. Van Epps.
 RESIDENCE, stucco, \$6000; No. 2343
 Cowper St., Palo Alto; owner, C.
 D. Hunt; contractor, Osborne &
 Knight.

BUILDING PERMITS

REDWOOD CITY

DWELLING, frame, 5-rooms, bath and
 garage, \$7000; No. 32 King St.,
 Redwood City; owner, M. K.
 White; contractor, Buschke &
 Johnson, 235 3rd Ave., Redwood
 City.
 DWELLING, frame, 5-rooms, bath
 and garage, \$3300; 4 Orchard Ave.,
 Redwood City; owner, John Re-
 ppetti; contractor, A. C. Campi.
 DWELLING, frame, six-rooms, bath
 and garage, \$7000; No. 837 Brew-
 ster Ave., Redwood City; owner
 and contractor, T. S. Karp, 224
 Iris St., Redwood City.
 DWELLING, frame, 3-story 7-rooms,
 2 baths and garage, \$8000; No. 78
 Melrose Place, Redwood City; own-
 er, H. L. Morissette, 918 Chula
 Vista Ave., Burlingame; contrac-
 tor, Russell & Duncan.
 DWELLING, frame, 6-rooms, bath &
 garage, \$5250; No. 273 Hudson St.,
 Redwood City; owner, Walton J.
 Maloney; contractor, W. H. Mac-
 Donald, Crystal Springs Road,
 Belmont.

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
 April 6, 1931—LOT 20 BLK 13 S R 5
 West, Farley Subdivision. South-
 ern Lumber Co vs Ignazio F
 Fanari et al\$197.32

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted
 April 7, 1931—PETER H. BURNETT
 Junior High School, San Jose.
 San Jose High School District to
 whom it may concern (roofing
 work)March 31, 1931
 April 7, 1931—LOT 30 BLK 1, Lin-
 coln Gates. Paul F. Conroy et al
 to whom it may concernApril 6, 1931
 April 8, 1931—LOT 3 BLK 22, Seale
 Addition No. 1, Palo Alto. Harry
 Louise Engman to whom it may
 concernApril 8, 1931
 April 9, 1931—LOT 222 and N 15 ft.
 Lot 223, Cottage Grove Tract, San
 Jose. Salvatore Celuto to whom
 it may concernApril 8, 1931
 April 9, 1931—SE 53 FT. LOT 11
 and NW 3 ft. Lot 12 Blk 141, Em-
 barcadero Oaks, Palo Alto. Mary
 B. Morgan to whom it may concern
April 6, 1931
 April 9, 1931—LOT 19 BLK 142, Em-
 barcadero Oaks, Palo Alto. L E
 and Frances M Kinkham to whom
 it may concernApril 9, 1931
 April 9, 1931—LOT 15 BLK 204,
 South Court Addition, Palo Alto.
 Rose L Simmonds to whom it may
 concernApril 8, 1931
 April 11, 1931—LOTS 1 TO 4, Green-
 side Terrace, San Jose. T W Mac-
 Quarrie to whom it may concern
April 9, 1931

April 11, 1931—LOT 6, Sierra Par
 George W Olesen to whom it
 may concernApril 11, 1931

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
 April 10, 1931—LOT 94, Los Alam
 Acres. West Bay Lumber C
 \$225.24; Peninsula Bldg Mater
 Co. \$70.66 to Sydney A Beldin.....

BUILDING CONTRACTS

CONTRA COSTA COUNTY

DWELLING
 LOT 12 BLK 109, Legion Tr.
 Pittsburg. All work for one-sto-
 and basement frame dwelling.
 Owner—Sebastiano Cavallero, Pit-
 sburg.
 Architect—Not Given.
 Contractor—Horace J. Sino, 710 Blk
 Diamond St., Pittsburg.
 Filed April 10, '31. Dated Mar. 26, '31
 1st floor joists in place.....\$1
 1st coat plaster in place.....1
 Notice of completion filed.....1
 Usual 35 days.....15
 TOTAL COST, \$5.
 Bond, limit, forfeit, none. Plans at
 specifications filed.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 April 16, 1931—IN RANCHO MONTE
 del Diablo. E R Sparrow to whom
 it may concernMarch 1, 1931
 April 15, 1931—LOT 3 BLK 6, Foskett
 Addition No. 2, Town of Concord.
 Hugo Carlson to whom it may
 concernApril 15, 1931
 April 15, 1931—S 12.09 FT. LOT 19
 and all Lot 20 Blk 5, Richmond
 Traffic Center. George J Ger-
 manino to Elmer J Freethy.....
April 11, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 April 16, 1931—LOT 1 BLK D, Map
 No. 3, Portion of Parkside Addn
 and Racetrack Sub. The Diamond
 Match Co vs C E and Muriel Schad
\$2
 April 16, 1931—LOT 1 BLK D, No. 3
 Ptn Parkside Addn and Race-
 track Sub. Concord Ice & Fuel
 Co vs G E and Muriel Schad.....\$2
 April 16, 1931—LOT 1 BLK D No. 3
 Ptn Parkside Addn and Racetrack
 Sub. J J Birmingham, doing busi-
 ness as Birmingham Hardware
 Co vs George E Schad, also known
 as G E Schad and Muriel Schad.....
\$142.5
 April 17, 1931—LOT 1 BLK D, Map
 No. 3 of Portion of Parkside Addn
 and Racetrack Subdivn. E K
 Wood Lumber Co vs Geo E and
 Muriel Schad\$30
 April 17, 1931—BEING IN RANCHO
 Canada del Hambro, Northern
 Part. The Duncanson-Harrelson
 Co vs Petroleum Products Co and
 Western Oil Refining Co.....\$150

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 April 18, 1931—PROPERTY IN THE
 Town of Walnut Creek. California
 Water Service Co to C Dudley De
 VelbisApril 15, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Accepted
 April 15, 1931—E ½ LOT 1 BLK 33 Amount
 Mulberry Gardens No. 1. Tilden \$184.50
 owner & Mill Co vs Gussy C and
 E Rose.....

BUILDING CONTRACTS

MARIN COUNTY

Recorded Accepted
 April 15, 1931—Concrete and cement
 work, lathing and plastering, elec-
 trical work, painting, tile, plumb-
 ing, masonry, etc., on residence.
 Owner—Anita J Parker & Ada Scho-
 field, Sausalito.

Recorded Accepted
 April 15, 1931—Samuel L. Hyman et al, 68
 Post St., San Francisco.
 Contractor—Jacks & Irvine, 540 Call
 Bldg., San Francisco.

Recorded Accepted
 April 15, '31. Dated April 13, '31.
 Roof on.....\$1639
 Rough wiring.....1639
 Work completed.....1639
 Total 35 days.....1639
 TOTAL COST, \$6556

Recorded Accepted
 April 15, 1931—Plans, 65 days. Forfeit,
 n. e. Plans and specifications filed.

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
 April 17, 1931—SAN ANSELMO. Ed
 Rhoades to whom it may concern.....April 17, 1931

Recorded Accepted
 April 17, 1931—SAN RAFAEL.
 Charles E Clark to whom it may
 concern.....April 20, 1931

Recorded Accepted
 April 20, 1931—SAUSALITO. R D
 Hood to Leo Nichols. April 20, 1931

Recorded Accepted
 April 20, 1931—SAUSALITO. R D
 Hood to Leo Nichols. April 20, 1931

Recorded Accepted
 April 18, 1931—NEAR SAN RA-
 FAEL. R H Hood to Leo Nichols.....
 April 18, 1931

Recorded Accepted
 April 18, 1931—BAYSIDE ACRES.
 Earl San Rafael. Robert H Bond
 & J E Warner.....April 18, 1931

BUILDING CONTRACTS

MONTEREY COUNTY

Recorded Accepted
 April 15, 1931—LOTS 10, 13 AND 14 BLK 4.
 Tract 11, Hutton Plots, Monterey.
 All work for residence.

Recorded Accepted
 April 15, 1931—Adolph G. E. Hanke,
 architect—R. M. Eskel.
 Contractor—James V. K. Dowsett and
 Fred Ruhl also known as Dowsett-
 Ruhl Co., Pebble Beach.
 Dated April 15, '31. Dated April 9, '31.
 Time and material plus 50% com-
 mission for superintendent.

Recorded Accepted
 April 15, 1931—TOTAL COST, \$-
 id, limit, forfeit, plans and speci-
 fications, none.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
 April 15, 1931—LOT I AND PART
 of 4 as per Stone's Addition to
 Salinas at the NW Cor. Central
 Ave and Main St. James Tugonis
 & R V Thompson.....April 13, 1931

Recorded Accepted
 April 15, 1931—LOT 44 BLK 9, Geil,
 Lang & Kessel's Addn to Salinas
 City. Guy H Abbott to whom it
 may concern.....April 16, 1931

Recorded Accepted
 April 15, 1931—LOT 12 BLK 16%
 Map of Homestead Addition to
 Salinas City. J E Finn to whom
 it may concern.....April 4, 1931

Recorded Accepted
 April 15, 1931—FOREST & HILL-
 crest Aves., Pacific Grove. Pacifi-
 c Grove High School District to
 James A Nelson Inc.....April 7, 1931

LIENS FILED

MONTEREY COUNTY

Recorded Accepted
 April 13, 1931—LOT 8 BLK 24. Map
 of Monte Regio No. 1. The Work
 Lumber Co (Stuart A Work and
 T A Work Jr), \$391.73; C A Lewis,
 \$220; R & Tice, \$66.66; S Ruthven,
 \$64.58; Overhulse Bros (Marion W
 and F E Overhulse), \$346.75 vs
 Melvin A and Florence D Conger
 and W C Mann.....

Recorded Accepted
 April 12, 1931—LOT 32 BLK 2 Map
 2, Lakeside Tract, Monterey. Fred
 M Tolle vs Charles Williams.....\$30

Recorded Accepted
 April 14, 1931—Lot 34 Blk 2, Map
 2, Lakeside. Fred M Tolle vs
 Charles Williams.....\$40

RELEASE OF LIENS

MONTEREY COUNTY

Recorded Accepted
 April 14, 1931—LOT 14 BLK 95,
 Richmond Annex. A J Treat,
 Samuel T Bush and R C Ogden to
 whom it may concern.....\$642.44

Recorded Accepted
 April 14, 1931—LOT 14 BLK 96,
 Richmond Annex. Esther Kathrine
 Smith, formerly Esther Kathrine
 Leary to whom it may concern.....\$2738.85

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 April 15, 1931—LOT 9 BLK 3,
 Proctor Terrace, Santa Rosa. A
 G Rogers to Mutual Home Build-
 ers Assn.....April 13, 1931

Recorded Accepted
 April 16, 1931—PARTS LOTS 14 &
 15 Blk 2, Proctor Terrace, Santa
 Rosa. W E Baber to Mutual
 Home Builders Assn.....April 15, 1931

RELEASE OF LIENS

SONOMA COUNTY

Recorded Accepted
 April 17, 1931—LOT NO. C, 132 and
 part Lot 133, Subd 5, Cotati
 Rancho. Camm & Hedges to W J
 Marquart.....\$1784.42

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
 April 21, 1931—S ½ LOTS 17 AND
 18 Blk 2, Lakeside Terrace. J M
 Helberbrand to whom it may con-
 cern.....April 20, 1931

BUILDING PERMITS

STOCKTON

DWELLING, brick veneer, 6-room
 and garage, \$4000; No. 27 East
 Adams St., Stockton; owner, Lu-
 ther Renfro, 1444 N-Baker St.,
 Stockton; contractor, J W J. Str-
 horn.

BUILDING PERMITS

SACRAMENTO

RESIDENCE, 7-room, \$5000; No. 2232
 Ninth Ave., Sacramento; owner,
 George Lawrence, 4948 10th Ave.;
 contractor, Lawrence & McCarthy
 4948 10th Ave., Sacramento.

RESIDENCE, 5-room, \$5000; No. 2771
 13th St., Sacramento; owner, Jos.
 Pedone, 914 S Street, Sacramento.

RESIDENCE, 6-room & garage, \$5000;
 2979 Govan Way, Sacramento;

owner, Jas. T. Ransdall, 1424 38th
 St., Sacramento.

RESIDENCE, 7-room, \$6000; No. 400
 37th St., Sacramento; owner,
 Harney A. Miller, 4355 3rd Ave.,
 Sacramento.

RESIDENCE, 6-room, \$4900; No. 3724
 Serman Way, Sacramento; owner,
 Richard H. Higgins; contractor,
 John Fernandez, 604 N St., Sacra-
 mento.

ACADEMY, \$22,600; No. 800 F St.,
 Sacramento; owner, St. Joseph
 Academy; contractor, Azaveda &
 Sarmiento, 920 O St., Sacramento.

ADD second story, \$1000; No. 1005 E
 St., Sacramento; owner, Mrs. Sadie
 Eilsa, 920 C St., Sacramento.

RESIDENCE, \$6000; No. 3829 McKin-
 ley Blvd., Sacramento; owner, H.
 P. Leak, Auburn; contractor,
 Thos. A. Scott, 1602 11th St., Sacra-
 mento.

RESIDENCE and garage, \$4950; No.
 1640 41st St., Sacramento; owner
 and contractor, N. Lund, 2549 6th
 Ave., Sacramento.

HOUSE and garage, \$3720; No. 5220 J
 St., Sacramento; owner, J. Miller.
 RESIDENCE & garage, \$5000; No. 731
 48th St., Sacramento; owner, O.
 Froling, 1625 40th St., Sacramento.

RESIDENCE and garage, \$5500; No.
 1640 11th Ave., Sacramento; owner,
 A. Greeman, 4041 11th Ave., Sacra-
 mento.

RESIDENCE and garage, \$4750; No.
 2217 9 Ave., Sacramento; owner,
 N. Lund, 2549 6th Ave., Sacramento.

RESIDENCE and garage, \$4500; No.
 139 57th St., Sacramento; owner,
 F. Banducci, 1301 57th St., Sacra-
 mento; contractor, F. Sarmiento,
 2030 24th St., Sacramento.

RESIDENCE and garage, \$5000; No.
 1124 3rd Ave., Sacramento; owner,
 G. McCarthy, Rt. 1, Box 363, Del
 Rio Ave., Sacramento; contractor,
 M. Terra, 2315 9th Ave., Sacra-
 mento.

HOUSE and garage, \$4800; No. 1676
 14th St., Sacramento; owner, G.
 Lawrence, 4948 10th Ave., Sacra-
 mento; contractor, Lawrence &
 McCarthy, 4948 10th Ave., Sacra-
 mento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
 April 15, 1931—LOT 10, Carly Park,
 Sacramento. H M Dunkel to
 whom it may concern.....April 13, 1931

Recorded Accepted
 April 15, 1931—LOT 37, Howell
 Clark Tract, Sacramento. Harry
 F Jensen to whom it may concern.....
 April 13, 1931

Recorded Accepted
 April 17, 1931—LOT 10, Gerber
 Court, Sacramento. J H Mc-
 Mahon to whom it may concern.....
 April 14, 1931

Recorded Accepted
 April 17, 1931—LOT 87, Ridge Park,
 Sacramento. John Dandretta to
 whom it may concern.....April 10, 1931

LIENS FILED

SACRAMENTO COUNTY

Recorded Accepted
 April 18, 1931—LOTS 3-TO 11 INC.,
 Alhambra Tct., Sacramento. Lyon
 Darwin Hardware Co vs Edward
 and Frances Wahl; Edward and
 Zue Geery Pease and Fred
 Kaiser.....\$278.58

BUILDING PERMITS

FRESNO

DWELLING and garage, \$4000; No.
 611 Cambridge Ave., Fresno; own-
 er and Contractor, A. F. Lambert,
 1576 Poplar St., Fresno.

DWELLING, brick veneer, 6-rooms and garage, \$4250; No. 527 West Rose St., Fresno; owner, Engle Williams; contractor, F. R. Dobson, 4132 Jensen St., Fresno.
 DWELLING and garage, \$9750; No. 350 Terrace Ave., Fresno; owner, Taylor-Wheeler, Inc., Power Co. Bldg., Fresno.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 April 19, 1931—LOTS 9 AND 10 BLK 27, Sierra Vista Addition, Fresno. Lloyd L Turner to whom it may concern.....April 16, 1931
 April 18, 1931—LOTS 11 AND 12 BLK 1, College Addition, Fresno. A R Eklund to whom it may concern.....April 18, 1931
 April 18, 1931—LOT 42, E Elmhurst Harry P Nelson to whom it may concern.....April 18, 1931
 April 10, 1931—LOT 49 E 20 ft. Lot 50 Bk 11, College Addition, Fresno A F Lambert to whom it may concern.....April 9, 1931
 April 15, 1931 — LOTS 47 AND 48 Bk 69, Sierra Vista Addition No. 4, Fresno. A J Powell to whom it may concern.....April 14, 1931
 Recorded Accepted
 April 14, 1931—LOTS 22 AND 23 Bk 1, High Addn, Fresno. Alice B and A H Olsen to Fisher & McNulty.....April 9, 1931

LIENS FILED

FRESNO COUNTY

Recorded Amount
 April 18, 1931—W 25 FT. OF E 50 ft. Lots 17 to 21 Bk 58, Clovis. Stewart & Nuss, Inc vs Pietro and Anna Lavia.....\$12
 April 20, 1931—PART LOTS 17 TO 21 Bk 28, Colvis. W P Fuller & Co vs Peter Lavia et ux.....\$124

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone SUtter 1684).

R-3545-S WORKING PARTNER, for outside sales promotion of ornamental metal work. Prefer man with architectural experience and sales ability who is prepared to finance self during trial period. Business is established. Location, San Francisco.
 R-3544-S GRADUATE ENGINEER, age 44, with California registration and electrical engineering experience, desires to connect with an established engineering firm in the capacity of partner. Has some capital to invest where hard work and application will pay dividends. Address communications in care of this office.
 R-3541-S CIVIL ENGINEER, graduate, about 35 years old, American, with experience in bridge building, caisson, pier and air-lock work and fore shore protection. Prefer single man who has worked for contractor. Location, South China. Salary 1000 Shanghai taels per month on a four-year contract, providing first class passage both ways and six months leave on full pay on completion. Apply by letter with details of experience for prompt action. Employer's representative in Vancouver, B. C.
 R-3543-S MECHANICAL DRAFTSMAN, experienced on auto trailer drawings, for layout and details. Only this experience considered. Salary open. Location, San Francisco.

R-3533-S ENGINEER, preferably between 30 and 35 years of age, with experience on highway work and general construction such as bridges, culverts, grade separations, etc., for work with a contractor. Must be qualified for both field and office. Salary depends upon experience. Headquarters, San Francisco or Oakland.

R-3309-S ENGINEER, preferably E. E. or M. E. graduate, not over 30, single, good personality and considerable mechanical ability, for service work and testing of hydraulic machinery. Must have experience in hydro-electric plant construction or operation. Salary about \$175 per mo. Apply by letter with photo, Headquarters, San Francisco.

BRIDGE TOLL BILL BEFORE LEGISLATURE

A bill which, if enacted, will cost the users of the Carquinez Bridge approximately \$40,000,000, based on present tolls, in twenty-five years, is before the legislature.

Introduced by Assemblyman Robert Easley, Antioch, the measure would permit the board of supervisors of Contra Costa County to extend for twenty-five years the franchise under which the Carquinez Bridge is operated between Vallejo and Crockett.

According to Easley, the measure is an enabling act, which would allow the supervisors to extend franchises in similar cases. Actually, however, it applies to the Carquinez span.

The present franchise expires in 1947. Twenty-five years more, to 1972, it is estimated, would result in \$40,000,000 additional tolls to be paid by automobile drivers.

"Other bridges in the state of California operate under a fifty-year franchise act approved by the legislature of 1923," Easley said. "We believe that, because the Carquinez Bridge was constructed before that date, that it should not have a term of life of less years." At the conclusion of the

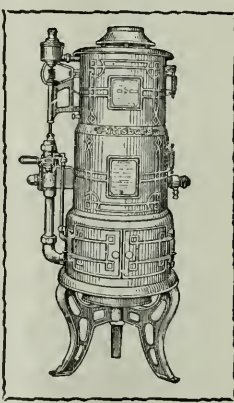
present franchise the title of the bridge would be vested in Contra Costa County.

Four years ago a similar measure extending the franchise for ten years was vetoed by Governor C. C. Young.

BETHELEHEM STEEL ACQUIRES BRIDGE

Control of the Longview Bridge, over the Columbia River between the states of Oregon and Washington, passed to the Bethlehem Steel through acquisition of practically entire issue of 9,999 shares of no common stock outstanding, according to Engineering News-Record. Holders of first mortgage 6 1/2 per cent sinking fund gold bonds, who were notified that the bridge company was unable to meet the semi-annual interest payment on the bonds due April 1, have been asked to defer interest on the next four coupons payable April 1, 1931, to Oct. 1, 1932, and waiver of the sinking fund until April 1, 1935. In return for these concessions the holders of each \$1,000 bond will receive \$130 of 4 1/2-year secured mortgage bonds dated April 1, 1931, and due Oct. 1, 1935, bearing 7 per cent annual interest. They will also receive 10 shares of the outstanding 7 per cent cumulative preferred stock, par value \$100, bearing 7 per cent dividends from March 29, 1930.

Daniel H. Deyoe of the industrial engineering department of the General Electric Company, a director and member of the American Welding Society and a figure for many years identified in electric arc welding activities, died in Schenectady, N. Y., at the age of 55. Mr. Deyoe was graduate of Union College Class of 1898, and joined the General Electric organization in the same year. He became affiliated with the industrial engineering department in 1906, and became active in arc welding problems, and has been an outstanding figure in that field ever since.



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Thirty-fifth Year, No. 18



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BUILDERS'
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Glencort 7400



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Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

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TATE LABOR CHIEF DEPLORES WAGE CUTS

James W. Mullen, chief of the division of labor statistics and law enforcement, has issued a statement to employers of labor in California pointing out the dangers of wage reductions.

"A significant number of small and great employers," said Mullen, "have during recent months reported wage decreases affecting all their employees. These wage reductions, which range from 5 to 20 per cent, will seriously curtail the reduced purchasing power of consumers which already has been reduced because of partial employment. The lowering of the cost of living of wage earners through wage cutting is bound to prolong the present depression and the matters worse, not only for the merchants, who depend upon the spending ability of the marginal consumers but also upon the manufacturers who cannot dispose of their products unless the retailers are able to sell these products to the public.

"Should the policy of wage cutting continue, it is bound to lead to organized resistance on the part of the workers affected, who should not be compelled to suffer further deprivations because of a business depression for which they are in no wise responsible," according to Mullen, wage reductions have been recently put into effect by many employers in all parts of the state. Several lumber companies employing from 200 to 500 workers have reported a 10 per cent wage cut. Manufacturers of sashes and doors, some of whom are employing as many as 400 employees, have reported 5 per cent wage reduction.

SUPERVISORS DEMAND WATER CHARGE PROBE

By a vote of 13 to 3, the Board of Supervisors voted to demand the appointment of City Engineer M. M. O'Shaughnessy and Nelson A. Eckart, manager of the Municipal Water Department, to appear and explain statements they have made derogatory to the activity of John G. Little, civil engineer, employed by a special committee of the Board of Supervisors concerning a threatened water shortage.

Engineer Little supported O'Shaughnessy and Eckart in their statement that the city was threatened by a water shortage, but recommended that the city temporarily stopped on the West Joaquin tunnel unit and that the West Joaquin valley pipe line be diverted to come over Altamont pass from water from the O'Shaughnessy tunnel.

It was this recommendation that resulted in the statements accredited to O'Shaughnessy and Eckart that the recommendation indicated "gross incompetency."

G. G. BRIDGE BIDS ORDERED RECEIVED

Bids for the construction of the Golden Gate Bridge, a \$35,000,000 project, will be received by the directors of the Golden Gate Bridge and Highway District on June 17, it is announced by W. W. Felt, Jr., secretary of the district.

Plans for the steel superstructure, under Contract No. 1, are now available to bidders. This unit of the project will involve 75,000 tons of structural steel in the main and side spans and 28,000 tons of cables and fastenings.

Plans for the main piers and anchorages of the structure will be available for contractors on May 6. Plans for the remaining units of the work will be ready for contractors on May 13, these units involving the San Francisco and Marin approach spans, Presidio road; Sausalito road; paving of main and approach spans; electric work; cable housing and stairways, filling and grading; toll terminals and cement.

All bids will be opened in the offices of the district in the Financial Center Building, San Francisco.

Plans for the various units of the work are available at the district offices on deposit of \$50 for each set withdrawn.

SACRAMENTO MUNY WATER PLANT PAYS

The municipal water department of Sacramento, made \$52,692.57 profit last year. This represents a saving of more than 5 cents a year on the tax rate.

The \$52,692.57 surplus of revenues over water department expenses went into the general fund to help pay the cost of government in other departments. The water department thus relieved the city's ratepayers of putting up the \$52,692.57 they, otherwise, would have had to pay.

In terms of tax rate, every \$10,490 represents 1 cent of taxes. Five times \$10,490, or 5 cents of tax rate, is less than \$52,692.57 net profit of the water department.

The annual audit shows water department revenues of \$511,801.03 for 1930, and expenses of \$199,738.26. The difference is an operating profit of \$312,062.77.

But this is not the net profit of the water system, as there are many bonds outstanding against it. The city retired \$113,990 worth of bonds and paid out \$145,389.20 in water department bond interest. This totaled \$259,379.20.

Subtracting the total of bond interest and redemptions from the operating profit leaves an actual profit of \$52,692.57.

And that sum meant a 5-cent saving on every hundred dollars of assessed valuation.

PACIFIC NORTHWEST LUMBERMEN ORGANIZE

Formation of the United Export Lumber Association, embracing four export groups and 146 sawmills in Western Washington, Oregon and British Columbia, is announced by L. L. Chipman, head of the export activities of the Long-Bell Lumber Co., at Longview, Wash.

The Douglas Fir Exploitation and Export Company, Seattle; the Dant & Russell Export Co., Portland; the Grays Harbor Exportation Company, Aberdeen, and the Associated Timber Exporters, British Columbia, Ltd., are the affiliated groups.

"The four companies represent and will sell the export output of 146 sawmills," Chipman said. "These mills produce 95 per cent of the export lumber capacity west of the Cascade mountains in British Columbia, Washington and Oregon," Chipman said. "Operation of the United Export Lumber Association began last Monday, and it is the expectation of those interested that this association will be of material benefit to the lumber industry as a whole and it is considered a definite step toward general improvement in the industry."

"This company will in no way deal with the public, but will prescribe the regulations under which the four separate groups will operate. The organization is effected under the Webb-Pomerene act."

Stabilization of lumber prices to foreign buyers is one of the prime duties of the new association.

LONGEST VERTICAL LIFT RAILROAD SPAN

The longest vertical-lift railroad drawspan is said to be the 402-ft span for the new Missouri River bridge of the Missouri-Kansas-Texas R. R. at Boonville, Mo., which will give a headroom of 57 ft. at low water, says Engineering News-Record. This span, with three 300-ft. fixed spans and one of 247 ft., will be of the through riveted-truss type, with one through girder span of 60 ft., all designed for Cooper's E-70 loading. The lift span will be electrically operated, automatically controlled by safety devices and interlocked with the automatic block signals.

A contract for the design, fabrication and erection of the superstructure has been awarded to the American Bridge Co. Erection will begin this summer and the bridge is to be completed by January 31, 1932. The concrete substructure, built in 1930 by the Kansas City Bridge Co., is founded on rock, and the river piers were sunk by the pneumatic process to a maximum depth of 50 ft. below low water. This work will be in charge of R. M. Stubbs, bridge engineer, under the supervision of P. Ringer, chief engineer, Missouri-Kansas-Texas R. R. The completed structure will cost about \$1,233,000.

A. I. A. MOVES FOR NEW NATIONAL BUILDING POLICY

A movement to raise the standards of architecture throughout the country was launched by the American Institute of Architects on the closing day of its 64th convention at San Antonio, Texas, April 16.

Broadening a declaration at an earlier session that the carrying out of the Federal building program should be entrusted to private architects, the convention adopted a resolution declaring that this policy should apply to all buildings erected by cities and states and other political divisions. Governor Franklin D. Roosevelt will be asked at once to further this plan in the state of New York, where extensive public works projects are to be executed.

California was singled out as an example for the nation, a telegram sent by the Institute to Governor Rolph commending his "recognition of the well-established principle of public policy that competent private architects should be employed for all municipal, state, and Federal building projects." The telegram was signed by Robert D. Kohn of New York, president of the Institute, and Frank C. Baldwin of Washington, secretary.

The resolution, which came as a climax to three days of discussion, showing that the architectural profession is thoroughly aroused over the tendency to concentrate architectural service in the hands of a single Government bureau, follows:

"The American Institute of Architects affirms that the public buildings and monuments in every community of the nation should proclaim the highest standards of enduring architecture, and that in their design the customs, traditions and local materials of the community in which they are located should be fully considered.

"The Institute further affirms that such standards of excellence can be achieved only by enlisting the services of the best ability in the architectural profession that is locally available, and that every community is entitled to such services.

"It also affirms that men capable of producing these results are not to be found in subordinate capacities in state, municipal and other civic planning bureaus, and that the concentration of planning and designing buildings in such bureaus must inevitably tend to produce stereotyped, mediocre, uneconomic and uninspiring results.

"The Institute further believes that a national policy of encouraging private business initiative is wise, and that therefore the operation of state, municipal and other civic bureaus of designing of buildings and monuments is inconsistent with this policy and an invasion into the field of individual professional activity.

"In urging upon state, municipal and civic authorities the desirability of availing themselves of the services of architects in private practice, the Institute stresses the importance of the care which must be taken in their selection. That they should be chosen for reasons of fitness alone, and on the basis of their records, cannot be too strongly emphasized.

"The Institute through its delegates assembled directs Chapters to transmit these views to the proper state, municipal, and other civic authorities in their communities, and to take such other measures in co-operation with related organizations as may be necessary to accomplish the aims expressed herein."

The convention, in a previous resolution, charged that inferior architecture, unfair to the people, will result from the Government's present policy of "carrying into effect the greatest national building program the world has ever known."

The Government departments in charge of this program have departed from the policies laid down by President Hoover, former President Coolidge, and Secretary Mellon by confining architectural effort chiefly to the Office of the Supervising Architect of the Treasury, where it must inevitably tend to become "stereotyped, mediocre and uninspiring," it was declared.

The country, as a result of this course, is being deprived of the best architectural ability, while "a really unexampled" opportunity to contribute to higher civilization is being lost, it was asserted in the report of the Institute's Board of Directors, adopted by the convention.

The Board advocated the establishment of a Federal Department of Public Works, saying:

"The Board of Directors of the American Institute of Architects placed itself on record as sponsoring the early development of a Federal Department of Public Works in order that all government construction agencies shall be efficiently correlated under one executive head, presumably of Cabinet rank; with two assistant secretaries, one in charge of engineering projects, the other in charge of architectural projects.

"The function of this Department should be solely administrative and supervisory. In this way only can the best engineering and architectural ability of the country be made available for the execution of public works.

"The Board's report pointed out that for thirty years the Institute had cooperated with the Government in the planning and development of Washington, many distinguished architects serving without compensation on the Metropolitan Commission of Architecture, the Commission of Fine Arts and National Capital Park and Planning Commission, supported by the American Institute of Architects throughout the country.

"We welcome," the report continued, "every opportunity to make available to the Government the best professional ability which the country possesses in order that the splendid example already established in our National Capital may be extended to every community where these ideals may be reflected and emphasized in our Federal architecture.

"Great sums of money have been appropriated by the Congress for the erection of many Governmental structures in all sections of the country. Under the stress of circumstances, despite the large organization of the Office of the Supervising Architect of the Treasury, few out of many projects have been assigned to architects in private practice, but it is the conviction of the architectural profession that public policy will be best served by a further extension of this work into the hands of able architects resident in the localities which the buildings are designed to serve.

"We believe that the country is entitled to the services of the best architectural talent available, and that the concentration of so large a volume of work as the present appropriations provided, into the hands of a single

Government bureau, must inevitably tend to produce stereotyped, mediocre and uninspiring results.

"We believe, further, that our national policy of encouraging private business initiative is wise; and that therefore the operation of the Office of the Supervising Architect of the Treasury is inconsistent with this policy, and an invasion into the field of individual professional activity.

"In urging upon the Government the desirability of availing itself of the services of architects in private practice, we stress the importance of the care which must be taken in their selection. That they should be chosen for reasons of fitness alone, and on the basis of their records, cannot be too strongly emphasized.

"Their selection should be left to the Board which might be composed of the Chairmen of the Public Building Committees of the Senate and House, a representative of the Department concerned, disinterested architects and a qualified layman representing a national civic or business organization.

"We affirm that our Federal buildings in all parts of the country should proclaim the highest standards of enduring architecture. The special requirements, customs, and tradition of the communities in which they are located should be recognized and met in their design.

"Such standards of excellence can be achieved only by enlisting the best ability in the architectural profession. Men capable of producing these results are not to be found in subordinate capacities in government bureaus certainly not in numbers capable of credibly carrying into effect the greatest national building program the world has ever known."

In support of its position, the Board cited an address of President Hoover delivered in April, 1929, in which it President said:

"It is the wish and the demand of the American people that our new buildings shall comport with the dignity of the Capital of America, that they shall meet modern requirements of utility, that they shall fulfill the standards of taste, that they shall be a lasting inspiration. In architecture it is the spiritual impulse that counts. These buildings should express the ideals and standards of our time; they will be the measure of our skill and taste; they will be judged by our children's children.

"Mr. Mellon has insisted that I great responsibility before us is one which can be discharged by no one individual. It must be the product of the common mind of many men devoted to secure for America the realization of the expression of a Nation. And I am confident that we have within the Nation the taste, skill and artistic sense to perform our task for our architects have already assumed the leading place in the great art."

The American Institute of Architects accepted these statements as expressing the general policy of the Government, not merely applicable to Washington, according to the Board report on which:

"The Institute is now faced with the fact that the departments in charge of the execution of the present nationwide program have not been guided by this policy. Data furnished by the Government shows that while the public buildings in the National Capital have been entrusted to architects distinguished reputation, the poli-

the country at large has thus far been restricted to the appointment of comparatively few architects in private practice.

Outside of Washington, of 378 buildings to be erected in the United States, only forty buildings in eight states have been assigned to architects in private practice, leaving 334 remaining buildings in the Office of the Supervising Architect of the Treasury. The American Institute of Architects submits that this policy is unfair to the nation at large. The institute reiterates its stand that every section of the country is entitled to the buildings which shall represent the best architectural ability of the nation.

Robert D. Kohn of New York City was re-elected President of the Institute. Other officers chosen were:

Executive vice-president, E. J. Russell, St. Louis; second vice-president, Horace W. Peaslee, Washington, D. C.; secretary, Frank C. Baldwin, Washington, D. C.; treasurer, Edwin Bergstrom, Los Angeles.

The new Board of Directors will be composed of the officers and the following: George H. Gray, New Haven, Conn.; New England Division; Albert L. Brockway, Syracuse, N. Y., New York Division; Frederick M. Mann, Minneapolis, Minn., Central States Division.

The Institute elected these five honorary members "as distinguished artists in their respective fields, or as distinguished laymen in their respective communities who have rendered special and valuable service to the advancement of architecture."

In Nicholas Brown, Providence, R. I.; Frederic A. Delano, Washington, D. C.; James Earle Fraser, New York City; Ernest Peixoto, New York City; and Edward McCartan, New York City. The following architects were elected honorary corresponding members: Gustave Pellechet, Paris; Gave Jaumes, Neuilly-sur-Seine, France; Wilhelm Kreis, Berlin; Sir Bruce Fightham, London; Professor Herman Bestenmeyer, Munich; Professor Bruno Zevi, Berlin; Professor Hans Poelzig, Berlin.

Twenty-three architects were elected fellows of the Institute, it was announced by Charles A. Favrot, New Orleans, Chairman of the Jury of Fellows. They are: Atlee Howard Ayres, St. Antonio, a member of the West Texas Chapter; William T. Aldrich, Boston; Henry Baechlin, New Jersey; J. Carlisle Bollenbacher, Chicago; A. J. Howell Brockie, Philadelphia; Daniel Hudson Burnham, Chicago; H. Bert Burnham, Chicago; Charles N. Hend Cogswell, Boston; Charles W. Wood Dawson, Oklahoma; Edwin Thrill Dodge, Boston; Wilson Cowdrey, New Jersey; Gilbert Christopher Hoy, New Jersey; Miss Lois Lilley Hoy, New Jersey; Edward Harrison Hoy, Boston; J. Howland Jones, Boston; J. L. Little, Boston; Ole J. Lorehn, San Texas; Elmo Cameron Lowe, Chicago; Walter Mellor, Philadelphia; Frank Vernon Murphy, Washington, D. C.; George W. Bispham Page, Philadelphia; Philip Richardson, Boston; and Cortland Van Brunt, Kansas City.

A Fine Arts Medal of the Institute was awarded to Frederick Law Olmsted of Boston, "for distinguished achievement in landscape architecture," and the Craftsmanship Medal to Leon V. Solon of New York "for distinguished achievement in ornamental terra cotta and falence."

Reports of officers and committees also stated that the Institute was in a flourishing condition. Plans were made for carrying out constructive policies during the coming year in co-operation with all elements in the building industry. The idea of a functional agency in the industry was stressed by President Kohn in his annual address.

CURRENT BUILDING AND CONSTRUCTION TRADES WAGE RATES PER HOUR

(Compiled by Engineering News-Record, New York)

	Cities Bricklayers	Carpenters	Engine Drivers	Hoisting Hod Pile Drivers	Iron Workers	Structural Labor*	Common Labor*
Atlanta	\$.125@.140	\$0.60@.70	\$0.60@1.00	\$0.50	\$0.75@1.25	\$0.25@.35	
Baltimore	1.75	1.00@1.10	1.00@1.37	1.00	1.00@1.25	.30	
B'm'gh'm	1.25	.75	1.00	.30	1.37	.25	
Boston	1.50	1.37 1/2	1.37 1/2	.85	1.27 1/2	1.37 1/2	45¢@.80
Cincinnati	1.62 1/2	1.40	1.40	1.00	1.40	1.40	.35@.60
Chicago	1.70	1.62 1/2	1.62 1/2	.87 1/2	1.62 1/2	1.62 1/2	.87 1/2
Cleveland	1.62 1/2	1.37 1/2	1.37 1/2	.87 1/2	1.10	1.50	.35@.60
Dallas	1.75	1.12 1/2	1.25	.35@.75	1.25	1.25	.35@.50
Denver	1.50@1.62 1/2	1.25	1.25@1.37 1/2	.87 1/2@1.00	1.00	1.25	.20@.42 1/2
Detroit	1.56 1/4	1.00@1.25	1.00@1.10	.90	1.00@1.10	1.00@1.25	.50@.60
Kan. City	1.50	1.37 1/2	1.37 1/2	.90	1.50	1.37 1/2	.30@.75
Los Ang.	1.37 1/2	1.00	1.00	.75	.87 1/2	1.00	.50
Min'polis	1.30	.90	.90@1.00	.80	1.00@1.125	1.00	.50@.65
N'w York	1.00	.50@.75	1.25	.75	.80@1.00	1.12 1/2@1.25	.20@.35
N'w Y'k	1.92 1/4	1.65	1.92 1/4	1.03 1/4	1.78 1/4	1.92 1/4	1.03 1/4
Phila.	1.75	1.25	1.02 1/4@1.36	.70@1.12	1.00	1.37 1/2@1.62 1/2	.40@.50
P'tsb'g	1.75	1.50	1.50@1.56 1/4	1.12 1/2	1.50	1.50	.40@.80
St. Louis	1.75	1.50	1.60@1.75	1.15@1.25	1.25	1.25	.30@.57 1/2
S. F.	1.37 1/2	1.12 1/2	1.12 1/2	.87 1/2	1.12 1/2	1.37 1/2	.68 1/2
Seattle	1.50	1.12 1/2	1.12 1/2@1.25	1.00	1.25	1.25	.70
A'v'ke	1.55	1.19	1.28	0.8615	1.20	1.53	0.5359
Mon't'l	1.25	.80	.80	.90	1.00	1.00	.30@.45

*Minimum rates are mostly non-union and for construction other than bids.

"LOG ROLLING" TACTICS ON FEDERAL WORK HIT BY COURT

Bid peddling and "log rolling" tactics with reference to Federal Government construction contracts have been dealt a fatal blow in a far-reaching decision just handed down by United States Comptroller J. R. McCarl ordering the abrogation of the \$4,600,000 contract for construction of the new Federal postoffice at Boston, Mass.

The contract was awarded by the Treasury to N. P. Severin Co., of Chicago, who submitted the lowest bid after the department had several times called for supplemental bids by contractors who bid on original specifications advertised by the Government. The Comptroller holds that the revised specifications should have been readvertised and his decision will affect the entire government building program throughout the country. Pointing out that in the supplemental bidding the Severin Co. reduced its original figure \$1,029,600, despite the fact that more costly material was specified, the Comptroller General's decision declared that the contract was not let after advertising, as required by law, nor in conformity with the public policy of maintaining "full and free competition in the letting of Government contracts."

The decision is hailed by the Associated General Contractors of America as "highly gratifying." E. J. Harding, managing director of the association, describing the several changes in specifications by the Government as smacking of "bid peddling" in response to "log rolling."

Comptroller General McCarl's decision quoted by the Treasury Department as explaining that it changed specifications for the postoffice several times because of "great pressure" which was brought to bear on the department.

"When the Government agencies repeatedly call for supplemental bids on the same project before awarding a contract the procedure is indistinguishable from the notoriously detrimental practice known as 'bid peddling,'" Mr. Harding declared on behalf of the contractors. "The law insists on public advertising and equitable competition when major changes are made in plans and specifications, thereby assuring equal opportunity to all contractors and guaranteeing above-board competition to the Government."

"It is important that the vast Gov-

ernment building program, both in Washington and throughout the country, shall be carried on free from any suspicion of favoritism, either to contractors, to material contractors or to other interests."

The call for bids was issued by the Treasury Department December 12, 1930, calling for granite construction to the third floor and limestone above that, with a second bid for granite construction throughout. Fourteen concerns submitted bids, the lowest for the granite-limestone construction having been submitted by the Seglin Construction Co., Inc., of New York, who investigated the investigation which resulted in the decision. Supplemental bids were called for twice thereafter, ten being submitted in response to the first and seven in answer to the second.

"When it was determined that the material, etc., required by the specifications to be used in the construction of the building would result in a cost in excess of the amount believed available for the actual construction work, all of the proposals should have been rejected and the work readvertised," the comptroller general ruled. "Especially should this have been done when it was concluded to accede to the local demand and construct the building with granite instead of with limestone from the third story. Obviously the work which it is proposed to let to the N. P. Severin Co. is not the work which was offered to all bidders by advertising for competition," the decision stated.

A proposal to create a county planning commission has been tabled for at least a year by the Marin County Supervisors. The project was bitterly opposed by leaders of the Marin County Farm Bureau and the County Taxpayers' Association, who decried increased taxes. Several women's clubs and realty board heads sponsored the plan.

Chairman Woods of the President's Emergency Employment Committee announced last Tuesday that contracts for public work reported to the committee since last December now total \$1,284,346,925. During the last week awards of contracts reported totaled \$132,070,183 of which \$88,261,434 was for highway work in thirty-five states.

THE OBSERVER

What He Hears and Sees on His Rounds

In the iron and steel industry both the severity and frequency of accidents increased in 1929, according to the U. S. Bureau of Labor Statistics, this being the first increase in frequency recorded since 1922 and the first increase in severity since 1926. From 1928 to 1929 the frequency rate rose from 19.7 to 24.8 (per 1,000,000 hours' exposure) and the severity rate from 2.2 to 2.6 (per 1000 hours' exposure).

At the end of 1928 there were, according to data compiled by the International Federation of Trade Unions, 44,190,525 trade-unionists in 76 countries of the world. Although these figures cover 76 countries as compared with only 62 countries covered in 1927, the number of workers organized into trade-unions showed a decline from 46,137,660 in 1927 to 44,190,525 in 1928. Of the total trade-unionists, 13,800,567 were in membership with the International Federation of Trade Unions at the end of 1929. The American trade-union movement is not affiliated.

A study made by the U. S. Bureau of Labor Statistics of hours and earnings in sawmills showed that from 1928 to 1929 the average full-time hours per week in this industry decreased from 56.6 to 56.5. Average earnings per hour fell from \$7.11 to 35.9 cents, or 3.2 per cent, and average full-time earnings per week fell from \$21 to \$20.28.

The Socialist newspaper, Le Peuple, published at Brussels, Belgium, in an editorial April 25 complained against what it called the dumping of American timber in Belgium. The United States, it said, sells Oregon pine to Belgium for the construction of railway coaches at prices 25 per cent under the Russian price.

According to a U. P. dispatch from Washington, April 23, the Interstate Commerce Commission's supplemental report denied the application of Pacific coast carriers to continue rates which were established to meet water competition on lumber in carload lots from Oregon, California and Nevada points to Southern California.

For the first time since the bureau of labor statistics began the compilation of building permits the estimated cost of nonresidential buildings exceeded that of residential buildings in 1930, the total estimated valuation of the former in 311 cities aggregating \$879,878,402, as compared with \$625,909,986 for the latter. Permits were issued in these cities for 79 hotel buildings with an average estimated cost of \$313,614 for each. The average cost of office buildings for which permits were issued in these cities was \$228,651 for each. The statistics also show that permits were issued in the 311 cities for 1450 amusement buildings, 638 churches and 754 schools and library buildings.

A cargo of Russian lumber brought to Providence, R. I., last week by the Finnish steamer Anversolve, was admitted to the United States because there was no evidence it had been produced by convict labor.

Undersecretary Mills of the Treasury ruled the lumber could be brought in after the importers produced docu-

ments to show it had not come from an area where convict labor is used.

The shipment of nearly 4,000,000 feet of lumber was described in Russia as a test case of Treasury regulations barring from the United States lumber produced in forests north of latitude 60 in Russia.

Despite the announcement, the Treasury learned long before it arrived that it contained no convict-produced lumber and could not be used as a test.

All persons desiring employment on Hoover Dam project are asked by the department of labor to write to Leonard T. Flood, in charge of United States Employment Offices, 117 North Main street, Las Vegas, Nev., before going to that city to seek work. A warning is sent out against going to the site of work before writing for information.

Toll Roads in the United States amount to less than 150 miles, according to the report submitted to the U. S. Bureau of Roads by H. H. Kelly, division of highway transport. In 35 states there are no toll roads of any character. In the public road system of the United States there are 3,000,000 miles.

"Surplus labor" is the reason given by Wm. J. Cooper, U. S. Commissioner of Education, for the present upheaval that exists in America's business and industrial world. We have paid too much attention to producing and selling and not enough attention to the consumer.

"As a result of this failure of business to look ahead we find ourselves in the present deplorable condition with an increasing surplus of labor on our hands," Mr. Cooper says. "Modern science and engineering has increased production 50 per cent, while in the face of increasing population and this greater output payrolls have been enlarged only 4 per cent."

"The remedy," Mr. Cooper declares, "is the shorter working week and shorter working day with a higher compulsory school education age limit. Anything else we may undertake to alleviate the situation is only a temporary remedy and does not affect a cure," he added. "Old age pensions and unemployment insurance can only be temporary—the cure is shorter working weeks and hours."

Mr. Cooper stated that the United States will find itself with an increasing number of idle men who have "nothing above their ears" while a few with "something above their ears" are employed.

"Business is ignorant, cowardly and has no vision," Mr. Cooper says. "This lack of vision is responsible for our present condition which cannot be remedied until surplus labor is absorbed."

Supervisor Andrew Gallagher at last Monday's meeting of the Board of Supervisors protested the specifications for the San Joaquin Valley pipe line providing that wages paid on the project should be the "prevailing rate paid in the locality."

Gallagher declares that the district is noted for its cheap labor and that should this specification remain in

effect it would serve as a bar to residents of San Francisco obtaining employment at wages prevailing here. He said the original draft provided a wage rate identical to that paid private contractors in San Francisco. Unless his demand was upheld, Gallagher said, he would block awarding this contract, which, it is expected, will approximate \$7,000,000.

There will be no deflation of labor by the Ford Motor Company any after the war demand has lessened, nor is there likely to be any wage cuts, the many manufacturing concerns that are constantly employed on Ford work, says the Wall Street Journal.

"Henry Ford absolutely refuses to consider or condone wage reduction," the Journal says. "His attitude is that if the general level of wages were reduced it would take labor 20 years to get back. To prevent wage cuts on Ford work, Ford Motor Company periodical inspection of its supply companies. Instances are rare were a contractor to be permitted to subsidize a Ford account for the benefit that might be derived from a wage reduction."

All contractors on public work in California are urged to employ only American citizens and persons who have been residents of California at least a year in a letter given out by Col. Walter E. Garrison. His action was taken after Garrison learned that one contractor was employing foreign labor on a highway project. In a conference with Garrison, he agreed to give up the practice.

Prolonged negotiations among international cement producers for establishment of new international standards for best quality portland bauxite and artificial cement have resulted in a preliminary agreement which will be laid before a commission composed of representatives of seven European nations. If agreed to, the standards will be proclaimed as international standards.

Road building in California was advanced by the Senate with the approval of Assemblyman Biggars bill providing the state may use unappropriated funds for joint county highway districts. The Biggars bill reduces the county's share of highway districts from two-thirds to one-fifth and eliminates the provision requiring counties to build bridges and culverts before receiving state aid. It also provides that when cost of a project exceeds \$100,000 districts may distribute payment over a five-year period, allowing payment from state gas contributions. The measure was sent to the governor.

The United Socialist Soviet Republic Chamber of Commerce for Western Trade has recently begun the publication in English of a "Five-Year Bulletin of Economic Information" which contains data on trade, industrial developments and the requirements of Soviet economic organizations for foreign equipment and products. This bulletin may be obtained by organizations and individuals interested by writing to Ilyinskaya, Moscow, U.S.S.R.

At a meeting of retail lumber dealers from all parts of Southern California held under the auspices of the Lumber and Allied Products Institute of Southern California measures for promoting business were discussed. The institute now has 350 members and is working in co-operation with 150 other yards in Southern California, according to Harry A. Lay, chairman of the executive committee of the institute.

ALONG THE LINE

TRADE NOTES

HERE—THERE EVERYWHERE

red N. Morcom, city commissioner of Oakland, succeeds Chas. I. Anderson as city commissioner of streets.

ell B. Pierson, East Bay engineer, has been named city manager of Alameda, succeeding Clifton E. Hickok, resigned.

irleton M. Adams, who went to S. Diego several months ago as representative of the Union Lumber Co., died in that city April 9, aged 38 years. His funeral was made at San Rafael, Cal.

C. Kellogg, previously with the Central Illinois Co. as an engineer, advising on the purchase of new bond issues from economical and engineering considerations, is now acting as vice-president of the Pacific Water Co. at San Mateo.

bert Press Smith, 47, former city engineer of Sonoma County and who recently engaged in highway and bridge contracting, died in Santa Rosa last Monday night following an operation.

Smith was born in Santa Rosa and educated in the local schools. He worked as county surveyor for a time and for a brief period as city engineer of Santa Rosa. Following the resignation of Lloyd Aldrich, Sonoma county engineer, Smith was appointed to fill the position, serving in that capacity until the position was abolished seven years ago. He then went into the contracting business. He is survived by his widow, Ida, and three sons, Robert, Philip and Howard.

SUITE FILES SUIT AGAINST BUILDERS

The state of California has filed suit against J. M. Yoho and A. B. Douglass of the Sacramento construction firm of Yoho & Dauger, and against the Mutual Casualty Company, for damages as the result of the failure of the construction company to accept the award of a contract for the erection of a state fair grounds of the new 1930 poultry exhibit building.

It is on the construction work were sued by the department of public works on March 24, the complaint states, for the bid of the defendants in the sum of \$43,743 was declared low.

The failure of the company to accept the contract constituted a breach of contract, the complaint declared, and was the basis of the suit to recover the amount posted by the company. The firm of Guth & Fox has been awarded the poultry building work.

Appointment of G. H. Garcelon as manager of the Control Engineering Department of the Westinghouse Electric & Manufacturing Company, Erie, Pittsburgh, Pa., is announced. Garcelon succeeds J. H. Belknap, who has been transferred to the Engineering Division of the Pittsburgh district office of the Company. The new manager of the Control Engineering Department entered the employ of the Westinghouse Company upon his resignation from Massachusetts Institute of Technology in 1902, and before his present appointment was manager of engineering for the Company's works at East Springfield, Massachusetts. He is well known for his work in designing small motors.

J. W. Cary and Paul C. Chambers, operating the Exeter Electric Co., at Exeter, Calif., announce a dissolution of the partnership. The business will be continued by Chambers who will maintain the same firm name.

Lyle M. Titus, for the last 11 years connected with the lumber industry in Southern California, is now sales representative of the Pelican Bay Lumber Co., Klamath Falls, Ore., manufacturers of California white pine, with office at 604 Board of Trade Bldg., Los Angeles.

U. E. Johnson and J. R. Jones have opened headquarters at 39 East San Antonio Street, San Jose, and will carry a complete line of R. N. Nason and Company paints, together with a line of wall paper, brushes and painters' tools. Johnson, for the past ten years, was in charge of sales for the Nason Company in Central California. Jones was formerly engaged in the construction business in Southern California.

Bay Counties Steel Products Co., 9601 Russett St., Oakland, is completing installation of equipment for the manufacture of light steel stair treads, ornamental iron products, gratings, and pump screens. Production is not yet under way, but is expected to start May 10. The company, comprising L. C. Young and H. D. Beasley, will market its products under the trade name of "Bayco."

Wallace & Tierman Co., Inc., Newark, N. J., has acquired the assets of the Tanner Engineering Co., Long Island City, N. Y., and will, in the future carry on the manufacture and sale of Tanner instruments for indicating and recording variations in liquid levels, vertical movements of gas-holders, positions of valves and sluice gates, or any straight line or angular motion at any distance from the point of measurement. Manufacture will be carried on at the Wallace & Tierman plant at Belleville, N. J.

Four retail lumber yards in Southern California have signed agreements to use the West Coast Lumbermen's Association grade marks on West Coast woods graded in their yards under the supervision of A. A. Kayser of Los Angeles, the association's grade inspector. The new firms are: Construction Supply Co., Los Angeles; Blanchard Lumber Co., North Hollywood; Bank Line Lumber Co., Los Angeles, and the Riverside Lumber Co., Los Angeles. According to the association, there are now 37 retail firms in Southern California licensed to use the association grade marks on their lumber.

A million feet of lumber was destroyed in a fire which swept through the yard of the Union Lumber Company at Fort Bragg, April 28. The fire was brought under control after a five-hour fight, with an estimated loss of \$60,000.

For the first time in eight years building permits issued in a single month have passed the \$100,000 mark in Santa Rosa. According to Building Inspector Walter G. Stracke, the total amount of permits granted to date since April 1 is \$102,000.

Organization headquarters of the Sonoma County Builders' Exchange have been leased at 625 Fifth Street, Santa Rosa. A building exhibit will be operated in connection with the exchange activities.

The May meeting of the Contra Costa Electrical Development League will be held at Concord on May 15, it is announced by Paul Brunelle of Concord, president of the league. Tentative plans will be outlined for a second Sunday outing at which athletic events and a barbecue will be features.

Forty members and guests of the Stockton Chapter, American Association of Engineers, made an inspection trip on the progress of the work in connection with Stockton's deep water project. The trip was arranged by Lyle Payton, Stockton city engineer.

Southern Pine Association, at the recent annual convention held at New Orleans, La., adopted a code of ethics to govern the distribution of lumber, pledged co-operation to railroads, and voted a 5c per 1000 ft. tax on lumber shipped by its members to be used for advertising and sales promotion.

An ordinance has been introduced to the Petaluma city council demanding preference for the employment of resident laborers performing labor upon public works of the City of Petaluma, and defining conditions under which contracts for such work will be awarded. The proposed measure has been laid over for further consideration.

Efforts will be made by Chas. A. Merritt of San Jose, a member of the executive board of the Northern California Federation of Plumbing and Heating Industries, to bring the July meeting of the federation to San Jose. The federation objective is to raise the ethical standard of the plumbing and heating industries throughout the northern part of the State through the medium of educational and sound business methods applicable with the conditions at the present time.

Edward Stalter has been elected president of the Monterey County Organization of General Contractors. Other officers are: Wade Halstead, first vice-president; S. W. Hooke, second vice-president; secretary, treasurer, E. H. Sundberg; directors, John Taufner, Stalter, Halstead, Hooke, Sundberg and Wm. Swenden. Offices of the organization are maintained in the Work Building at Monterey.

A permit has been issued by the Federal Power Commission to the Portland Canal Co. of Seattle, Wash., for the construction of a hydro-electric power project on the Davis River in southeastern Alaska. The first work will be a 400-ft. dam costing \$144,756. Other work projected includes a 1000-ft. tunnel with concrete-lined diameter of 13 ft.; a diversion tunnel 600 ft. long; a penstock 800 ft. long; and a 2000-ft. cableway. The project, which is located near Hyder, Alaska, will cost approximately \$3,600,000 when completed.

UNIFORM BUILDING CODE IN 92 CITIES

Ninety-two cities have adopted the Uniform Building Code of the Pacific Coast Building Officials Conference, according to David H. Merrill, secretary of the conference. These cities have adopted the code in its entirety or with minor changes suited to meet local conditions. No reference is made to cities that have used the code as the basis for a code revision. Such cities are largely in the Middle West, South and Eastern sections of the United States.

A number of cities are preparing to adopt the Uniform Code at the present time. Among these are San Diego, Inglewood, South Gate, San Bruno, Petaluma, Woodland, Turlock, Mountain View and San Luis Obispo, California; Salt Lake City and Ogden, Utah; Boise City and Lewiston, Idaho; and Princeton, New Jersey.

Palo Alto has had first reading before the City Council, and final reading may occur at any time.

Stockton is the most recent city to adopt the code, the city council having given final reading for adoption on April 12.

About one-third of the present list of 92 adoption cities are operating under the provisions of the latest or 1930 Edition of the Uniform Code. The remainder are practically without exception working under the next previous edition, that issued in 1927. Insofar as can be determined, only two cities are working under the earliest printing issued (the preliminary draft of 1926), these being Sacramento, Calif., and Shreveport, Louisiana.

California cities operating under the Uniform Building Code of the Pacific Coast Building Officials Conference, arranged in alphabetical order, are:

California

Alameda, Altamira, Alturas, Anaheim, Bell, Berkeley, Brawley, Burbank, Calexico, Claremont Compton, Corcoran, Coronado,

El Centro, El Monte, El Segundo, Fontana, Fresno, Fullerton, Gardena, Hawthorne, Huntington Park,

Laguna Beach, Ladera, Livermore, Long Beach, Lynwood, Madera, Martinez, Modesto, Monterey Park, Newport Beach,

Oceanside, Ontario, Orange, Pasadena, Piedmont, Pittsburg, Pomona, Redlands, Richmond, Riverbank Riverside,

Sacramento, San Anselmo, San Bernardino, San Fernando, San Jose, San Leandro, San Rafael, Santa Maria, Santa Monica, Seal Beach, Sebastopol, South Pasadena, South San Francisco, Stockton,

Tujunga, Tulare, Turlock, Tustin, Ukiah, Upland, Visalia Walnut Creek, Watsonville, Willow Glen.

Miscellaneous Points,

Albuquerque, N. M.; Birmingham, Ala.; Corpus Christi, Texas; Cottage Grove, Ore.; Dallas, Texas; Ellensburg, Wash.; Eugene, Ore.; Everett, Wash.; Grand Junction, Colo.; Grand Forks, N. D.; Helena, Montana; Houston, Texas; Kelso, Wash.; Klamath Falls, Ore.; Las Vegas, Nevada; Medford, Ore.; Olympia, Wash.; Prescott, Ariz.; Salem, Ore.; Shreveport, La.; Tucson, Ariz.; Utica, N. Y.; Yuma, Arizona.

Westinghouse Electric & Manufacturing Company has been awarded a contract by the Six Companies, Inc., contractors for Boulder Dam, to furnish and install the electrical equipment required in that project. A large part of the equipment covered by the contract will be built in the Oakland plant of the Westinghouse Company.

CITIES BUILT IN A DAY AT STUDIOS

Almost any type of home or building can be duplicated at a moment's notice in the Paramount Public Hollywood studios without going outside for material, it was stated yesterday in San Francisco by Jesse L. Lasky, first vice president of the company, which is holding its annual convention here this week.

Structural steel is about the only building material, commonly used, which isn't kept on hand in large quantities. The twenty-seven acre studio has long rows of warehouses full of material. It has many departments which function as a co-ordinated whole in the rapid construction of every conceivable type of sets.

Motion picture sets, because of their greater variety and more intricate specifications, require more highly skilled labor and more experienced supervision than ordinary building operations. From the time that the script of a new story is placed in the hands of Van Nest Polglase, designer of sets, until the completed structure awaits the troupe, is rarely more than a matter of a few days. To design and build a garage or four-room bungalow in a few days is not extraordinary, but to duplicate Chinese, Normandy, Russian or English architecture in photographic perfection, and do it all on a schedule where every hour of a day counts, is something else.

Blueprints go to the planing mill, where the sets are built in units, ready to assemble on the sound stage. The mill and the adjoining "prop shop" have an average force of fifty-five men and floor space of more than an acre, with every type of modern machinery. There is even a general machine shop and a foundry, providing metal fixtures from salvaged iron, copper and brass.

Units of the sets are transported through the studio on an overhead monorail system. A "jockey wall" system of construction and overhead hoists enable them to be raised or lowered at will on the stage. Painting and papering starts the minute walls are assembled. Portable band-saws can be taken to the stage for large scale semi-mill work. In just a few hours units of a large set are assembled, the set is painted and papered, and furnishings are in place.

Exterior sets with stucco, concrete, brick, stone or board walls are built easily and quickly by departments specializing in that type of work. Setting telephone poles and street lights in place is as simple an operation in the studio as hanging a picture.

Interesting are the figures given by Jesse L. Lasky, first vice-president in charge of production. These show that in the past year, with very few spectacle pictures requiring enormous sets, over 2,000,000 feet of lumber was used in set construction, 1250 kegs of nails, 11,000 rolls of oatmeal wallpaper—and in the paint department, nearly 4000 gallons of denatured alcohol!

The Westinghouse Electric and Manufacturing Company announces a new eight-page, illustrated publication, identified as Circular 1913, covering Nofuze Load Centers, groups of small circuit-breakers, or "Pilpans", used for the protection of branch circuits in homes, buildings, garages, small schools, farms, stores, factories, etc. The publication describes the construction and operation of Nofuze Load Centers, and includes considerable application data. A table gives the various types and sizes of tuis equipment.

CONCRETE PAVING COSTS 28% LOWER THAN A YEAR AGO

The accompanying two tables re concrete paving prices of jobs reported by Engineering News-Record (New York) let last month and in March, 1930. The tables include all contracts that reported both square yard and price, so that the unit price of concrete is roughly comparable. The current average price is \$1.93 per square yard, compared with \$2.55 in 1930, indicating a cost reduction of 23 per cent.

	March, 1930	Sq. Yd.
Ark., DeQueen	53,000	57
Ark., Earle	18,000	74
Calif., Long Beach	20,000	72
Calif., Los Angeles	21,000	70
Calif., Monrovia	39,000	80
Calif., Riverside	12,000	89
Ill., Alton	14,000	65
Iowa, Davenport	5,000	48
Iowa, Olin	16,000	90
Iowa, Ottumwa	12,000	35
La., Alexandria	24,000	46
La., Jena	3,000	83
La., Sulphur	9,000	80
Md., Baltimore	11,000	94
Md., Baltimore	9,000	58
Minn., Mankato	1,000	40
Miss., Tunica	8,000	68
Mo., West Plains	27,000	69
Tex., Beaumont	55,000	67
Tex., Halt City	10,000	31
Tex., Hallettsville	18,000	16
Tex., Waco	17,000	64
Average	18,000	55

	March, 1931	Sq. Yd.
Calif., Palo Alto	34,000	139
Indiana State	142,000	83
Indiana State	404,000	80
Indiana State	27,000	100
Ill., Wilmette	30,000	32
Iowa, Marquette	9,000	58
Kansas State	31,000	65
Kan., Kansas City	53,000	60
La., Lafayette	56,000	70
La., Portland	19,000	73
Md., Baltimore	11,000	50
Md., Baltimore	7,000	36
Md., Baltimore	10,000	36
Tex., Austin	70,000	35
Wis., Kenosha	35,000	50
Average	67,000	59

LICENSE LAW BILL WINS SENATE APPROVAL

Senate Bill 732, by Senators Butt and Cleveland, amending the contractor's license law of California, passed by the senate and is now in the hands of the committee on governmental efficiency and economy of the house.

Assembly Bill 615, by Mr. Neill, providing a method whereby civil engineers may qualify before using their title structural engineer has been passed by the senate and was returned to the house for concurrence amendments.

Assembly Bill 616, by Mr. Neill, amending the engineers' registration law, which passed the house, has been recommended for passage with amendments by the senate committee on governmental efficiency.

California Portland Cement Company has filed a complaint with the Railroad Commission against the Southern California Cement Company, alleging that defendant carried collected unreasonable rates for the transportation of cement from Colton, San Bernardino County, to points in California, and asking the Commission to establish reasonable rates for such movements and to order reparation to complainant on account of alleged unreasonable charges paid during the last two years.

HYDROCAL" GYPSUM CEMENT ON MARKET

A gypsum cement has been recently introduced into the American market under the name of "Hydrocal," which, the manufacturer claims, is superior to other gypsum plasters, the works of Paris and Keene's cement, a several points of superiority, says the Industrial Bulletin of Arthur D. Little, Inc. (Cambridge, Mass.) It has approximately twice the compressive tensile strength of a high-grade building plaster, is much harder, and is usually can be used where Portland cement is not suitable owing to its dark color and inability to make a smooth, clean castings, or to slow setting time and its slow development of strength. Hydrocal is used exactly as plaster of Paris, the time of setting may be varied from a few minutes to several hours. Because of its high strength, low absorption and density it can be substituted for many wooden and metal molds, as well as for china and porcelain lamp bases, bookends, small statues, etc., thus eliminating the cost of firing of ceramic products. The usual properties, such as the time setting, strength, hardness, etc., can be adjusted to suit the requirements of the product desired.

KOHN RE-ELECTED CHIEF OF A. I. A.

Robert D. Kohn of New York was elected president of the American Institute of Architects, at the annual convention of that body in San Antonio last week. Other officers re-elected for the ensuing year are: E. J. Russell of St. Louis, first vice-president; Horace W. Peaslee of Arlington, D. C., second vice-president; Frank C. Baldwin of Washington, D. C., secretary, and Edwin Bergom, Los Angeles, treasurer. Resolutions strongly urging the government to use local labor and building materials on construction of public structures were adopted at the spring session of the convention by the American Institute of Architects. The resolutions supplemented a similar project of the institute for the establishment of a federal department of public building which would employ private architects and contractors on public buildings, rather than draftsmen and engineers.

HOME BUILDING COSTS CUT BY NEW LUMBER

A new precision lumber for house building, designed to further better home construction during 1931, is announced by F. K. Weyerhaeuser, president of Weyerhaeuser Sales Company, Spokane, Wash. This new structural lumber, known as 4-Square Guide-Line Framing, has been developed with a number of important features said to make it easier to build better homes. Every piece of this new precision lumber is accurately squared on the ends and cut to exact lengths. It is eased on all four sides and the joints are "eased" to allow for greater ease in handling and to avoid dangerous splinters. Another interesting feature is that it is marked with side-lines every inch of its length to help the carpenter place, measure, and level the framing members with minimum error, and waste, and with less chance of inaccuracy. Every piece of this framing lumber is plain-marked with the species and grade name, and fully guarantee as to seasoning.

EMPLOYMENT STOPS GAS TAX DIVERSION

Employment for labor on the highways as well as the demands of traffic for better roads have stopped attempts to divert the gasoline tax to purposes other than highways in most states, according to Chas. Upham, engineer-director of the American Road Builders' Association.

A number of states have diverted the gasoline tax but the total is less than 3% of the amount collected. Money has been used for all kinds of things not related to roads. Kentucky is buying Mammoth Cave with gasoline tax money; Maryland supports a conservation department busy with water propagation. Florida, Michigan and Texas diverted in 1930 a total of \$13,404,200 to the support of schools—the largest single item of diversion. Mississippi built a sea wall to the amount of \$207,440. New York City receives 5% of the gasoline tax to go in the general fund. Idaho and Michigan are building aviation field using \$44,000 of the gasoline tax money but they are collecting a tax on airplane gasoline that partly covers this diversion. Louisiana is building a port with \$155,000 of the gasoline tax money in 1931.

"The present need for providing work for the unemployed and the readiness with which men from all classes of industry can be absorbed in road building work," continued Mr. Upham, "seems to be known and legislators generally recognize these facts. The needs of the highways are apparent to all motor vehicle drivers. The 32,500 people killed in 1930 by motor vehicles and the 962,000 injured, not to mention nearly a billion dollars property damage, clearly indicates the need for more and better highways and streets."

"The year will be the greatest road building year in history," he continued, "and coming at a time when other work is decreased much distress will be relieved through employment given by road contractors and officials. The public will gain because roads can be built more economically in a period of comparatively low prices."

WELDING NOT TO REPLACE RIVETS

Welding will not replace rivets in building construction, according to Mr. Lee H. Miller of Cleveland, Chief Engineer of the American Institute of Steel Construction, who addressed the Building Officials Conference of Toronto, Canada, last week.

Because it is newer, welding has been subjected to closer study, whereas rivets have been accepted without extensive research. This is the time, in the opinion of Mr. Miller, when the function and the performance of rivets under stress should be more intimately studied.

"Based upon my present experience and information," said Mr. Miller, "I consider it folly to claim we are now ready to abandon rivets, even though welds may be made to replace them, and it is as great a folly to wipe out welds from our industrial processes, because we lack the experience to inspect and analyze their properties."

Construction of sixty pedestrian subways in the vicinity of schools is contemplated by the Los Angeles Board of Education which has provided \$500,000 for such work. The subways will be constructed at points designated by Luke L. Gallus, assistant superintendent of city schools in charge of safety.

PLYWOOD INTERESTS PLAN ADVERTISING

Seventeen mills representing 100 per cent of the production of Douglas fir plywood are launching at once an intensive, nation-wide, three-year program of advertising, sales promotion and engineering research. This program will acquaint the public, wood-using industries and every factor in the construction industry with the hundreds of uses of this unique material.

"We are convinced that 1931 will long be remembered as the greatest opportunity for aggressive selling and advertising in a decade," said A. R. Wuest, chairman of the industry's executive committee. "With retailers' stocks smaller than in years and business men everywhere fast regaining confidence, the time to sell hard—and advertise hard—is right now."

RESIDENTIAL LOANS ON THE INCREASE

Moderate increase in the average size of loans on city residential property funded by Investors' Syndicate was shown during March and the average approximated that for the first quarter of the year, according to a report issued by E. E. Crabb, vice-president. Loan average for the month and for the quarter was slightly under that of the 12 months ended March 31.

March loans averaged \$4,263.88, compared with \$4,227.41 in February. The average for the quarter was \$4,277.44 and for the year ended March 31 was \$4,308.25. In the first quarter of 1931, loans funded by the company numbered 437 and totaled \$1,869,241.20.

In the 12 months ended March 31 loans numbered 1747 and totaled \$7,526,522.68. This compares with 1723 loans, totaling \$7,533,242.28 in the 12 months ended Feb. 28. During the quarter loans were made in 17 cities and during the year in 24 cities.

STATE EMPLOYMENT CONDITION IMPROVING

Improvement in employment conditions in California during March as compared with January of this year, and December and other late months of 1930, is indicated in the monthly survey made public by the state division of labor statistics.

While the number of employees and total weekly payrolls were off 18.1 per cent and 21.7 per cent from March of last year, the decrease was less than that reported for January.

The report shows that average weekly earnings amounted to \$29.95 during March against \$29.57 in January and 29.34 in December.

The figures are from 920 manufacturing establishments in California, employing about 60 per cent of the wage earners of the state.

The Westinghouse Electric & Manufacturing Company announces the publication of an eight-page booklet, identified as Special Publication 1917, describing the Westinghouse Vertical Parking Machine, an invention effecting the utilization of vertical space, with minimum ground coverage, for parking automobiles. This booklet includes: a discussion of the parking problem and the use of the vertical parking machine as its solution, a description of the construction and operation of this machine, and a discussion of its numerous applications. The various sizes in which the machine is available are also given. The booklet is illustrated with photographs and drawings showing the appearance and construction details of the machine.

CONSULTING SERVICE ON STEEL CASTINGS

Announcement is made by the Steel Founders' Society of America, Inc., that it has established an engineering department under the direction of an experienced metallurgist and engineer to provide consulting service to mechanical engineers, designers and others engaged in the selection and application of metals for products of all kinds. This service is offered without charge by the society, which is made up of a group of steel foundry organizations. W. H. Corrollow, Lebanon Steel Foundry, Lebanon, Pa., is president; vice-presidents include G. R. Casey, Treadwell Engineering Co., Easton, Pa.; W. W. Powell, Mesta Machine Co., Pittsburgh, Pa.; Arthur Simonson, Falk Corporation, Milwaukee, Wis., and Arthur F. Jones, Oklahoma Steel Castings Co., Tulsa, Okla.

Indicative of the type of service the engineering department will render is assistance with such problems as: (1) proper apportioning of metal sections for best casting results; (2) advice concerning types of cast steels available to satisfy desired physical specifications; (3) redesign of cast-steel members with which trouble has been experienced either in production or service; (4) redesign of products previously constructed in metals other than cast steel; (5) locating a foundry capable of handling individual requirements.

Inquiries should be addressed to the development engineering department, Steel Founders' Society of America, Inc., 420 Lexington Ave., New York, N. Y., according to Granville P. Rogers, managing director of the society.

ESTIMATING FEE HIT BY KANSAS DECISION

The Kansas Supreme Court, in a unanimous decision rendered March 7, declared that contract agreements between bidders which provide for the inclusion of estimating fees in proposals and for the collection of fees from the successful bidder are contrary to public policy and void under the Kansas laws.

The decision was made in the appeal of the suit of the Master Builders' Association of Kansas against Lee Carson who was not a member of the association but had entered into a contract with members to pay the association one-half of one per cent of the total contract price which would be received for the construction of a schoolhouse at Cherrylva, Kansas.

It was asserted that the one-half of one per cent which the association was to receive under the contract with Carson and its members, was in return for engineering service and quantity surveys which were a valuable help in compiling the bids. Approximately one-half of the percentage received by the association was to compensate for such service, the remainder being applied as partial reimbursement to the five next lowest bidders for the costs incurred in providing the owners with their estimates.

The case was appealed to the Kansas Supreme Court from the decision of Judge J. W. Holdren of Montgomery County, by the Master Builders' Association. The decision of Judge Holdren was upheld and the contractors' association denied the right to collect the fee mentioned in the contract it had with the defendant Carson.

Contracts for 400 miles of road paving in Louisiana, amounting to nearly \$10,000,000, have been approved by a citizens' advisory board, sitting jointly with the state board of liquidation.

FIRE PROTECTION BODY TO RATIFY N.E.C. CHANGES

Changes of varying importance in practically every article of the National Electrical Code, made at the annual meeting of the Electrical Committee of the National Fire Protection Association early this year, will be presented for ratification at the thirty-fifth annual meeting of the Association on Toronto May 11 to 14.

One of the important changes is the addition of an we section covering electrical installations in warehouses for the storage of cotton, jute, hemp and other combustible fibres which present a special fire hazard requiring for safety a special type of electrical installation. In accordance with this action, R. P. Strong of New Orleans, Chairman of the N. E. P. A. Committee on Storage of Combustible Fibres, will recommend that the separately published regulations on the storage of combustible fibres make reference to the new National Electrical Code rule instead of covering these electrical features in the separate pamphlet.

The National Electrical Code, prepared by the N. E. P. A. Committee composed of representatives of electrical engineering organizations, central station interests, electrical manufacturers, underwriters, and other interested groups, is adopted as an American standard by the American Standards Association. It is the recognized standard of good practice in electric wiring, and has the effect of law throughout most of the United States, as well as influencing wiring practice in both North and South America.

A. R. Small, Vice-President of Underwriters' Laboratories, New York, is chairman of the committee. Copies of the report may be secured from N. E. P. A. headquarters at 60 Battery-march St., Boston.

UNIT CONSTRUCTION COSTS FOR SEATTLE

An average unit construction cost computed from the total volume of residential structures for the past several months is revealed by the Seattle Journal of Commerce as being at a new low mark of \$4.79 per square foot of floor area.

The report states that not only residential, but all types of construction, are now at the lowest cost in many years, due to the low level of prices prevailing in building materials.

The average construction cost per square foot of floor area for the principal types of buildings are as follows:

Class of Bldg.	Cost Per Sq. Ft.
Dwellings, residential.....	\$4.79
Schools.....	6.42
Commercial buildings.....	6.43
Public buildings.....	8.21
Hospitals.....	8.53
Churches.....	8.55
Factories.....	8.65

A.S.M.E. NOMINATE OFFICERS FOR 1932

Nominations for officers of the American Society of Mechanical Engineers for 1932 were announced at the recent meeting of the Nominating Committee at Birmingham, Ala., during the semi-annual meeting. The election will be held by letter ballot of the entire membership, closing on September 22. The nominees are:

President—Conrad N. Lauer, President, Philadelphia Gas Works, Philadelphia, Pa.

Vice-Presidents—Robert M. Gates, Vice-President, Superheater Company,

New York, N. Y.; Charles M. Allen, Prof. of Hyd. Engrg., Worcester Polytechnic Institute, Worcester, Mass.; Fred I. Dörner, Mechanical Engineer, Milwaukee, Wis.; William B. Gregor, Prof. Exper. Engrg., Tulane University, New Orleans, La.

Managers—Alexander J. Dickl, Editor, Pacific Marine Review, San Francisco; Eugene W. O'Brien, Editor Southern Power Journal, Atlanta, Ga.; Harry R. Westcott, President Westcott & Mapes, Inc., New Haven, Conn.

Delegates—American Engineer Managers—Columbus N. Lauer, Philadelphia; Paul Doty, St. Paul, Minn.; Flanders, Springfield, Vt.; C. Ferris, Knoxville; L. P. Alford, New York City; J. H. Lawrence, New York City; R. C. Marshall, Jr., Chicago; A. A. Potter, Lafayette, Ind.; W. H. Trask, Jr., Salt Lake City; C. W. Hutchinson, New York City.

REVISIONS PROMPT DEMAND FOR EXTRA

The city of Tacoma has received claims amounting to \$238,273.30 from L. H. Hoffman, contractor for the dam and spillway on the city's second Cushman power development, as extra compensation. The contractor claims that the plans were changed by the city after the contract was let at that rock excavation greatly exceeded the engineers' estimates. A balance of \$139,071 has been asked for river diversion and excavation for the dam out of a total actual cost plus 15 per cent of \$290,104. Increasing the force in enforcing in the dam which changes the classification of 16,198 cu. yds. concrete resulted in an additional claim of \$71,271.

OFFICIAL PROPOSALS

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone SUtter 1694).

R-3552-S MAINTENANCE ENGINEER, for city streets. Requires 1 years' of engineering experience, of which 3 years are concerned with highway design, construction & maintenance. During the last 6 months, at least 1 year in responsible charge of maintenance required. Must be resident of California for past 12 months and between 25 and 50 years of age. Salary \$300 per month. Apply by letter for further information to Location, California.

R-3544-S FLATOTON OPERATOR, practical mill man with experience in ball mill operation, for small mill in California. Shift work, \$5.00 per day. Board costs \$40.00 per month. R-3545-S SALESMAN, to take agencies for a patented device for testing automobile brakes. Reasonable price and good commission. Territories open for exclusive right. Headquarters, San Francisco.

R-3545-S WORKING PARTNER, for outside sales promotion of experimental metal work. Prefer man with architectural experience and sales ability who is prepared to finance self during trial period while selling on commission. Business established. Location San Francisco.

R-3544-S GRADUATE ENGINEER, age 44, with California registration and electrical engineering experience desires to connect with an established engineering firm in the capacity of partner. Has some capital to invest where hard work and application will pay dividends. Address communications in care of the office.

Building News Section

APARTMENTS

Plans Completed.
APARTMENTS Cost, \$225,000
OS ANGELES, Cal. No. 6283
 Franklin Avenue.
 Light-story Glass A reinforced concrete apartments (95x124-ft.)
 Owner—Maurice Feigenbaum, Union Bank Bldg., Los Angeles.
 Architect—Max Maltzman, Rives-Strong Bldg., Los Angeles.

Plans Being Prepared.
APARTMENTS Cost, \$50,000
AN FRANCISCO, Pierce Street.
 Three-story and basement frame and stucco apartments.
 Owner and Builder—A. T. Morris, 3500 Fulton St.
 Plans by Owner.

Plans Being Prepared—Contract Awarded.
APARTMENTS Cost, \$200,000
BERKELEY, Alameda Co., Cal.
 Five-story and basement reinforced concrete apartments.
 Owner—Withheld.
 Architect—Withheld.
 Contractor—H. C. Baumann, 3730 Atlas St., Oakland.

Plans Being Figured.
APARTMENTS Cost, \$35,000
AN FRANCISCO, N Greenwich W Steiner St.
 Five-story and basement frame and stucco apartments (twelve 2- and 3-room apts.)
 Owner—J. Guaraglia, care architect.
 Architect—R. R. Irvine, Call Bldg.
 Robinson & Johnson are figuring the plans.

Bids Being Taken.
APARTMENTS Cost, \$50,000
AN FRANCISCO, Twenty-fifth Ave. N Fulton Street.
 Five-story and basement frame and stucco apartments (12 4-rm. apts.)
 Owner and Builder—O. M. Oyen, 50 Castaneda Street.
 Architect—H. C. Baumann, 251 Kearny Street.

Integrated Figures Being Taken.
APARTMENTS Cost, \$150,000
CLAND, Alameda Co., Cal. 17th and Jefferson Streets.
 Five-story and basement class C steel frame and brick apts. (47 apts.)
 Owner—G. Lloyd.
 Architect—Leonard Ford, 1435 Harrison St., Oakland.

Plans Being Figured—Bids Close May 20th.
APARTMENTS Cost, \$60,000
CLAND, Alameda Co., Cal. Greenwood Ave. near Park Blvd.
 Five-story and basement apartments (wood frame and stucco exterior with concrete basement; 24 2- and 3-room apts.)
 Owner—Withheld.
 Architect—H. K. Jensen, 354 Hobart St., Oakland.
 Plans and composition roofing, gas lighting system, hardwood flooring.
 Contractors who will submit bids are as follows:
 Ryan Milton, 583 Haddon Rd., Oakland.
 Graham, care architect.
 Jensen, care architect.
 Architect is also taking bids on a segregated bid basis.

Plans Being Completed.
APARTMENTS Cost, \$200,000
BAYWOOD, San Mateo Co., Cal.
 Four-story and basement concrete apartment building (22 3- and 4-room apts.)
 Owner and Builder—L. Dioguardi, 30 W Poplar St., San Mateo.
 Architect—Wm. Toepke, 74 New Montgomery St., San Francisco.
 Sub-bids will be taken shortly.

Sub-Contracts Awarded.
APARTMENTS Cost, \$50,000
SAN FRANCISCO, Pierce Street.
 Three-story and basement frame and stucco apartments.
 Owner and Builder—A. T. Morris, 3500 Fulton St., San Francisco.
 Plans by Owner.

Electric—Minkel & Lucas, 1535 Folsom St., San Francisco.
 Cabinets—John Forsman, 1363 Hampshire St., San Francisco.
 Mill Work—Coast Lumber Co.
 Carpets—W. J. Sloane, 224 Sutter St., San Francisco.

Light Fixtures—Incandescent Supply Co., 725 Mission St., S. F.
 Hardware—E. J. Norman, 370 Valencia St., San Francisco.
 Hardwood Flooring—Western Floor Co., 21 Castrano St., S. F.
 Iron and Grill Work—Sunset Iron Works, 94 Harrison St., S. F.
 Tile Work—Scott Co., 243 Minna St., San Francisco.
 Heating—Atlas Heating & Ventilating Co., 557 4th St., San Francisco.

Contract Awarded.
APARTMENTS Cost, \$35,000
SAN FRANCISCO, N Greenwich W Steiner St.
 Three-story and basement frame and stucco apartments (twelve 2 and 3-room apts.)
 Owner—J. Guaraglia, % Architect.
 Architect—R. R. Irvine, Call Bldg., San Francisco.
 Contractor—Robinson & Johnston, 831 31st Ave., San Francisco.

BONDS

CONCORD, Contra Costa Co., Cal.—Trustees of the Concord High School District contemplate a bond issue to secure funds to finance additions to the present school plant to relieve the present congested conditions.

SKILSAW Portable Electric Hand Saws (4 models).

SKILSAW Portable Electric Sander SKILSAW Radial Arm Attachments.

SYNTRON Portable Electric Hammers (4 models, motorless).

MALL Flexible Shaft Machines (50 models).

Electric Drills, Grinders, Buffers, Routers, Lock Mortisiers.

PETER H. NELSON

Labor Saving Portable Electric Tools.

1246 Mission St. UNDERHILL
 San Francisco 7642
 SALES & SERVICE . RENTALS

NATIONAL CITY, San Diego Co., Cal.—Sweetwater high school district contemplates calling a bond election soon to provide funds for the construction of new high school and junior high school buildings. A tentative building program, would entail an expenditure of approximately \$330,000.

VENICE, Los Angeles Co., Cal.—Venice municipal improvement district defeated a \$195,000 bond issue on April 24, proceeds from which were to have been used for the construction of a community auditorium in Venice.

CHURCHES

Plans To Be Prepared.
CHURCH Cost, \$12,000
ROSEVILLE, Placer Co., Cal.
 Church.
 Owner—First Methodist Church, Rev. J. W. Farr, pastor.
 Architect—Not Selected.

RIVERSIDE, Cal.—Calvary Presbyterian church is negotiating for the purchase of property just west of the Community Hospital as a site for a new edifice.

Bids To Be Taken May 15.
AUDITORIUM Cost, \$30,000
TUCSON, Arizona.
 Brick and stucco church auditorium to seat 1000.
 Owner—Trinity Presbyterian Church.
 Architect—Robert H. Oor, 1300 Corporation Bldg., Los Angeles.

To Take Bids In One Week.
CHURCH Cost, \$25,000
NAPA, Napa Co., Cal. SE Third and Pachett Streets.
 Reinforced concrete church.
 Owner—Episcopal Church, Napa.
 Architect—C. Leroy Hunt, Napa.
 W. C. Keig, Napa, is chairman of the building committee.

Preparing Preliminary Plans.
CHAPEL Cost, \$100,000
SAN RAFAEL, Marin Co., Cal. Grand Avenue and Locust St.

College Chapel.
 Owner—Dominican College, San Rafael.
 Architect—Arnold Constable, 580 Market St., San Francisco.
 Structural Engineer—K. Theill, 580 Market St., San Francisco.

Mechanical Engineer—Coddington Co., 122 Kearny St., San Francisco.

The building will be designed in the early perpendicular Gothic style of the 14th century. The exterior will be of natural stone with a slate roof. The chapel will have accommodations for 500 students on the main floor while on the gallery over the main entrance vestibule there will be additional accommodations for 100 students. The sisters' choir is provided in the south transept. The total cost of the building is estimated at \$100,000. It is expected that the plans will be ready for bids in August and the architect will invite a selected list of contractors to figure this work.

Sub-Bids To Be Taken In One Week.
CHURCH Cost, \$40,000
SAN PABLO, Contra Costa Co., Cal. Church and Market Streets.
 One-story reinforced concrete church (Mission style; tile roof; to seat 350).

Owner—St. Paul's Catholic Church, Rev. Eysto Tozzi, San Pablo, Architect—John Foley, 770 Fifth Ave., San Francisco.
Contractor—S. Rasori, Call Building, San Francisco.

The site of the new church is near the present St. Paul's church and upon its completion the old church will be placed in repair and used for a hall.

Plans Being Prepared.
SOCIAL HALL Cost, \$10,000
CARMEL, Monterey Co., Cal.
One-story frame and stucco social hall
Owner—Monterey Catholic Parish, Monterey.
Architect—Swartz & Ryland, Spazier Bldg., Monterey.

Heating and Ventilating Contract Awarded.
CHURCH Cost, \$—
SAN FRANCISCO. Funston Avenue and Judah St. (St. Anne's Church)
Plumbing, heating and ventilating for church.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.

Architect—Shea & Shea, 454 Montgomery St., San Francisco.
Heating and Ventilating—Andrew A. Pollia, 401 14th Ave., San Francisco, at \$9120.
Electrical bids will be taken from a selected list of contractors in about ten days.

As previously reported, general contract awarded to S. Rasori, Call Bldg., at \$186,000; plumbing to Dowd and Welch, 3558 16th St., at \$3968.

April 30, 1931
Preparing Working Drawings.
CHURCH Cost, \$40,000
CHICO, Butte Co., Cal.
Two-story brick church building.
Owner—Bidwell Memorial Church, (Rev. R. C. LePorte, Pastor).

Architect—Chas. F. Dean, California State Life Bldg., Sacramento.
The structure will be erected on the site of the old Presbyterian Church which was recently destroyed by fire. A portion of the old church building will probably be used in the erection of the new structure.

FACTORIES AND WAREHOUSES

Plans Being Completed.
WAREHOUSE Cost, \$—
OAKLAND, Alameda Co., Cal. West 14th Street Pier.
Superstructure for 1-story steel frame warehouse (518x100-ft.; Warehouse AA).
Owner—City of Oakland (Port Commission), 424 Oakland Bank Bldg., Oakland.
Lessee—Rosenberg Bros., 3rd and Bancroft, Oakland.

Plans by Eng. Dept. of Owner.
Steel frame and wooden girts and studs, galvanized iron covering, concrete floor on earth flooring.
Bids will be advertised for in one week.

Bids Opened.
SPRINKLER SYSTEM Cost, \$—
OAKLAND, Alameda Co., Cal. West 14th Street Pier.
Sprinkler system for one-story steel frame warehouse (518x100-feet; Warehouse AA).
Owner—City of Oakland (Port Commission), 424 Oakland Bank Bldg., Oakland.
Lessee—Rosenberg Bros., 3rd and Bancroft, Oakland.

Plans by Eng. Dept. of Owner.
Steel frame and wooden girts and studs, galvanized iron covering, concrete floor on earth flooring.
Following is a complete list of bids:
J. H. Pinkerton, 927 Howard St., San Francisco \$4,397

Turner Co., San Francisco, 4,443
Automatic Sprinkler Corp., San Francisco, 5,040
Star Sprinkler Co. of the Pacific, 5,800
Grinnell Co., San Francisco, 5,825
Viking Co., San Francisco, 6,000
Mechanical Contracting Co. S. F., 6,740
Bids held under advisement.

Plans Being Figured.
WAREHOUSE Cost, \$—
LOS ANGELES, Cal. Cor. E-15th and Imperial Sts.
Two-story Class B warehouse (heavy steel construction) (400x85 feet).
Owner—Braun Corporation, 363 New High St., Los Angeles.
Architect—Walker and Eisen, 1117 Western Pacific Bldg., Los Angeles

BENICIA Solano Co., Cal.—Shell Oil Co., Shell Bldg., San Francisco, has postponed indefinitely the construction of a distributing plant in East Fifth St.

Construction Started.
MFG. PLANT Cost, \$75,000
SALINAS, Monterey Co., Cal.
One-story brick vitamin manufacturing plant.
Owner—Leticaine Vitamin Co., Inc., Watsonville.

Plans by Mr. Prossit, Eng. Department, Chas. Dickens & Staff, 4 Key Route Arcade, Oakland.
Mgr. of Constr.—D. K. Prossit, % Chas. Dickens, Oakland (Salinas 284-J).

Contract Awarded.
PACKING SHED Cost, \$—
WALNUT GROVE, Sacramento Co.
Frame packing shed.
Owner—Southern Pacific Railroad Co., 65 Market St., San Francisco.
Architect—Eng. Dept. of Owner.
Contractor—E. Deas, Niles.

Sub-Contracts Awarded.
POULTRY BLDG. Cont. price \$48,225
SACRAMENTO, Sacramento Co., Cal. State Fair Grounds.
One-story brick poultry building.
Owner—State of California.

Architect—George B. McDougall, state architect, Public Works Building, Sacramento.

General Contract—Guth and Fox, 1528 27th St., Sacramento.
Concrete Work—Sacramento Building Block Co., 1730 27th St., Sacramento.

Brick Work—W. J. Clifford, 2815 S St., Sacramento.
Structural Steel—Minneapolis Steel & Machinery Co., 816 Chapman St., Los Angeles.

Steel Sash—Michel & Pfeffer, Harrison and 10th Sts., San Francisco.
Reinforcing Steel—Concrete Engineering Co., San Francisco.

Roofing—Capital Roofing Co., 2011 Q St., Sacramento.

Mastic Floor—Malott & Peterson, 20th and Harrison Sts., San Francisco.
Sheet Metal—McLaughlin Sheet Metal Works, 1914 J St., Sacramento.

Glass and Glazing—W. P. Fuller Co., 1013 12th St., Sacramento.

Painting—R. L. Leamon, 1109 Santa Barbara Way, Sacramento.

Plastering—V. Noreia, 3120 5th Ave., Sacramento.

Millwork—Burnett & Sons Mill, 12th and North B Sts., Sacramento.

Hardware—Murray & Low, 721 J St., Sacramento.

Rocks and Sand—Mucke Sand & Gravel Co., Mayhews Station, Sacramento
Plumbing—Carpenter & Mendenhall, 907 Front St., Sacramento.
Electrical Work—J. Thomas, 3216 L St., Sacramento.

GILROY, Santa Clara Co., Calif.—Cannery of Felice and Perelli destroyed by fire April 24 with a loss of \$250,000, covered by insurance. All equipment was destroyed.

Contract Awarded.
SHED, ETC. Cost approx. \$50,000
RENO, Nevada. Lake Street.
Freight shed, 268x40-ft., with loading platform, 380x16-feet, with steel "umbrella roof," office bldg., 72x42-feet.

Owner—Southern Pacific R. R. Co., 65 Market St., San Francisco.
Plans by Eng. Dept. of Owner.
Contractor—Ralph McLeran Company, Hearst Bldg., San Francisco.
Sub-bids will be taken shortly.

MODESTO, Stanislaus Co., Cal.—A. Green, Sycamore St., Modesto, at \$745 awarded contract by city council to construct a building over sludge pumping station to be used in conjunction with the sewage disposal plant at the sewer farm. Other bidders were: W. C. Drews, \$979; R. Miller, \$888, and H. Tannyaon, \$810, all of Modesto.

Sub-Figures Being Taken.
FACTORY Cost, \$250,000
SEATTLE, Wash. Eighth Ave. South.
Three-story and basement class A reinforced concrete factory and offices.

Owner—Tea Garden Products Co.
Plans by Austin Co.
Contractor—Austin Co., Dexter-Horton Bldg., Seattle.

To Take Sub-Bids In One Week.
FACTORY Cost approx. \$50,000
EMERYVILLE, Alameda Co., Cal.
One-story steel frame and brick factory.

Owner—Paraffins Companies, Inc., 475 Brannan St., San Francisco.
Engineer—Leland Rosener, 233 Sansome St., San Francisco.
Contractor—MacDonald & Kahn, Financial Center Bldg., San Francisco.

Plans Being Prepared.
MFG. PLANT Cost, \$—
BURBANK, Los Angeles Co., Cal. Cor. Front St. and Verdugo Ave.
Two-story underwear manufacturing plant (floor space 20,000 sq. ft.)
Owner—Cooper's, 750 S-Los Angeles St., Los Angeles.
Architect—Wm. F. Neff Co., Ltd., 4914 Loma Vista Ave., L. A.

Construction Under Way.
WAREHOUSE Cost, \$8,000
GRIDLEY, Butte Co., Cal.
Iron clad warehouse.
Owner—Shannon & Long, Gridley.
Architect—Not given.

Work is being done by day's labor by owners.

GARAGES AND SERVICE STATIONS

Sub-Contracts Awarded.
HANGAR, ETC. Cont. price, \$52,486
SACRAMENTO, Sacramento Co., Cal. Municipal Airport.

Steel frame and wood hangar and air terminal station.
Owner—City of Sacramento, H. G. Denton, city clerk.

Architect—Starks & Flanders, Forum Bldg., Sacramento.

Contractor—Campbell Const. Co., 800 R St., Sacramento.

Electrical Work—Geo. C. Foss, 1720 8th St., Sacramento.

Plumbing and Heating—F. A. McInerney, 2922 35th St., Sacramento.

Painting—Wilcoxson & Wilson, 1724 34th St., Sacramento.

Lathing and Plastering—Thos. F. Scollan Co., 2917 T St., Sacramento.

Cement—Calaveras Cement Co., 1304 J St., Sacramento.
Concrete Aggregate—American Fuel & Materials Co., 2701 Stockton Blvd., Sacramento.
Reinforcing Steel—Trucon Steel Co., Call Bldg., San Francisco.

repairing Plans.
SERVICE STATION Cost, \$10,000
 NIOCHO, Contra Costa Co., Cal.
 steel frame super service station.
 Owner—Standard Oil Co., 225 Bush
 St., San Francisco.
 Plans by Eng. Dept. of Owner.

Construction Started.
OPERATIONS Cost, \$—
 N. JOSE, Santa Clara Co., Cal.
 Market and Balbach Streets.
 Alterations and additions to one-story
 garage.
 Owner—John A. Corotto, 560 N-Fifth
 St., San Jose.
 Architect—Herman Krause, 243 N-
 Ninth St., San Jose.
 Contractor—T. J. Lannin, 312 S-9th
 St., San Jose.
Structural Steel and Miscellaneous
 Iron—San Jose Iron Works, 535
 West San Carlos St., San Jose.

GOVERNMENT WORK AND SUPPLIES

SACRAMENTO, Cal.—Until May 8,
 1931, M., under Order No. 3255-1800,
 bids will be received by U. S. Engi-
 neer's Office, California Fruit Bldg., to
 furnish and deliver Rio Vista, Solano
 County, miscellaneous electric supplies
 and equipment. Specifications obtain-
 able from above.

Work Opened.
ELEVATOR SHAFT Cost, \$—
 RE ISLAND, Calif.
 furnish and install elevator shaft in
 Mare Island Navy Yard Hospital.
 Owner—U. S. Government.
 Plans by Bureau of Yards and Docks,
 Navy Dept., Washington, D. C.
 The shaft and lobby will be built
 the exterior of the building extend-
 ing from the ground floor to the roof
 through the openings at five floors. The
 work involves excavation, concrete
 work, steel framing, hollow tile,
 galv. wood roof framing, tile roof-
 ing, electric work and heating.

Following is a complete list of bids
 received:
 1) Job complete with steel frame.
 2) Job complete with concrete con-
 struction.
 3) Add for hollow metal in place
 metal cover doors.
 H. W. Sullivan, 2927 39th Ave.,
 Oakland (1) \$9258; (2) \$8998; (3)
 \$379.
 Johnston-Stephenson Constr. Co., San
 Francisco (1) \$9767; (2) \$10,065;
 (3) \$150.
 J. S. Koller, Crockett (1) \$10,140;
 (2) \$9872; (3) \$350.
 Bid referred to Washington for
 award.

PEARL HARBOR, T. H.—Until June
 under Specification No. 6458, bids
 will be received by Bureau of Yards
 and Docks, Navy Department, Wash-
 ington, D. C., to furnish a 30-ton re-
 volving crane at the Naval Subma-
 rine Base, Pearl Harbor. Specifica-
 tions obtainable from the Public
 Works Officer, Room 513, 100 Harrison
 St., San Francisco.

SAN FRANCISCO—Malott & Pet-
 eron, 3221 20th St., at \$1099 sub-
 mitted lowest bid to Constructing
 Quartermaster, Fort Mason, for fur-
 nishing and laying magnesite floors
 Field Mess Building No. 29 at the
 terminal General Hospital.
 Following is a complete list of bids
 received:
 Malott & Peterson.....\$1099
 Restone & Roofing Co.....1188
 O'Brien Co.....1290
 Restone Co.....1354
 Lund & Skuse.....1759
 Field Flooring Co.....2050
 Bids held under advisement.

AHU, T. H.—In addition to those
 previously reported, the following are

prospective bidders for development of
 the Naval Ammunition Plant at Oahu,
 T. H., Ids for which will be opened
 by the Bureau of Yards and Docks,
 Navy Department, Washington, D. C.,
 June 17, under Specification No. 6101.
 The project covers the construction of
 131 buildings, approximately 1½ miles
 of railroads, 14½ miles of paved roads
 and electrical, telephone and water
 systems.
 Consolidated Supply Co., 1102 North
 Charles St., Balto.
 Sliems-Helmers, Inc., 1014 Guardian
 Bldg., St. Paul.
 Wm. MacDonald Const. Co., 1311
 Syndicate Trust Bldg., St. Louis.
 Pittsburgh - Des Moines Steel Co.,
 Neville Island Station, Pittsburgh.
 J. S. Thorn Co., Inc., 29th and Al-
 legheny Ave., Philadelphia.
 Honolulu Iron Works, 165 Broadway,
 New York City.
 Detroit Steel Products Co., 712 Barr
 Bldg., Washington.
 Fred Green, Palmyra, N. Y.
 Westinghouse Electric & Mfg. Co.,
 Washington.
 Crane Co., 1225 I St., N. W., Wash-
 ington.
 A. Dunlop, 2846 27th St., N. W.,
 Washington.

SEATTLE, Wash.—Following is a
 partial list of prospective bidders to
 erect Marine Hospital at Seattle,
 Washington, bids for which will be
 opened by the Supervising Architect,
 Treasury Dept., Washington, D. C.:
 Henrikson-Alstrom Const. Co., Inc.,
 Securities Bldg., Seattle.
 A. W. Quist Co., Exchange Bldg.,
 Seattle.
 Peder P. Qjarde, 430 Lyon Bldg., Se-
 attle.
 A. D. Belanger & Co., Central Bldg.,
 Seattle.
 J. E. Bonnell & Son, Washington
 Bldg., Tacoma, Wash.
 Universal Const. Co., Lumber Ex-
 change Bldg., Seattle.
 Walter & Brady, Seattle.
 W. T. Butler, Central Bldg., Seattle.
 Clinton Const. Co., E Marginal Way
 at Hudson St., Seattle.
 March Bros. Const. Co., St. Louis.
 Schuler & MacDonald, Inc., 1723
 Webster St., Oakland.
 Sound Construction & Engineering
 Co., Inc., Northern Life Bldg., Seattle.
 Western Const. Co., Seaboard Bldg.,
 Seattle.
 National Contracting Co., 2114 Fo-
 shay Tower, Minneapolis.
 L. H. Hoffman, 1217 Public Service
 Bldg., Portland, Ore.
 Wm. MacDonald Const. Co., Saint
 Louis.

Walter & Brady, Seattle.
 H. L. Cunliffe, MacDowall Bldg., Se-
 attle.
 MacDonald & Kahn Co., Ltd., Finan-
 cial Center Bldg., San Francisco.
 C. C. Cawsey, Title and Trust Bldg.,
 Seattle.
 DeWalt-Deitrick, Inc., Massillon Bldg.,
 Canton, Ohio.
 Harry Boyer Son & Co., Olympia,
 Wash.
 Thayer & Thayer, 219 W McGraw
 St., Seattle.
 Skinker & Garrett, Norwood Station,
 Cincinnati, Ohio.
 Walsby Const. Co., Hansen & Row-
 land, Washington Building, Tacoma,
 Wash.
 Hans Pederson, 1105 2nd Ave., Se-
 attle.
 T. Balkin Co., 1850 W Austin Ave.,
 Chicago.
 Chrisman & Snyder, 906 Smith Tower,
 Seattle.
 A. W. Quist Co., Exchange Bldg.,
 Seattle.

SAN FRANCISCO—Anchor Post &
 Fence Co., 450 5th St., at \$936 sub-
 mitted lowest bid to Constructing
 Quartermaster, Fort Mason, to repair
 wire fences at Fort Miley.

Following is a complete list of bids:
 Anchor Post Fence Co.....\$ 936
 Camlin Fence Co.....1,199
 Standard Fence Co.....1,369
 Receivers of Wickwire-Spencer
 Steel Co.....1,522
 Bids held under advisement.

Contracts To Be Awarded.
OFFICERS' QUARTERS Cost, \$90,000
 SAN FRANCISCO—Fresidio.
 Fifteen double sets of non-commis-
 sioned officers' quarters (each 2-
 story and basement, brick con-
 struction).
 Owner—U. S. Government.
 Plans by Quartermaster General's Of-
 fice, Washington, D. C.

General Work
 Frank J. Reilly, 6350 Fulton St.
Plumbing
 Frank J. Kilmn, 456 Ellis St.
 George Armstrong, 2390 Howard St.
 Heating bids are being held under
 advisement. Complete list of bids pub-
 lished April 17. Propositions accepted
 will be announced upon return of con-
 tracts from Washington.

PUGET SOUND, Wash.—Until June
 3, 11 A. M., under Specification No.
 6482, bids will be received by Bureau
 of Yards and Docks, Navy Depart-
 ment, Washington, D. C., to furnish
 250-ton stationery hammerhead crane
 electrically operated; 20-ton traveling
 tower crane having gasoline electric
 power; and 10-ton traveling gantry
 crane with traveling revolving jib
 having gasoline-electric power at the
 Navy Yard, Puget Sound, Wash-
 ington. Plans obtainable from above
 office on deposit of \$10.

SAN FRANCISCO—Until May 4, 11
 A. M., bids will be received by Con-
 structing Quartermaster, Fort Mason,
 for repairs to wire fencing at Fort
 Funston. Specifications obtainable
 from Constructing Quartermaster.

SAN FRANCISCO—Duncanson-
 Harrelson Co., deYoung Bldg., San
 Francisco, at \$1248 submitted lowest
 bid to Constructing Quartermaster,
 Fort Mason for wharf repairs at Fort
 Baker.
 Following is a complete list of bids
 received:
 Duncanson-Harrelson Co.....\$1248
 E. W. Peters.....1290
 Ben C. Gerwick.....1371
 Healy Tibbitts Constr. Co.....1340
 Bids held under advisement.

SACRAMENTO, Cal.—Until 3 P. M.,
 May 4, 1931, bids will be received under
 Order No. 3225-1800 by U. S. Engi-
 neer's Office, California Fruit Bldg.,
 Sacramento, to furnish and deliver,
 f.o.b. Rio Vista, 6 coils manila rope,
 4½" circumference, 3-strand.

SACRAMENTO, Cal.—Until May 5,
 3 P. M., under Order No. 3230-1800,
 bids will be received by U. S. Engi-
 neer's Office, California Fruit Bldg.,
 to furnish and deliver Rio Vista, Solano
 County:
 24 Pieces Pine, S4S, No. 2 clear and
 better; finished size ¾"x11½"x12".
 24 Pieces Pine, S4S, No. 2 clear and
 better; finished size ¾"x11½"x12".
 3 Pieces Oak, S4S, clear; finished
 size ¾"x11½"x12".
 6 Pieces Sugar Pine, S4S, clear; fin-
 ished size ¾"x11½"x12".
 12 Pieces Sugar Pine, S4S, clear; fin-
 ished size ¾"x11½"x12".
 15,000 ft.—1000 Pieces Pine or Fir,
 rough, No. 2 common, 1"x12"x16".
 6,400 ft.—400 Pieces Pine or Fir, rough
 No. 2 common, 3"x4"x16".

SAN FRANCISCO—Until May 2, 11
 A. M., bids will be received by U. S.
 Forest Service, Ferry Bldg., to fur-
 nish 170 miles of insulated emergency
 telephone wire. Specifications obtain-
 able from above.

HAWTHORNE, Nevada—Until May 20, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for treating approximately 83,000 sq. yds. gravel road with asphaltic fuel oil at the naval ammunition depot, Hawthorne, Nev.; deposit \$10 required for plans, obtainable from above.

ANACAPA ISLAND, Santa Barbara Co., Cal.—M. W. Lippman, 4344 S. Arlington Ave., Los Angeles, has been awarded contract at \$74,595 by the Superintendent of Lighthouses at San Francisco for construction of a light tower and other buildings on Anacapa Island. The buildings include a reinforced concrete light tower, 19 ft. in diameter and 50 ft. high; reinforced concrete power house, 41x25 ft.; reinforced concrete oil house; reinforced concrete fog signal building, 16x16 ft., four frame and stucco dwellings, two 5-room and two 6-room, one frame and stucco service building, 62x22 ft., and a frame tank house, 59x31 ft.; terra cotta, tile and asbestos shingle roofing, hollow metal doors, windows and frames, cast iron stairs, etc.

Sub-Bids Wanted.
ADDITION \$115,000 Appropriated **SAN FRANCISCO.** Letterman General Hospital.
 Three-story reinforced concrete addition to Ward No. P-1 and two-story reinforced concrete ward building (formerly Wards 10 and 11).

Owner—United States Government. **Architect**—Constructing Quartermaster, Fort Mason.

Rubber floors, terrazzo floors, tile wainscoting, radio system, electric fixtures, nurses' call system; all modern hardware, sterilization system, electric passenger elevator, modern hospital plumbing and considerable marble work.

Young and Horstmeier, general contractors, 461 Market St., San Francisco, desires sub-bids on all portions of the work in connection with above, for which general bids are to be opened April 30, 11 A. M.

COCO SOLO, C. Z.—Until May 20, under Spec. No. 6222, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for shopbuilding at the naval air station, Coco Solo, C. Z. The work includes timber piling, concrete construction, structural steel and iron work, steel sash, stairs and doors, asbestos covered metal siding, galvanized slat sheet steel, insulated steel roof deck, built-up roofing, glazing and painting. Deposit of \$10 required for plans, obtainable from Bureau. Following is a partial list of prospective bidders:

- Crescent Steel Co., 120 E Loughborough Ave., St. Louis.
- Hall-Hodges Co., Inc., 809 Citizens' Bank Bldg., Norfolk, Va.
- Wm. MacDonald Const. Co., 1311 Syndicate Trust Bldg., St. Louis.
- H. E. Nelson Const. Co., P. O. Box 636, Columbus, Ga.
- Belmont Iron Works, 22nd & Washington Aves., Philadelphia.
- Hercules Const. Co., 21 E 40th St., New York City.
- Hartenstine & Zane Co., Inc., 225 Broadway, New York City.

BOULDER CITY, Nevada—See "Waterworks," this issue. Bids wanted by U. S. Bureau of Reclamation for riveted plate steel surge tank, etc., in connection with Boulder Dam project.

SACRAMENTO, Cal.—Until May 7, 3 P. M., under Order No. 3244-1800, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to furnish and deliver Rio Vista, Solano County:

10 fire alarm boxes, break glass surface mounting. No. 2040, page 71, Graybar Cat. No. 100, or equal.

2 fire bells, full screen guarded, conduit box back model C, gong 14" 110-125 volt, direct current. No. C14, page 88, Graybar Catalog No. 100, or equal.

6 bells, full screen guarded, conduit box back, model C, gong 10", 110-125 volt, direct current. No. C10, page 88, Graybar Cat. No. 100 or equal.

12 water tight junction boxes. Nos. No. 190, page 830, Graybar Cat. No. 100, or equal.

Bids are being received under the same order for miscellaneous electrical materials.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Dept., Washington, D. C., to furnish and deliver miscellaneous supplies and equipment for Navy Yards and Stations as noted in the following schedules, further information being available from the Navy Purchasing Officer, 100 Harrison St., San Francisco:

Bids Open May 12

Mare Island and Puget Sound, purifiers, fuel and lubricating oil, and spare parts; sch. 5576.

San Diego, 6 electrically operated drinking fountains; San Pedro, 3 do.; sch. 5600.

Puget Sound, 12,000 ft. steel wire rope; sch. 5615.

Puget Sound, pumps, controllers and spare parts; sch. 5492, postponed from April 21 to May 12.

Long Beach, 1 motor truck chassis; sch. 5604.

Long Beach, 1 woodworking machine; sch. 5632.

Mare Island, 1 motor-driven 16 in. engine lathe; sch. 5617.

Mare Island, 1 motor-driven print drier; sch. 5619.

HALLS AND SOCIETY BUILDINGS

Plans Being Figured—Bids Close May 12.

MEMORIAL BLDG. Cost, \$15,000 **AUBURN, Placer Co., Cal.**
 One-story and basement frame and stucco Veterans' Memorial Bldg. **Owner**—County of Placer. **Architect**—W. E. Coffman, Forum Bldg., Sacramento.

Contract Awarded.
ALTERATIONS Cost, \$9627 **SAN JOSE, Santa Clara Co., Cal.**
 Market and Balbach Sts. Alterations and additions to one-story garage. **Owner**—John A. Corotto, 560 N-Fifth St., San Jose. **Architect**—Not Given. **Contractor**—T. J. Lannin, 312 S-Ninth St., San Jose.

Plans To Be Awarded. **HALL** Cost, \$— **TOMALES, Marin Co., Cal.**
 Town community hall. **Owner**—Tomales Community Hall Association, Tomales. **Architect**—Not Selected.

HOSPITALS

Preparing Plans—Contract Awarded. **HOSPITAL** Cost, \$750,000 **ALTADENA, Los Angeles Co., Cal.**
 Group of hospital buildings (class A steel frame construction). **Owner**—Sisters of Saint Joseph of Orange. **Architect**—Newton Ackerman, 102 W 4th St., Eureka. **Associate Architect**—Gene Verge, 1709 W 8th St., Los Angeles. **Contractor**—Barrett & Hilp, 918 Harrison St., San Francisco.

Mr. Ackerman will open offices 1 Los Angeles in the near future.

Being Done By Day's Work By Owner ALTERATIONS Cost, \$11,000 **SAN FRANCISCO, San Francisco**
 Hospital, 23rd St. and Potrero Av. Remodel laundry. **Owner**—City and County of San Francisco.

Architect—Bureau of Architecture (Mr. Sawyer), City Hall. Bids will be called for shortly.

Sub-Contracts Awarded.
COTTAGE Cont. Price, \$19,3 **STOCKTON, San Joaquin Co., Cal.**
 State Hospital Grounds.

Two-story reinforced concrete cottage for employees (floor area 6708 sq ft).

Owner—State of California. **Architect**—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Building Sacramento.

Contractor—Sam Eyre, Tracy. **Concrete**—D. DePauli, 382 Pleasa Ave., Stockton.

Heating—J. Black, Stockton. **Electric Wiring**—Hild Electric Co, 125 W. Main St., Stockton.

Mill Work—Union Planning Mill, Taylor and Sutter Sts., Stockton.

Structural and Reinforcing Steel—Klinger, Builders' Exchange, Stockton.

Roofing—San Joaquin Lumber Co, 125 W. Main St., Stockton.

Sheet Metal—Fraser Sheet Metal Co, 445 S-San Joaquin St., Stockton.

Painting—J. F. Ecker, Builders' Exchange, Stockton.

Plastering—Burwell & Beckham, 4 Sullivan Ave., Stockton.

As previously reported, electric work awarded to Hild Elec. & M. Co., 125 W. Main St., Stockton, \$1221; plumbing and heating to J. C. Black, 721 W Em St., Stockton at \$660.

Sub-Bids Being Taken. Cost, \$— **SAWTELLE, Los Angeles Co., Cal.**
 One- and two-story class A addition unit to reinforced concrete hospital.

Owner—Marian Davies Foundation Bldg.

Architect—Miss Julia Morgan, Merchants Exchange Bldg., San Francisco.

Contractor—F. A. Hellenenthal, 911 10th St., Santa Monica.

HOTELS

Plans Being Prepared. **HOTEL** Cost, \$100,000 **HEALDSBURG, Sonoma Co., Cal.**
 Six- story and basement reinforced concrete hotel (tile roof; 60,000 sq. ft. area; 50 baths).

Owner—A. W. Garrett, 403 Matheson Bldg., Healdsburg.

Architect—F. H. Slocombe, 62 York Drive, Piedmont.

Construction to start about June.

ICE AND COLD STORAGE PLANTS

Contract Awarded.
PRECOOLING PLANT Cost, \$50,000 **ORANGE, Orange Co., Cal.**
 Two-story and basement concrete brick precooling plant (55x158 ft. (50 car capacity).

Owner—Orange Mutual Citrus Assn. (L. F. Finley, Mgr.)

Architect—J. G. Vrydagh, 505 E-Bi St., Santa Ana.

Contractor—Adolf G. Schmid, Builders' Exchange Bldg., Santa Ana.

POWER PLANTS

BOULDER CITY, Nev.—According to the U. E. Bureau of Reclamation, Denver, Colo., bids for the construction of an electric distribution system at Boulder City will be called in about 60 days. The materials required will be:
 150 poles;
 1,090 lbs. copper wire;
 225 metres;
 16 transformers of various sizes;
 85 ornamental street lights and standards.

Plans Being Completed.
OPERATIONS Cost, \$—
URLINGAME, San Mateo Co., Cal.
 remodel one-story frame and stucco clubhouse.
 Owner—County of San Mateo (American Legion).
 Architect—E. L. Norberg, 580 Market St., San Francisco.
 Bids will be taken in one week.

HYDER, Alaska—Portland Canal of Seattle, Wash., has been granted a permit by the Federal Power Commission for construction of a hydro-electric power project on the avia River in southeastern Alaska. The first unit of the project will consist of a 400-ft. dam, estimated to cost \$14,756. Other work projected includes a 1900-ft. tunnel with concrete-lined diameter of 18-in., a diversion tunnel 800-ft. long, a penstock 10 ft. long and a 2900-ft. cableway. The project, which is located near Hyder, will involve an expenditure of \$2,000,000 when completed.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Plans Being Figured—Bids Close May 13, 2 P. M.
 Concrete and Cement Work and Masonry.
EGION BLDG. Cost, \$2,500,000
SAN FRANCISCO. Civic Center.
 One-story and basement concrete
 Class A Legion Building.
PERA HOUSE Cost, \$2,500,000
 six-story Class A opera house, seating capacity 4000; standing room, 500.
 Owner—City and County of San Francisco (S. F. War Memorial).
 Architect—G. A. Lansburgh, 140 Montgomery St., and Arthur Brown, 251 Kearny St., San Francisco.
 (figs. of Constr.—Lindgren & Swinerton, Inc., 225 Bush St., S. F.

Plans Being Figured—Bids Close May 13, 8 P. M.
ADDITIONS Cost, \$—
AN BRUNO, San Mateo Co., Cal.
 (for additions and remodeling city hall.
 Owner—City of San Bruno, Emil A. Bohm, city engineer.
 Architect—Not Given.
 The addition will consist of several small rooms, exterior plastering, etc. certified check or bond 10% required 14th bid. Plans on file in office of the clerk.

STOCKTON, San Joaquin Co., Cal.—county supervisors propose to consider installation of new time equipment for the courthouse in preparing the next budget. The county now pays \$38 per year for time service. A contract has offered to install county-wide time equipment for \$374. For \$1,900, or \$1,600 cash, the company will install an all-electric clock in the courthouse tower, a master clock and locks in 16 offices. This proposition has been taken under advisement.

STOCKTON, San Joaquin Co., Cal.—plans for the installation of a ventilating system in the county jail have

been submitted to the county supervisors for approval and bids for construction will be asked shortly. Estimated cost \$2,000.

Plans To Be Prepared.
CITY HALL Cost, \$25,000
WOODLAND, Yolo Co., Cal.
 City Hall.
 Owner—City of Woodland.
 Architect To Be Selected.
 The present structure has been condemned as unsafe and early construction of a new building is proposed.

Preparing Working Drawings.
ARMORY Cost, \$25,000
YUBA CITY, Sutter Co., Cal.
 One-story frame and stucco armory.
 Owner—State of California.
 Architect—Charles F. Dean, California State Life Bldg., Sacramento.
 Plans will be ready for bids in about two weeks.

RESIDENCES

Bids Opened.
COURT Cont. price, \$47,385
SAN CARLOS, San Mateo Co., Cal.
 One-story frame and stucco bungalow court.
 Owner—Withheld.
 Architect—Ernest Norberg, 580 Market St., San Francisco.
Low Bidder—Geo. Williams Co., Ltd., 1404 Broadway, Burlingame.
G. W. Williams Co., Ltd., Burlingame.....\$47,385
R. C. Stickle, So. S. F......48,382
Vogt & Davidson, S. F......49,272
Buschke & Johnson, Burlingame.....49,631
Young & Horstmeier, S. F......49,987
Daley Bros., San Mateo.....50,220
L. N. Pollard, Redwood City.....50,500
J. W. Cobby, S. F......51,598
 Bids held under advisement.

Preparing Working Drawings.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. El Camino Real.
 Two-story and basement frame and stucco residence with tile roof (9 rooms and 3 baths).
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Contractor—Selected; Withheld.
 Construction will start in about ten days and sub-bids will be taken.

Plans Being Completed.
RESIDENCE Cost, \$14,000
SAN FRANCISCO. Sherwood Forest.
 Two-story and basement frame and stucco residence, tile roof (SPANISH type) (7 rooms, 2 baths).
 Owner—Lang Realty Co., 39 Sutter St., San Francisco.
 Plans by Frank Nelson, 810 Ulloa St., San Francisco.
 Plans ready for bids in one week.

Plans Being Prepared.
RESIDENCE Cost, \$14,000
SAN FRANCISCO. Rock Ridge Terrace.
 Two-story and basement frame and stucco residence (Spanish type) (7 rooms, 2 baths), tile roof.
 Owner—Lang Realty Co., 39 Sutter St., San Francisco.
 Plans by Frank Nelson, 810 Ulloa St., San Francisco.
 Plans ready for bids next week.

To Be Done By Day's Work.
RESIDENCES Cost, \$15,000
SACRAMENTO, Sacramento Co., Cal.
 No. 1108-09-19 Perkins Way.
 Three one-story and basement frame and stucco residences.
 Owner and Builder—Land Drive Terrace, 815 J St., Sacramento.
 Plans by Owner.

Plans Being Prepared.
RESIDENCE Cost, \$8500
ORINDA, Contra Costa Co., Cal.
 Two-story and basement frame and stucco Spanish type residence (8 room and 2 baths, colored tile), tile roof.
 Owner—Withheld.
 Architect—Leonard H. Ford, 1435 Harrison St., Oakland.
 Working drawings will be started in one week.

Plans Being Completed.
RESIDENCE Cost, \$14,000
SAN FRANCISCO. Rock Ridge Terrace near Portola Drive.
 Two-story and basement frame and stucco residence, tile roof; Spanish type) (7 rooms, 2 baths).
 Owner—Lang Realty Co., 39 Sutter St., San Francisco.
 Plans by Frank Nelson, 810 Ulloa St., San Francisco.
 Plans will be ready for bids next week.

Contract Awarded.
RESIDENCE Cost, \$11,500
BURLINGAME, San Mateo Co., Cal.
 Lot 10 Blk 63-E-7 Montero.
 Two-story frame and stucco residence.
 Owner—Fred H. Brown, 1471 Drake Ave., Burlingame.
 Architect—Not Given.
 Contractor—C. B. McClain, 1412 Edgemoor Hill Drive, Burlingame.

Contract Awarded.
RESIDENCE Cont. price, \$10,147
SAN FRANCISCO. Marina District.
 Two-story and basement frame and stucco residence.
 Owner—F. Rathjens, 1327 Pacific Ave.
 Architect—Henry C. Smith and A. R. Williams, Humboldt Bank Bldg.
 Contractor—Strehlow & LeVele, Central and Webster, Alameda.

Contract Awarded.
RESIDENCE Cont. price, \$9,680
SAN JOSE, Santa Clara Co., Calif.
 Two-story and basement frame and stucco residence (15 rooms and 2 baths).
 Owner—C. P. Smith, 354 S 10th Street, San Jose.
 Architect—Charles McKenzie, Twoby Bldg., San Jose.
 Contractor—Dyke Walton, 1217 University Ave., San Jose.
 Others who submitted bids follows
 Frank Nevea, San Jose.
 George Honore, San Jose.
 Guy Latta, San Jose.
 George Leupes, San Jose.

Low Bidder.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.
 Two-story and basement rustic residence (7 rooms).
 Owner—C. Wesley Toy, 760 S 9th St., San Jose.
 Architect—Binder & Curtis, 36 W San Carlos St., San Jose.
 Low Bidder—George Honore, 136 Race St., San Jose, \$3290.
 Bids held under advisement.

Sub-Bids Being Taken.
BUNGALOW Cost, \$4000 each
SAN FRANCISCO. W Cayuga S Santa Rosa St.
 Two one-story frame and stucco bungalows (5 and 6 rooms).
 Owner and Builder—A. A. Wesendunk 1625 San Jose Ave., San Francisco
 Plans by E. K. Dobkowitz, 425 Monterey Blvd., San Francisco.

Plans Being Figured.
RESIDENCE Cost, \$10,000
PALO ALTO, Santa Clara Co., Cal.
 Washington Avenue.
 Two-story and basement frame and stucco residence (8 rooms, 2 baths)
 Owner—L. Bogard.
 Plans by E. Reichel, 303 University Ave., Palo Alto.

Contract To Be Awarded.
RESIDENCE Cost, \$130,000
WOODSIDE, San Mateo Co., Cal.
 Two-story and basement brick veneer residence (16 rooms).
 Owner—Walter Buck, 369 Pine St., San Francisco.
 Architect—Farr & Ward, 68 Post St., San Francisco.
 Contractor—Hamilton Constr. Co., 5144 Geary St., San Francisco.
 Sub-bids will be taken in about ten days.

Sub-Bids Being Taken.
RESIDENCE Cost, \$12,500
PIEDMONT, Alameda Co., Cal. Blair Avenue.
 Two-story and basement frame and stucco residence (8 rooms and 3 baths).
 Owner & Builder—Sigwald Bros., 916 Alma Ave., Oakland.
 Architect—Ray P. Keefer, 2281 Lakeshore Blvd., Oakland.

Bids Opened.
RESIDENCE Cost, \$—
STOCKTON, San Joaquin Co., Cal.
 One-story and basement frame and stucco residence (5 rooms).
 Owner—W. H. Griffin, Stockton.
 Architect—Victor Galbraith, Elks Bldg. Stockton.

Low Bidder—George Rok, 1724 West Cornell, Stockton.
 Shingle roof, gas heating system.
 Following is a complete list of bids:
 George Rok, Stockton.....\$6,189
 J. H. Leighton, Stockton..... 6,199
 John Cavanaugh, Stockton..... 6,300
 H. E. Vickroy, Stockton..... 6,555
 Bids held under advisement.

Contract Awarded.
RESIDENCE Cost, \$10,000
PALO ALTO, Santa Clara Co., Calif. Fulton Street.
 Two-story and basement frame and stucco residence (9 rooms and 2 baths).
 Owner—Mr. Taft.
 Plans by H. H. Dabinett.
 Contractor—H. H. Dabinett, 1765 Fulton St., Palo Alto.
 Sub-bids are in and will be awarded shortly.

Sub-Bids Being Taken.
RESIDENCE Cost, \$8,500
SAN FRANCISCO. Mount Davidson Manor.
 One-story and basement frame and stucco residence (7 rooms and 2 baths).
 Owner and Builder—A. Hallgren, 1594 29th Avenue.
 Architect—Not Given.

Contract Awarded.
RESIDENCE Cont. price, \$17,116
BERKELEY, Alameda Co., Cal. Hawthorne Terrace.
 Two-story and basement frame and stucco residence (9 rooms and 4 baths).
 Owner—E. H. Crocheron, 1865 Euclid Ave., Berkeley.
 Architect—Wm. C. Ambrose, 605 Market St., San Francisco.
 Contractor—T. D. Courtright, 5098 Manilla, Oakland.

To Take Bids In One Week.
RESIDENCE Cost, \$—
KENTFIELD, Marin Co., Cal.
 Two-story and basement frame and stucco residence (8 rooms and 3 baths).
 Owner—Withheld.
 Architect—W. E. Baumberger, 544 Market St., San Francisco.

Preparing Working Drawings.
RESIDENCE Cost, \$25,000
SAN FRANCISCO, Marina District.
 Two-story and basement frame and stucco residence (9 rooms and 4 baths).
 Owner—Withheld.
 Architect—Chas. Strothoff, 2274 15th Street.

Plans will be ready for bids in about three weeks.

Preparing Working Drawings.
RESIDENCE Cost, \$18,000
SAN FRANCISCO, Marina District.
 Two-story and basement frame and stucco residence (9 rooms and 4 baths).
 Owner—Withheld.
 Architect—Chas. Strothoff, 2274 15th Street.

Plans will be ready for bids in about three weeks.

Owner Taking Bids.
RESIDENCE Cost, \$15,000
HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and stucco residence (9 rooms and 3 baths).
 Owner—G. A. Euman, 1508 Floribunda, Burlingame, care McCormick Lumber Co., 1401 Army St., San Francisco.
 Plans by E. Reichel, 303 University Ave., Palo Alto.

Sub-Bids Being Taken.
RESIDENCE Cost, \$5000
SAN FRANCISCO. SW Naglee and Ney Streets.
 One-story and basement frame and stucco residence (5 rooms).
 Owner and Builder—Patrick Horgan, 915 Pierce St.
 Plans by B. K. Dobkowitz, 425 Monterey Blvd.

Preparing Preliminary Plans.
RESIDENCE Cost, \$30,000
WOODSIDE, San Mateo Co., Calif.
 Two-story and basement brick residence (15 rooms).
 Owner—Withheld.
 Architect—Henry H. Guttererson, 526 Powell St., San Francisco.

Contract Awarded.
RESIDENCE Cont. price, \$6,189
STOCKTON, San Joaquin Co., Cal.
 One-story and basement frame and stucco residence (5 rooms).
 Owner—W. H. Griffin, Stockton.
 Architect—Victor Galbraith, Elks Bldg. Stockton.
 Contractor—George Rok, 1724 W Cornell, Stockton.

Plans Being Revised.
RESIDENCE Cost, \$16,000
SAN JOSE, Santa Clara Co., Calif.
 Two-story and basement frame and stucco residence (6 rooms and 3 baths).
 Owner—Dr. E. E. Porter, Security Bank Bldg., San Jose.
 Architect—Wolfe and Higgins, Realty Bldg., San Jose.
 New bids will be called for shortly.

Construction Postponed.
RESIDENCES Cost each, \$60
SAN JOSE, Santa Clara Co., Calif.
 Three one-story and basement frame and stucco residences (6 rooms).
 Owner—Mary E. Cate, % Eichler, Burch & Moore, 235 S First S San Jose.
 Architect—Wolfe and Higgins, Realty Bldg., San Jose.
 Construction will be held up for a proximately two months.

Bids Opened—Held Under Advisement
BUNGALOW COURT Approx. \$45,000
SAN CARLOS, San Mateo Co., Cal.
 One-story frame and stucco bungalow court.
 Owner—Withheld.
 Architect—Ernest Norberg, 580 Market St., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Lakeshore Highlands.
 Two-story and basement frame and stucco and brick veneer residence (8 rooms, 2 baths).
 Owner—Withheld.
 Architect—Kent & Hass, 525 Market St., San Francisco.
 Contractor—Larsen & Larsen, R U Bldg., San Francisco.
 Electric and gas, hot air heat system, metal sash, cedar and o floors, slate roof, tile baths, linoleum and hardwood floors. Plans will be completed within one week.

Plans Being Completed.
RESIDENCE Cost, \$25,000
MONTGOMERY, Monterey Co., Cal. (1 mile drive).
 Two-story and basement frame and stucco residence.
 Owner—Withheld.
 Architect—Swartz & Ryland, Spaulding Bldg., Monterey.
 Bids will be called for shortly.

April 29, 1931
 Preparing Plans.
RESIDENCE Cost, \$25,000
SALINAS, Monterey Co., Cal.
 Two-story and basement frame and stucco residence.
 Owner—Withheld.
 Architect—Swartz & Ryland, Spaulding Bldg., Monterey.

Contract Awarded.
RESIDENCE Cost, \$40,000
SAUSALITO, Marin Co., Cal.
 One-story frame and stucco residence.
 Owner—A. F. Hall, 33 Miller St., Sausalito.
 Architect—Jack H. Gilman, Sausalito Contractor—Andrew Anderson, Johnson St., Sausalito.

ORNAMENTAL WIRE AND IRON WORK

IRON WIRE Fence and Gates

TENNIS COURT ENCLOSURES
WIRE SCREENS AND GUARDS

WEST COAST WIRE & IRON WORKS

SAN FRANCISCO, CALIFORNIA

86-863 Howard Street * * * Phone SUTTER 1136

Continuous Operation Since 1887

Sub-Bids Being Taken.
RESIDENCE Cost, \$6000
SAN FRANCISCO. E Capp Street S
 1st.
 Two-story and basement frame resi-
 dence (9 rooms, 2 baths; rustic
 and shipal exterior).
 Owner and Builder—G. Caranza, 374
 Shotwell Street.
 Architect—C. A. Berger, 309 Valencia
 Street.
 Tar and gravel roof.

Sub-Bids Being Taken.
RESIDENCES Cost each, \$10,000
SAN FRANCISCO. Monterey Heights.
 Two 2-story and basement frame and
 stucco residences (8 rooms and 2
 baths).
 Owner and Builder—G. W. Stanley, 467
 Turk Street.
 Architect—Harold G. Stoner, 601 Un-
 derwood Bldg.

SCHOOLS

Preparing Preliminary Plans.
GYMNASIUM Cost, \$25,000
MORGAN HILL, Santa Clara Co., Cal.
 Reconstruct gymnasium.
 Owner—Live Oak Union High School
 District, Morgan Hill.
 Architect—J. J. Donovan, 1916 Broad-
 way, Oakland.

OAKLAND, Alameda Co., Cal.—
 Oakland Board of Education awarded
 contracts for drapes and curtains for
 Fremont High School to:
 Stage Curtains—Fred E. Turner Co.,
 537 Market St., San Francisco, at
 \$1175.
 Drapes—C. F. Weber & Co., 650 2nd
 St., San Francisco, at \$479.

Preparing Working Drawings.
ORPHANAGE Cost, \$250,000
SACRAMENTO, Sacramento Co., Cal.
 Franklin Boulevard.
 Two-story and basement reinforced
 concrete orphanage (parochial
 school, dormitory, etc.).
 Owner—St. Patrick's Orphanage, Grass
 Valley.
 Architect—Harry J. Devine, California
 State Life Bldg., Sacramento.
 Plans will not be ready for bids for
 six or eight weeks.

Completing Plans.
ADDITION Cost, \$10,000
MODESTO, Stanislaus Co., Cal. High
 School site.
 One-story brick addition to high
 school.
 Owner—Modesto Union High School
 District.
 Architect—Davis-Pearce Co., Grant &
 Weber Sts., Stockton.
 Plans will be ready for bids in one
 week.

SAN FRANCISCO—Dunham, Carri-
 gan & Hayden Co., at 48c each
 awarded contract by City Purchasing
 Agent, under Proposal No. 706, to
 furnish 6000 keyless padlocks for
 School Department. To be Eagle No.
 04,942.

Plans Being Figured—Bids Close May
 11 at 8 P. M.
SCHOOL Cost, \$8000
LAKEPORT, Lake Co., Cal.
 One-story frame and stucco school (2
 classrooms).
 Owner—Sulphur Bank School District
 (Mrs. Luella B. Carr).
 Architect—N. R. Coulter, 46 Kearny
 St., San Francisco.
 Bids will be opened at Clear Lake
 Oaks.

To Ask Bids About May 15th.
ADDITION Cost, \$15,000
CASTROVILLE, Monterey Co., Cal.
 One-story reinforced concrete addition
 to school.
 Owner—Castroville Union School Dist.

Architect—W. H. Weeks, 525 Market
 St., San Francisco.

Plans Being Completed.
COLLEGE Cost, \$45,000
SANTA ROSA, Sonoma Co., Cal.
 Second unit of junior college (to house
 six science laboratories and two
 classrooms; offices and rest rooms;
 brick construction).

Owner—Santa Rosa Junior College
 District.
 Architect—W. H. Weeks, 525 Market
 St., San Francisco.
 Plans will be ready for bids in two
 or three weeks.

Plans Being Figured.
SCHOOL ENTRANCE Cost, \$3500
LOS GATOS, Santa Clara Co., Cal.
 Spanish type portico entrance for ele-
 mentary school.

Owner—Los Gatos Elementary School
 District.
 Architect—W. H. Weeks, 525 Market
 St., San Francisco.
 The new entrance will provide a fire
 exit for the second story. It will be
 of fireproof construction.

To Vote Bonds May 6th.
ALTERATIONS Cost, \$4500
MANTECA, San Joaquin Co., Calif.
 Three miles south of Manteca.
 Alterations and additions to school
 (add one room, etc.)
 Owner—Veritas Grammar School Dist.
 Architect—Ralph Morrell, Union Bldg.,
 Stockton.

Plans To Be Prepared.
ADDITION Cost, \$10,000
OAKLAND, Alameda Co., Calif. Mills
 College Campus.
 One-story concrete addition to art
 building.
 Owner—Mills College, Seminary and
 Camden, Oakland.
 Architect—W. H. Ratcliff, Jr., Cham-
 ber of Commerce Bldg., Berkeley.

Contract Awarded.
SCHOOL Cost, \$100,000
SAN FRANCISCO. Ninth Avenue and
 Geary Street.
 Three-story steel frame and concrete
 parochial school (80x100-ft.; audi-
 torium and 12 classrooms).
 Owner—Roman Catholic Archbishop of
 San Francisco (Star of the Sea
 Parish).
 Architect—J. J. Foley, 770 5th Ave.
 Contractor—Cahill Bros., 206 Sansome
 Street.
 Construction will start about June 1.

UPPER LAKE, Lake Co., Cal.—Un-
 til May 9, 1 P. M., bids will be re-
 ceived by W. C. Hunter, clerk, Upper
 Lake Grammar School District, to fur-
 nish and deliver school furniture, as
 follows:
 100 double portable auditorium chairs;

100 single portable auditorium chairs;
 5 teachers' desks;
 1 office desk;
 5 office chairs;
 34 size A Universal desks, No. 134;
 62 size B Universal desks, No. 134;
 72 size C Universal desks, No. 134.
 Further information obtainable from
 above.

Bids Opened.
GYM Cost, \$100,000
MONTEREY, Monterey Co., Cal.
 One-story reinforced concrete and tile
 gymnasium and rein. concrete
 and tile swimming pool.
 Owner—Monterey Union High School
 District.
 Architect—Swartz & Ryland, Spazier
 Bldg., Monterey.
 Complete list of the bids available
 from this office today.

SAN FRANCISCO—Until May 11, 3
 P. M., under Proposal No. 718 bids will
 be received by Leonard S. Leavy, city
 purchasing agent, 270 City Hall, to
 furnish and deliver manufactured
 furniture for the School Department.
 Specifications obtainable from city
 purchasing agent.

SAN FRANCISCO—Until May 11, 3
 P. M., under Proposal No. 717, bids
 will be received by Leonard S. Leavy,
 city purchasing agent, 270 City Hall,
 to furnish and deliver stock furniture
 for school department. Specifications
 obtainable from city purchasing
 agent.

SAN FRANCISCO—Until April 28,
 10 A. M., bids will be received by
 Architect H. A. Minton, 525 Market
 Street, San Francisco, for grading in
 connection with the proposed women's
 college to be constructed on Lone
 Mountain, Turk and Parker Sts., San
 Francisco, for the San Francisco
 College for Women. Approximately
 170,000 yards are involved.

Plans Being Figured—Bids Close May
 15th.
ADDITION Cost, \$—
LOS ANGELES, Calif. 1300 Brockton
 Avenue.
 Class A reinforced concrete school ad-
 dition (85x130-ft.).
 Owner—Los Angeles City School Dist.
 Architect—Not Given.

Preparing Plans.
SHOP BLDG. Cost, \$5000
SALINAS, Monterey Co., Cal.
 One-story frame shop.
 Owner—Salinas Union High School
 District, Salinas.
 Architect—Swartz & Ryland, Spazier
 Bldg., Monterey.

Plans Being Figured.
LIBRARY Cost, \$175,000
CLAREMONT, Los Angeles Co., Cal.

“Gold Medal” Safety Scaffolding
 for use on steel and concrete frame buildings; saves
 lives, time and money
 It pays to use the best Scaffolding Equipment
 whenever a Scaffold is required. The risk is
 always great.
THE PATENT SCAFFOLDING COMPANY
 270 13th Street, San Francisco - Phone HEMlock 4278
 Lessor of Suspended and Swinging Safety “Gold Medal” Scaffolding.

Reinforced concrete library.
Owner—Claremont College.
Architect—E. Kaufmann,
Union Bank Bldg., Los Angeles.

Plans Being Prepared.
LIBRARY Cost, \$—
LOS ANGELES, Cal. University Ave.
Four-story and basement library (15x
24 ft.) frame structure with
brick filler walls, concrete floor
joists construction, flat roof, brick
exterior with stone trim and mar-
ble inserts.
Owner—University of Southern Calif.
Architect—Cram & Ferguson and S.
E. Lunden, Rowan Bldg., Los An-
geles.

P. J. Walker Co., 111 W. M. Garland
Bldg., will manage construction of
the building and the Consolidated Steel
Corp., 1200 N. Main St., will fabricate
and erect the structural steel.

Bids Opened.
GYM Cost, \$100,000
MONTEREY, Monterey Co., Cal.
One-story reinforced concrete and tile
gymnasium and roof concrete
and tile swimming pool.
Owner—Monterey Union High School
District.
Architect—Swartz & Ryland, Spazier
Bldg., Monterey.
Following is a complete list of bids:

General Work
W. J. Ochs, American Trust
Bldg., San Jose.....\$39,284
M. J. Murphy, Carmel.....41,259
C. Dudley DeVelbiss, S. F.....42,647
W. C. Keating, Oakland.....43,562
Young & Horstmeier, S. F.....47,712
H. L. Petersen, San Francisco.....48,497
N. H. Sjoberg & Son, S. F.....48,982
J. J. Grodem, Alameda.....51,627

Heating
Barton-Oil-O-Matic, Monterey, (a)
\$16,775; (b) \$17,246; (c) \$20,005.
Anderson & Dougherty, Salinas (a)
\$17,322; (b) \$17,636; (c) \$20,070.
O'Mara & Stewart, San Francisco,
(a) \$17,586; (b) \$18,456; (c) \$21,000.
Phillips Heating & Plumbing Co.,
Monterey (a) \$19,776; (b) \$19,700; (c)
\$25,545.
G. D. Ball, Monterey, (a) \$21,912;
(b) \$23,912; (c) \$25,412.

Plumbing
Anderson & Dougherty, Salinas, \$10,422
Barton-Oil-O-Matic, Monterey... 10,992
Phillips Heat. & Plumbing Co.,
Monterey..... 12,987

Swimming Pool Equipment
Anderson & Dougherty, Salinas...\$5,262
O'Mara & Stewart, S. F..... 5,400
G. D. Ball, Monterey..... 5,674
Barton-Oil-O-Matic, Monterey... 5,839
Phillips Heat. & Plumbing Co.,
Monterey..... 6,600

Sheet Metal
Anderson & Dougherty, Salinas...\$3,632
Phillips Heat. & Plumbing Co.,
Monterey..... 3,894
Barton-Oil-O-Matic, Monterey... 4,421
Vosmer Sheet Metal Wks, Mon-
terey..... 4,000
Gunn Sheet Metal Co..... 4,636
Anderson & Dougherty submitted
bid complete for heating, plumbing,
sheet metal and swimming pool equip-
ment at \$35,158.

Lathing and Plastering
(a) work complete; (b) exterior plas-
ter; (c) interior plaster.
C. H. Overhulse, Carmel, (a) \$4-
989; (b) \$2,557; (c) \$2,432.
Leonard Bosch, San Francisco, (a)
\$5,456; (b) \$2,360; (c) \$2,600.
Jacobson & Nielsen, Pacific Grove,
(a) \$6,720; (b) \$3,241; (c) \$3,479.
W. N. Ingram, Monterey (a) \$7,200;
(b) \$3,581; (c) \$3,619.
Vincent Fatta, Oakland (a) \$7,550;
(b) \$3,400; (c) \$3,350.

Painting
Patterson Bros., 494 36th Street,
Oakland.....\$2,600
Raphael Co., San Francisco..... 2,975
Herman Krudwig, Pacific Grove. 4,834

Glass
W. P. Fuller Co., 301 Mission St.,
San Francisco.....\$942
East Bay Glass Co., Oakland..... 972

Ornamental Tile
C. L. Frost, Monterey.....\$2,374
Art Tile & Mantel, San Francisco 4,495

Steel Equipment Lockers
Patterson & Williams, San Jose, \$1,299
Fred. Medart, San Francisco..... 2,160
Worley & Co., San Francisco..... 2,315

Miscellaneous and Ornamental Iron
Framed Iron Works, 325 8th
St., Oakland.....\$2,549
Harrison & Standford, Monterey 3,718
Michel & Pfeffer, San Francisco. 4,048

Steel Sash
Central Supply Co., Salinas.....\$ 913
Truscon Steel Co., San Francisco 990
Michel & Pfeffer, San Francisco 1,050

Structural Steel
(a) fabricating and erecting; (b) fab-
ricating; (c) erection only.
Golden Gate Iron Works, San Fran-
cisco, (a) \$2,750.
Schrader Iron Works, San Francisco
(a) \$2,763; (b) \$2,260; (c) \$508.
Herrick Iron Works, Oakland, (a)
\$3,224; (b) \$2,424; (c) \$890.
Moore Drydock Co., Oakland (a) \$3-
158; (b) \$2,398; (c) \$760.

Roofing
(a) complete; (b) tile; (c) composition
The Work Lumber Co., Monterey (a)
\$2,700; (b) \$1,480; (c) \$1,220.
C. F. Frost, Monterey (a) \$2,825; (b)
\$1,757; (c) \$1,058.
Tynan Lumber Co., Monterey, (a)
\$2,985; (b) \$1,942; (c) \$1,043.

Oak Floors
Oak Floor Co., San Francisco.....\$1,695
J. W. Shoney, Pacific Grove..... 1,966

Stone and Brick Work
Ernest Jimenez, Carmel.....\$2,983

Electric Work
D. Searle, Monterey.....\$10,886
W. H. McConnell, Monterey..... 10,923
Chas. Langlais, San Francisco... 11,700

Linoleum
Rudolph Furniture Co., Monterey...\$84
Bids held under advisement. Alternates
may be seen at this office by
those interested.

To Vote Bonds June 3rd.
SCHOOL Cost, \$46,000
ARROYO GRANDE, San Luis Obispo
Co., Calif.

One-story elementary school.
Owner—Arroyo Grande School Dist.
Architect—Henry Smith and Albert
Williams, Humboldt Bank Bldg.,
San Francisco.

TAFT, Kern Co., Cal.—Until May
11, 7 P. M., bids will be received by
H. R. Kanode, clerk, Conley School
District, to furnish and deliver sup-
plies and equipment, as follows:
Specifications A.—Maintenance De-
partment: Janitor's supplies; hard-
ware supplies, tools, paint, etc.
Specification B.—Transportation De-
partment: Gas and oil; tools and
hardware supplies; miscellaneous gar-
age supplies.
Specification C.—Manual Training
Department: Tools, etc.
Specification D.—Athletic and play-
ground supplies.
Specification E.—General educa-
tional supplies.
Specifications and further informa-
tion obtainable from clerk, Box H,
Taft, Calif.

EAN FRANCISCO—Until May 25, 3
P. M., under Proposal No. 719, bids
will be received by Leonard S. Leavy,
city purchasing agent, 270 City Hall,
to furnish and deliver Opera Chairs
for the
(a) Balboa High School;
(b) Aptos Jr. High School;
(c) James Lick Jr. High School.
Specifications obtainable from above

BANKS, STORES & OFFICES

Contract Awarded.
STORE Cost, \$12,000
SACRAMENTO, Sacramento Co., Cal
2741 Riverside Bldg.
One-story store building.
Owner—O. Seifert, 4757 J St., Sacra-
mento.
Architect—Not Given.
Contractor—Campbell Construction Co
800 R St., Sacramento.

Plans Being Figured—Bids Close May
4th.
ALTERATIONS Cost, \$10,000
OAKLAND, Alameda Co., Cal. Colleg
Ave. and Ocean View Drive.
Alterations to bank for store.
Owner—Bank of America.
Architect—H. A. Minton, Eddy and
Powell Sts., San Francisco.

Preparing Plans.
OFFICE BLDG. Cost, \$90,000
SACRAMENTO, Sacramento Co., Ca
SW Tenth and N Streets.
One-story Class A reinforced concrete
fruit exchange office building (60
160 sq feet garage in rear 42 ft. sq.)
square)
Owner—California Fruit Exchange (L.
Nagle, General Manager), Sacra-
mento.

Architect—Starks & Flanders, Foru
Bldg., Sacramento.

Plans Being Figured.
STORE Cost, \$—
LOS ANGELES, Cal. 46th Street and
Broadway.
Two-story and basement class B brick
store (90x135-ft.)

Owner—S. H. Kress Co., Western Pa-
cific Bldg., Los Angeles.
Plans by Eng. Dept. of Owner.

Plans Being Figured.
ALTERATIONS Cost, \$—
SAN JOSE, Santa Clara Co., Cal. 14
S First Street.
Alterations and additions to pre-
ser one- and two-story stores (brick
walls and wood interior).

Owner—F. & W. Grand Stores.
Architect—Eider & Curtis, 35 W Sa-
n Jose St., San Jose.

Marble Contract Awarded.
ALTERATIONS Cost, \$15,000
SAN FRANCISCO, NE Grant Avenue
and Market Street.
Alterations to bank.
Owner—Wells Fargo Bank and Uno
Trust Co., Grant Ave. and Market
Street.

Plans by M. G. West Co., 117 Fro
Street.
Contractor—Barrett & Hlph, 918 Har-
rison Street.
Marble—Eisele & Dondero, 2885 Thir-
d Street.

Contract Awarded.
STORE Cost, \$25,000
OAKLAND, Alameda Co., Cal. Broad
Street.
One-story and basement class C ste-
frame, concrete and hollow tile de-
partment store.
Owner—Isadore Weinstein, 1041 Mat
ret St., San Francisco.

Architect—Wm. Knowles, 1214 Wet-
ter St., Oakland.
Contractor—Jacks & Irvine, 74 Ne-
Montgomery St., San Francisco.

LAKEPORT, Lake Co., Cal.—Post
office and store building owned by
Gene Carpenter destroyed by fire Ap-
18 with a loss of \$12,000, including th
stock; insurance of \$7,500 carried.

SANTA BARBARA, Cal.—San-
t Barbara Telephone Company has
reached an agreement with the count
planning commission relative to th
setback of the new telephone exchang
building the company will erect o
Valley Road, Montecito.

Contract Awarded.
STORE Cost, \$250,000
SACRAMENTO, Sacramento Co., Cal.
 Two-story reinforced concrete and steel frame store.
 Owner—S. H. Kress Co., Western Pacific Bldg., Los Angeles.
 Architect—John Fleming, 1031 South Broadway, Los Angeles.
 Contractor—Lindgren & Swinerton, Inc., California State Life Bldg., Sacramento.

Plans Being Completed.
MARKET Cost, \$200,000
BERKELEY, Alameda Co., Cal.
 One-story reinforced concrete drive-in market.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Addison St., Berkeley.
 Bids will be called for shortly.

Plans Being Figured—Bids Close May 2.
ALTERATIONS Cost, \$—
SAN JOSE, Santa Clara Co., Cal. S. First St. near San Carlos St.
 Alterations and additions to present one and two-story stores (brick walls and wood interior).
 Owner—Hale Bros. Co.
 Architect—Bender & Curtis, 35 W. San Carlos St., San Jose.

Plans Being Prepared.
DEPOT Cost, \$100,000
LAS VEGAS, Nevada.
 One- and two-story class C concrete depot and office building (250x50).
 Owner—Union Pacific R. R. Co.
 Architect—Gilbert S. Underwood, California Reserve Bldg., Los Angeles

Plans Being Figured—Bids Close May 7th.
STORE Cost, \$10,000
MELROSE, Alameda Co., Cal.
 One-story concrete store.
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of America Bldg., San Francisco.

Plans Being Figured—Bids Close May 4th.
STORE Cost, \$—
OAKLAND, Alameda Co., Cal. Ocean View Drive and College Ave.
 One-story reinforced concrete store (3 stores).
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of America Bldg., Eddy and Powell Sts., San Francisco.

Date of Opening Bids Postponed Until May 12th, 3 P. M.
STORE Cost, \$20,000
PACIFIC GROVE, Monterey Co., Cal.
 One-story and mezzanine floor reinforced concrete department store.
 Owner—Rose Bros., Pacific Grove.
 Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
 Following contractors will submit bids:
 S. H. Hooke, Monterey.
 C. W. Dempsey, Pacific Grove.
 Fred. McCrary, Monterey.
 Ralph Sharp, Pacific Grove.
 H. D. Coon, Carmel.
 Harold Geyer, Carmel.

Plans Approved.
RESTAURANT Cost, \$—
OAKLAND, Alameda Co., Cal. Outer Harbor.
 One-story frame restaurant.
 Owner—City of Oakland (Port Commission), Oakland Bank Building, Oakland.
 Plans by Eng. Dept. of Owner.
 Bids will be asked shortly.
Brick Contract Awarded.
BANK & STORE Cost, \$75,000
LOS BANOS, Merced Co., Cal.
 One-story brick bank and store (90x84-feet).
 Owner—Elmer Stone.

Architect—W. W. Harper, 251 Kearny St., San Francisco.
 Contractor—Monson Bros., 475 6th St., San Francisco.
Brick Work—John Pengelly, 1426 East Worth St., Stockton.

Plans Being Completed.
STORE, ETC. Cost, \$—
MONTEREY, Monterey Co., Cal. Alvarado Street.
 Two-story reinforced concrete store building, social hall, etc. (Spanish type).
 Owner—E. E. Gross, Reeside and Wave Sts., Monterey.
 Architect—Swartz & Ryland, Spazier Bldg., Monterey.
 Bids will be called for shortly.

Preliminary Plans Being Prepared.
ALTERATIONS Cost, \$—
BERKELEY, Alameda Co., Cal. Shattuck and Kittridge Aves.
 Alterations and additions to store.
 Owner—J. F. Hink & Son, Premises.
 Architect—W. H. Batcliff Jr., Chamber of Commerce Bldg., Berkeley.

Preparing Plans.
STORE Cost, \$30,000
MONTEREY, Monterey Co., Cal.
 One-story and mezzanine floor reinforced concrete store.
 Owner—Withheld.
 Architect—Swartz & Ryland, Spazier Bldg., Monterey.

Contract Awarded.
ALTERATIONS Cost, \$5500
SAN FRANCISCO, 604 Mission St.
 Alterations to front of office bldg.
 Owner—Bothin Real Estate Co., 604 Mission St.
 Architect—J. V. D. Linden, 604 Mission St.
 Contractor—F. R. Siegrist Co., 604 Mission St.

Plans Being Figured—Bids Close May 7th.
STORE Cost, \$20,000
OAKLAND, Alameda Co., Cal. E. Fourteenth St. and 46th Ave.
 Remodel bank for stores.
 Owner—Bank of America, Bank of America Bldg., San Francisco.
 Architect—H. A. Minton, Bank of America Bldg., San Francisco.

THEATRES

Preparing Working Drawings.
THEATRE Cost, \$400,000
STOCKTON, San Joaquin Co., Calif.
 Main Street bet. Market and Stanislaus Sts.
 Two-story class A theatre.
 Owner—National Theatres Syndicate, 25 Taylor St., San Francisco.
 Architect—Bliss & Fainweather, Balboa Bldg., San Francisco.

Preparing Plans.
THEATRE Cost, \$225,000
LOS ANGELES, Cal. No. 522 S. Broadway.
 Class A reinforced concrete theatre (82x155 feet).
 Owner—Chas. M. Cooper Co., Inc., Rives-Strong Bldg., Los Angeles.
 Architect—John M. Cooper, Rives-Strong Bldg., Los Angeles.

Plans Being Prepared.
THEATRE Cost, \$250,000
LOS ANGELES, Cal. Florence and Compton Aves.
 Reinforced concrete Class A theatre building with offices (to seat 2000).
 Owner—Fox West Coast Theatre.
 Architect—S. Charles Lee, 2404 W. Seventh St., Los Angeles.

Plans Being Prepared.
ALTERATIONS Cost, \$150,000
LONG BEACH, Los Angeles Co., Cal.
 Alterations and additions to theatre.
 Owner—Fox West Coast Theatre.

Architect—S. Chas. Lee, 2404 W-7th St., Los Angeles.

Sub-Figures Being Taken.
THEATRE Cost, \$100,000
LOS ANGELES, Cal. No. 522 S. Broadway.
 Class A theatre and stores (82x155ft.)
 Owner—Roxy Theatre Co., Chas. G. Andrews Co., Agents.
 Architect—John M. Cooper, 301 Rives-Strong Bldg., Los Angeles.
 Contractor—John M. Cooper Co., Inc., Rives-Strong Bldg., Los Angeles.

WHARVES AND DOCKS

EUREKA, Humboldt Co., Cal.—W. S. Selvage, Eureka, at \$16.50 each, awarded contract by city council for 40 piles in connection with foundation for new lifter at Municipal Water Plant, Hawthorne and Broadway Sts. Other bids: Mercer-Fraser Co., Eureka, \$18.20 each; F. J. Maurer and Son, \$19 each; engineer's estimate \$20 each.

Contract Awarded.
REPAIRS Cost, \$15,000
OAKLAND, Alameda Co., Cal. Outer Harbor (Alber Bros. Milling Dock)
 Repairs to dock.
 Owner—City of Oakland (Port Commission), 424 Oakland Bank Bldg., Oakland.
 Plans by Eng. Dept. of Owner.
 Lessee—Albers Bros. Milling Co.
 Contractor—D. G. Sueli, 1165 26th St., Oakland.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$105,524
SAN FRANCISCO, On Waterfront.
 Raise and reconstruct bulkhead wharf structures at Sections 8A and 9B of the seawall.
 Owner—State of California (Hartor Commission), Ferry Bldg.
 Engineer—Frank White, Ferry Bldg.
 Contractor—M. E. McGowan, 74 New Montgomery Street.
Lumber—Union Lumber Co., Crocker Bldg.
Steel—Truscon Steel Co., Call Bldg.
House Moving—D. J. Sullivan, 1942 Folsom Street.

LONG BEACH, Cal.—Consolidated Lumber Co., 122 W. Jefferson St., Los Angeles, submitted the low bid to harbor commission at \$11.50 per M. to furnish and deliver f. o. b. Pier No. 1, Inner Harbor or Municipal Pier "A," Outer Harbor, approximately 90 M. E. M., 2x12-in. creosoted Douglas fir, rough; Specifications, H. D. 54.
 Other bids were: Charles R. McCormick Lumber Co., \$12.50; J. H. Baxter & Co., \$43.

MISCELLANEOUS CONSTRUCTION

SAN JOSE, Santa Clara Co., Cal.—City council has ordered plans prepared for a pedestrian subway across E. Santa Clara St. between 6th and 7th Sts. Wm. Popp, city engineer.

OAKLAND, Cal.—D. E. Burgess, 602 S. Center St., Stockton, at \$21.60 submitted only bid to the county supervisors for paving the iron and steel work on the Fruitvale Avenue bridge. Bid rejected and bids will probably be asked at a later date.

GILROY, Santa Clara Co., Cal.—E. D. Soward, Gilroy, at \$768 submitted low bid to the Gymkhana Association to construct two sets of bleachers with 2,000 additional seats at Wheeler Field. Other bids, all taken under advisement, were: John Rikeshime, \$840; Howson Bros., \$985; K. Bush, \$1126.14; and R. O. Sommers, \$1185.

Plans Being Prepared.
REMODELING Cost, \$50,000
PALO ALTO, Santa Clara Co., Calif.
 Stanford Campus.
 Remodeling Stanford stadium (replace wooden stairs with concrete; additional toilet facilities).
 Owner—Stanford University, Palo Alto.

Engineer—Shirley Baker, 58 Sutter St. San Francisco.
 Bids will be taken about June 1st.
 Plans Completed.
FILM LABORATORY Cost, \$190,000
LOS ANGELES, Cal. No. 891 N. Grower Street.
 Two and three-story reinforced concrete Class A film laboratory (92x 135 feet).
 Owner—RKO Studios, 780 N. Grower St., Los Angeles.
 Architect—Eng. Dept. of Owner.
 Bids will be asked shortly.

SAN FRANCISCO—Until May 4, JI A. M., bids will be received by Constructing Quartermaster, Fort Mason, for repairs to wire fencing at Fort Funston. Specifications obtainable from Constructing Quartermaster.

Completing Plans.
TRACK Cost, \$200,000
BERKELEY, Alameda Co., Cal. University Campus.
 Reinforced concrete track Stadium Bowl (to seat 20,000 approx).
 Owner—University of California.
 Architect—Warren C. Perry, 260 California St., San Francisco.
 Plans will be ready for bids in thirty days.

Contract Awarded.
RECREATION CENTER
 Contract price, \$5,100
WOODSIDE, San Mateo Co., Cal.
 Recreation center (work involves club room, swimming pool, dressing rooms, kitchen, barbecue pit, aviary, etc.).
 Owner—Withheld.
 Architect—Noble and Archle T. Newsum, Russ Bldg., San Francisco.
 Contractor—F. C. Stolte, 3449 Lungna St., Oakland.

LOS ANGELES, Calif.—R. E. Hoyt, superintendent of construction, Los Angeles Playground and Recreation Department, has had preliminary plans approved and will start working plans at once for two swimming pools and grandstand to be erected at Exposition Park for the Olympic Games to be held in 1932. The swimming pools will be 18 meters wide and 30 meters long, concrete construction with tile lines, etc. The two grandstands will seat 5000 people and will contain two floors for dressing rooms, boiler rooms, filter system, etc. One will be reinforced concrete construction and the other will be frame. Temporary bleachers will be erected facing the second pool. The Olympic Games committee has appropriated \$35,000 for the work, the remainder to be appropriated by the city.

Contract Awarded.
STAGE Cost, \$—
CULVER CITY, Los Angeles Co., Cal. R K C Studio site.
 Frame and stucco stage bldg. (150x 34-ft.)
 Owner—Fathe Film Co., Los Angeles.
 Plans by Eng. Dept. of Owner.
 Contractor—Robert E. Millsap, Pacific National Bldg., Los Angeles.

Construction Under Way.
HOG FENS Cost, \$10,000
SAN PABLO, Contra Costa Co., Cal. Series of hog pens (frame construction).
 Owner—Oakland Scavenger Co., 2601 Peralta St., Oakland.

Architect—Not Given.
 Contractor—Beckett and Wight, 722 Seenic Ave., Berkeley.

Contract Awarded.
MORTUARY Cost, \$5900
SACRAMENTO, Sacramento Co., Cal. O Street.
 Two-story frame and stucco mortuary building.
 Owner—G. L. Klumpp, 830 O Street, Sacramento.

Architect—Harry Devine, California State Life Bldg., Sacramento.
 Contractor—Harry Robertson, 3004 F St., Sacramento.
 Plumbing and heating work will be done by owner.

STOCKTON, San Joaquin Co., Cal.—Students of the College of the Pacific will stage a series of socials to secure funds to finance construction of an indoor swimming pool.

MISCELLANEOUS SUPPLIES AND MATERIALS

SAN FRANCISCO—W. F. Fuller & Co., Dan F. Maher Paint Co. and Sherwin-Williams Paint Co., awarded contracts by City Purchasing Agent, under Proposal No. 697, to furnish linseed oil, shellac, turpentine, lead, litharge, mineral brown and putty as may be required during the tri-annual term commencing May 1 and ending Aug. 31, 1931.

MODESTO, Stanislaus Co., Calif.—Until May 14, 2 P. M., bids will be received by C. S. Abbott, secretary, Modesto Irrigation District, to furnish and deliver petroleum products, under Item No. E-15. Certified check 5% payable to district required with bid. Specifications obtainable from secretary.

BUSINESS OPPORTUNITIES

Names and addresses of persons or firms concerned in the following opportunities will be furnished on request to Business Opportunity Department, Daily Pacific Builder, 647 Mission St., San Francisco, or phone ARnel 8744.
2103—Furniture, San Francisco. French firm is interested in establishing contact with importers of furniture from the continent, and is desirous of obtaining information as to the prospects of marketing such products.

21025—Representation, San Francisco. Party in Napoli, Italy, is anxious to represent American manufacturers of radio receivers and radio-phonographs in Italy.

21032—Soda Water Making Machine, Ensenada, Mexico. A merchant wishes to secure a high power soda water making machine, with complete facilities for charging and bottling the water and turning out a finished product at the rate of 1000 to 1500 bottles per day.

21035—Marble Chips, Milan Italy. Association inquires for list of importers of marble chips for use in terrazzo work.

21036—Handtruck, Muenchen, Germany. Party desires representative for handtruck with device to elevate the loaded goods.

21037—Representation, Detroit Michigan. Party returning to South Africa is anxious to represent local manufacturers there.

21049—Almond Cracking Machine, Vancouver, B. C. Party is anxious to obtain information, also catalogue, regarding an almond cracking machine.

Claude H. Sook (Harrison Cook, Inc.), Frankfort Ave., Cleveland, O., manufacturing a line of electrical

merchandise wishes to contact party with view to representation.
 Geo. A. Mortland, Imperial Chemical Co., 2827 Hyans St., Los Angeles manufacturing a new cleaner for floor desires to secure representation in the San Francisco district.

W. S. Millener, Jr., 2846 West Lak St., Chicago, Ill., wishes to secure representative to handle a line of hollow metal window sows, 1 1/2 to 10 inch doors, ventilated skylights and vent lators.

\$9,000,000 SUITS FOLLOW ON MERGE

Cyrus S. Eaton, Cleveland finance who led the foes of the proposed \$100,000,000 Bethlehem-Steel-Youngtown Sheet & Tube merger, was attacked in three suits filed at Cleveland, Ohio, April 15. Joined with Eaton were some of his financial associates.

Two suits allege illegal stock transactions involving more than \$9,000,000. Because of the alleged illegal transactions, \$1,682,599.25 are due stockholders of Continental Share Inc., Eaton holding company, it was said.

One of the suits, filed by Charles S. Wachner, Cleveland attorney an Continental shareholder, asked an accounting and equitable relief.

The other, filed by W. K. Gardner attorney on behalf of the Paramount Coal & Coke Company, had previously asked a judgment of \$1,682,599.25 for the shareholders.

Business progress in a period of economic recovery like the present must depend in large measure upon co-operative effort. Individual activities directed toward establishing business on a basis of the soundest and most efficient operation is timely and constructive. Of far wider significance, however, is such a effort when undertaken by an industry for the benefit of the industry as a whole. Thus it is that the tremendous potential value of trade association in promoting business recovery through establishing sound trade practices and stimulating sales and advertising effort commends itself in the serious study, and support of the business world. Properly establishing the influence which trade associations are in a position to exert Daily Pacific Builder, in this issue presents a summary of their status with the thought that it may prove of value to those units of the construction industry not already represented by a trade association.

DAY LABOR PROJECTS PREVENTED BY COURT

A program for carrying out by day labor an extensive program of street paving and repaving in McKeesport Pennsylvania, was defeated recently when the Supreme Court of the state held that the city officials were not allowed to use the day labor method under the Clark Act of 1913.

This act provides that all third class cities of the state must have all work required, when the amount thereof exceeds \$250, performed under contract to be given the lowest responsible bidder, except the ordinary repair of highways, sewers and other public improvements.

A taxpayer's suit was instituted against the city officials when they announced their intention of carrying out the work, amounting to approximately \$25,000, by day labor.

The lower court held for the plaintiff and the case was appealed and carried to the Supreme Court which upheld the decision of the lower court.

Engineering News Section

BRIDGES

TULARE COUNTY, Cal.—Until May 20, P. M., bids will be received by State Highway Commission to construct four and widen two reinforced concrete slab bridges between Goshen and Kingsburg, varying in length from 30 ft. to 105 ft.

SAN FRANCISCO.—Until June 17, 2 P. M., bids will be received by W. W. Felt, Jr., secretary, Golden Gate Bridge and Highway District, 722 Financial Center Bldg., to construct the Golden Gate Bridge across the Golden Gate at the entrance to San Francisco Harbor, together with approaches, approach roads and certain accessory structures. Bonds of \$35,000,000 were voted by the district to finance construction.

The dates upon which the plans, specifications and terms of contracts will be available to bidders for the various departments of the work are as follows:

Contract No. 1.—Steel superstructure, involving 75,000 tons of structural steel and 28,000 tons of cables and fastenings. Plans now available for distribution to contractors.

Contract No. 2.—Main piers, plans available May 6.

Contract No. 3.—Anchorages, Plans available May 6.

Contract No. 4.—San Francisco and Marin approach spans, plans available May 13.

Contract No. 5.—Presidio Rd., plans available May 13.

Contract No. 6.—Sausalito Rd. plans available May 13.

Contract No. 7.—Paving of main and approach spans, plans available May 13.

Contract No. 8.—Electric work, plans available May 13.

Contract No. 9.—Cable housing and stairways, filling and grading, plans available May 13.

Contract No. 10.—T-011 terminals, plans available May 13.

Contract No. 11.—Furnishing cement specifications available May 13.

Applications for plans must be accompanied by a certified check of \$50 for each set, checks to be made payable to Golden Gate Bridge and Highway District. In addition to the San Francisco offices of the district, plans are obtainable from the offices of the Strauss Engineering Corp., 307 North Michigan Avenue, Chicago, Ill., and the offices of Leon S. Moisseiff, 68 Williams Street, New York City.

The official proposal on this project will be published in Daily Pacific Builder shortly.

STOCKTON, San Joaquin Co., Cal.—County Surveyor Julius Manthey preparing plans for Garwood Ferry bridge affording a connection from about 750 ft. north of the present bridge affording a connection from Charter Way to the Borden Highway after the latter is re-routed. Will be of the draw-span type, 320-ft. long with 24-ft. roadway. Estimated cost, \$70,000.

TULARE COUNTY, Calif.—As previously reported, bids will be received May 20 by State Highway Commission to construct four and widen two reinforced concrete slab bridges between Goshen and Kingsburg, varying in length from 30 to 105-ft. Project involves:

- (1) 640 cu. yds. concrete to be removed.
 - (2) 1600 cu. yds. structure excavation.
 - (3) 1465 cu. yds. class A Portland cement concrete;
 - (4) 250,000 lbs. reinf. steel;
 - (5) 1650 lin. ft. timber guard rail;
 - (6) 1 lot miscellaneous items of work.
- See call for bids under official proposal section in this issue.

SACRAMENTO, Cal.—Until May 21, 8:15 P. M., bids will be received by H. G. Denton, city clerk, to construct H street subway; estimated cost \$90,000. Southern Pacific Railroad to share one-half the cost. Project involves:

- (1) 179 30-foot untreated wooden piles;
- (2) 7250 cu. yds. excavation;
- (3) 700 cu. yds. backfill;
- (4) 1000 cu. yds. bow levee fill;
- (5) 35,000 lbs. reinforcing steel and mesh;
- (6) 950 cu. yds. Class "A" concrete
- (7) 580 cu. yds. Class "B" concrete;
- (8) 66.25 tons 33-inch steel girder beams;
- (9) 6 tons structural steel flood gates;
- (10) 16,800 sq. ft. concrete pavement;
- (11) 3960 sq. ft. 3 and 4-inch sidewalk;
- (12) 300 lin. ft. 2-inch, 2-rail pipe railing.

Project consists of an underpass, bow levee and flood gates.

Main structure, for underpass, to have gravity-type abutments built on piling. Deck to provide for three tracks, and consisting of 16, 33-inch 202 lb. Bethlehem steel beams, with a clear span of 38 feet, topped with a 10-inch concrete slab with one-inch of bituminous waterproofing. Five foot concrete walkways outside of and paralleling tracks.

Vehicle portion to consist of 30-foot California State Highway Commission standard concrete pavement, with 14 feet of vertical clearance, and with 7-foot pedestrian walk. Drainage to be disposed of by means of a sump and an automatically controlled electric pump.

Bow levee to enclose the vehicular lane between the main structure and the flood gate structure—a distance of about 200 feet. Top of bow levee to be about 13 feet above natural ground, with crown width of 13 feet and 2:1 side slopes.

Flood gate structure to have counterforted retaining walls and to be equipped with two steel gates 19 feet high, hinged at the walls and meeting at the roadway center line when closed.

Plans obtainable from Fred J. Klaus, city engineer, and on file in office of city clerk.

SAN FRANCISCO.—George Pollock, Forum Bldg., Sacramento, submitted the lowest bid to the Board of Public Works to construct bridge over the channel in Third Street; to be single leaf bascule type, 140-ft. span, 80-ft. overall width, 102-ft. between fenders with 6-ft. sidewalks and provision for two street railway tracks and the Belt Line Railroad in addition to vehicular traffic. A complete list of the bids received follows:

(1) Furnishing and erecting a bascule bridge superstructure and approaches, including the dismantling of the existing bridge anchors and appurtenances, and the construction of

all necessary foundations, piers, abutments and appurtenances, all in conformity with the plans and specifications.

(2) Furnishing and erecting a bascule bridge superstructure, including counterweight, machinery and appurtenances, all in conformity with the plans and specifications.

Geo. Pollock, Sacramento... (1) \$311,117
 ... (2) \$300,000
 Healy-Tibbitts Const. Co., (1) \$328,000
 San Francisco, (2) \$318,000
 Barrett & Hip, S. F. (1) \$321,230
 ... (2) \$313,050
 Selms-Helmers Co., Inc. (1) \$353,030
 San Francisco, (2) \$270,000
 Alternate (1) \$324,054
 Alternate (2) \$325,000
 Duncanson-Harrelson Co., (1) \$309,879
 San Francisco, (2) \$226,969
 All bids referred to Bureau of Engineering for report.

HUMBOLDT COUNTY, Cal.—Smith Bros. Co., Eureka, at \$106,180, submitted low bid April 29 to State Highway Commission to construct a bridge across South Fork of Eel River at Dryerville, consisting of one 250-ft. steel truss span, two 60-ft. reinforced concrete girder spans, four 45-ft. 6-in. reinforced concrete girder spans and one 33-foot reinforced concrete girder span on concrete piers, concrete abutments and a concrete abutment. Complete list of bids follows:

Smith Bros. Co., Eureka, \$106,180
 Peter McHugh, San Francisco 107,270
 Rocco & Colletta, San Rafael, 108,085
 Mercer-Fraser Co., Eureka, 105,410
 Frederickson & Watson, Oakland 111,822
 F. J. Maurer, Inc., Eureka, 120,193
 Jasper-Stacey Co., S. F., 123,261
 Ward Eng. Co., S. F., 136,190
 Bids held under advisement.

NAPA, Napa Co., Cal.—City council sets June 5 as date to vote bonds to finance construction of a new bridge in Third Street over the Napa river and another over the Brown St. crossing. For the Third St. bridge, bonds of \$35,000 are to be voted and for the Brown St. bridge, \$5,000. The Third St. issue will finance one-half the cost, the remaining half to be contributed by the county and state.

TRINITY COUNTY, Calif.—Whited, Santa Rosa, at \$7,324 submitted low bid April 29 to State Highway Commission to construct a reinforced concrete girder bridge across Browns Creek, consisting of one 32-ft. 6-in. span on concrete abutments with wing walls. Following is a complete list of bids received:

Whited & Whited, Santa Rosa, \$ 7,924
 A. Young, Yreka, 8,899
 F. H. Nielsen, Orland, 9,327
 A. T. Howe, Santa Rosa, 9,445
 John Berlinger, Orland, 9,622
 J. P. Brennan, Redding, 11,631
 Bids held under advisement.

SHASTA COUNTY, Calif.—J. P. Brennan, Redding, at \$49,161 submitted low bid April 29 to State Highway Commission to construct bridge across Clear Creek about 5 miles south of Redding, consisting of two 50-ft. steel stringer spans on concrete piers with pile foundations and eleven 42-ft. steel stringer spans on concrete pile bents. Following is a complete list of bids:

J. P. Brennan, Redding, \$49,161
 Geo. Ulrich Const. Co., Modesto \$70,596
 Frederickson & Watson and

Fredrickson Bros., Oakland 53,933
 R. F. McKenzie, Red Bluff..... 54,812
 Peter McHugh, S. F. not totaled
 Bids held under advisement.

DREDGING, HARBOR WORKS & EXCAVATIONS

SANTA MONICA, Los Angeles Co., Cal.—Fred S. Wilson, secretary of Santa Monica department of industry, has recommended to the city council that a bond issue be raised funds for the completion of the Santa Monica harbor breakerwater be placed before voters.

SAN FRANCISCO—Until May 13, 11 A. M., under Specification No. 6233, bids will be received by Public Works Officer, Twelfth Naval District, 100 Harrison St., for dredging approximately 26,000 cubic yards of sand and mud from the Inner Boat Harbor, and along the faces of the Long Wharf and the Oil Wharf at Yerba Buena island, and disposing of the material in an authorized dumping ground. Specifications obtainable from above on deposit of \$10, checks for same to be made payable to the Chief of the Bureau of Yards and Docks, returnable.

REDONDO BEACH, Los Angeles Co., Cal.—A petition asking that the city council call a bond election for raising \$800,000 to construct two breakwaters to form an outer harbor, has been presented to the city council.

STOCKTON, San Joaquin Co., Cal.—Hydraulic Dredging Co., Ltd., central Bank Bldg., Oakland, at \$16 cu. yd. awarded contract by city council for dredging 158,000 cu. yds. of material from city-owned property on the south side of Stockton Channel in the Boggs Tract.

MODESTO, Stanislaus Co., Cal.—City defeats proposal to issue bonds of \$15,000 to dam the Tuolumne river for development as a recreational center. The issue was defeated by 51 votes.

STREET LIGHTING SYSTEMS

PASADENA, Los Angeles Co., Cal.—City directors have adopted specifications for metal posts to be used in Prospect Crescent. The Union Metal Co. has agreed to furnish the standards at \$84.67 each.

SACRAMENTO, Cal.—Property owners are circulating petitions seeking to have city council install ornamental electroliter system in K St., comparable to those in J St., between 10th and 16th Sts. Fred J. Klaus is city engineer.

SAN FRANCISCO—Alta Elec. Co., Inc., 935 Howard St., at \$14,940 submitted low bid to the Board of Public Works to install street lighting system in Junipero Serra Blvd. Complete list of bids follows:
 Alta Electric Co..... \$14,940
 H. C. Reid Co..... 15,600
 Weidental-Gosliner Elec. W'ks 15,775
 R. Flatland..... 16,000
 NePage-McKenny Co..... 16,270
 Superior Electric Co..... 18,965

STOCKTON, San Joaquin Co., Cal.—Business interests propose to replace the present 4-light standard lighting system in downtown streets with an electroliter of the single-light type. Petitions seeking the installation will be presented by property owners to the city council shortly. The group desires to have the new electroliters installed on Miner avenue, between El Dorado and California streets, and

on Sutter, San Joaquin and Hunter streets between Weber and Miner avenues, Lyle Payton, city engineer.

SAN FRANCISCO—Weidental-Gosliner Electric Works, 352 10th St., at \$4,924 submitted low bid to the Board of Public Works to install street lighting system in Portola Drive between 24th Street and Evelyn Way. Complete list of bids follows:
 Weidental-Gosliner Elec. W'ks. \$4,024
 Butte Elec. & Mfg. Co..... 4,023
 R. Flatland..... 4,300
 Alta Electric Works..... 4,340
 H. C. Reid Co..... 4,650

MACHINERY AND EQUIPMENT

PUGET SOUND, Wash.—Until June 3, 11 A. M., under Specification No. 6482, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish 250-ton stationary hammerhead crane electrically operated; 20-ton traveling tower crane having gasoline electric power; and 10-ton traveling gantry crane with traveling revolving jib having gasoline-electric power at Navy Yard, Puget Sound, Washington. Plans obtainable from above office on deposit of \$10.

PEARL HARBOR, T. H.—Until June 10, under Specification No. 6458, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish a 30-ton revolving crane at the Naval Submarine Base, Pearl Harbor. Specifications obtainable from the Public Works Officer, Room 513, 100 Harrison St., San Francisco.

RAILROADS

SAN FRANCISCO—Public Utilities Committee of the Board of Supervisors has approved petition of Market Street Railway, 58 Sutter St., to extend its Turk St. line from Turk and Divisadero Sts. out Turk an across Arguello Blvd. and thence out Balboa St. to a point between 30th and 31st Sts. The application will be submitted to the board of supervisors next Monday for final approval. The project will involve an expenditure of \$400,000.

FIRE ALARM SYSTEMS

SANTA BARBARA, Cal.—An election will be held May 5 to vote on a \$24,000 bond issue for a traffic signal system using three-light type with bells.

SACRAMENTO, Cal.—See "Government Work and Supplies," this issue. Bids wanted for fire alarm boxes, bells, etc., under Order No. 3244-1800, by U. S. Engineer Office, Sacramento.

ALAMEDA, Alameda Co., Cal.—Fire Chief Walter T. Stehmetz has recommended the installation of fire alarm boxes on each floor of the city hall and the installation of a master alarm box at Santa Clara ave. and Oak st., and control boxes in the city hall, public library and city health center.

RESERVOIRS AND DAMS

SAN JOSE, Santa Clara Co., Cal.—William Popp, city engineer, reports plans have not yet been started for the proposed dam at Cherry Flat near Alum Rock Park. Test excavations for the foundations and abutments are now being made. It is contemplated that the preliminary work will be completed within thirty days. Pre-

liminary dimensions cover a dam ranging in height of from 50- to 55-feet with a width at the top of from 175- to 200-feet. It is estimated that the dam will impound 530-acre feet.

PIPE LINES, WELLS, ETC.

SIGNAL HILL, Los Angeles Co., Cal.—Bids will be asked shortly by city council to construct approximately 2.5 miles of 20-in. riveted steel pipe line between the city plant and the new well to be drilled at Ocean Ave. and South St., in connection with municipal water system.

SIGNAL HILL, Los Angeles Co., Cal.—Until 3 P. M., May 18, bids will be received by city council to drill 20-lands on Orange Ave. about 4 miles north of Signal Hill. Separate bids will be taken on drilling the well and furnishing the casing.

SEWERS AND SEWAGE DISPOSAL PLANTS

SANTA MARIA, Santa Barbara Co., Cal.—City Engineer York Peterson completes plans for verified sewer extension in North Broadway, involving 1500 ft. 12-in. vitrified sewer; 2250 ft. 10-in. vitrified sewer; 470 ft. 8-in. vitrified sewer; 6100 ft. 6-in. vitrified sewer. Temporary collecting tank; Pumping unit. Estimated cost, \$14,300. Hearing will be held May 4.

PHOENIX, Ariz.—Until 10 A. M., May 23, bids will be received by city council to construct three units included in sewage disposal system to be built under the \$317,000 bond issue. Bids may be submitted on any one or all of the following:

- (1) Sewage treatment and disposal plant.
- (2) Main trunk line sewer.
- (3) City sewer lines feeding into main trunks.

Alternate sites for the disposal plant may be bid on. They are 23rd Ave. near lower Buckeye Road, and 27th Ave. near lower Buckeye Road. The treatment plant will have a capacity of 15,000,000 gallons per day.

Plans prepared by W. J. Jamleson, city engineer, and C. C. Kennedy, Cal Bldg., San Francisco, consulting engineer.

FRESNO, Fresno Co., Cal.—E. W. Redmond, Fresno, awarded contract by city council (109) to construct sewers in Coast avenue, involving: 456 lin. ft. 6-in. vitrified pipe sewer; 1 manhole.

SAN BRUNO, San Mateo Co., Cal.—Until May 13, 8 P. M., bids will be received by Emil A. Bohm, city clerk, (1284) to sewer El Camino Real between San Felipe Ave. and Crystal Springs Ave., involving 6-in. and 8-in. vit. pipe sanitary sewer with 4-in. wye branches; 8 brick manholes. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

WATER WORKS

WHITTIER, Los Angeles Co., Cal.—City rejects bids to furnish 150,000-gal. steel water tank for Rideout Heights, Pittsburgh - Des Moines Steel Co., low at \$6945 with and \$6515 without balcony.

LAS VEGAS, Nev.—Wheelwright Construction Co., Ogden, Utah, awarded contract by U. S. Bureau of Reclamation, Las Vegas, at \$38,452.70 to con-

struck 10-in. and 12-in. diameter high pressure water supply pipe line for Boulder City, Nevada, water system, Boulder Canyon Project. The work is located near Las Vegas, Nev., on the Los Angeles and Salt Lake Railroad, Union Pacific System. The principal items of work and the advance estimated quantities involved are approximately as follows: 19,000 cu. yds. of all classes of trench excavation; 15,000 cu. yds. of trench backfill; 35,000 lb. ft. of pipe laying (10-in. and 12-in. diameters); 45 cu. yds. of reinforced concrete; 1700 sq. yds. of rock protection; 150 cu. yds. of dry rock wall.

BEVERLY HILLS, Los Angeles Co., Cal.—Klumb-Krogh Co., 1010 E. 62nd St., Los Angeles, awarded contract by city council at \$1940 plus \$120 for Parkership, to furnish 80-cycle water pump for plant No. 2.

MODESTO, Stanislaus Co., Calif.—City council appropriates \$2,500 to finance purchase of two sand traps for municipal pumping plants. Frank J. Rossi, city engineer.

FRESNO, Fresno Co., Cal.—Bids to furnish and install three pumps for the municipal water system have been taken under advisement. Claude Weekes, manager of the Water Department, objects to acceptance of the lowest bid, that of the Layne Pump Co. which is \$89 lower than the next low bid. Weekes declares there is a 5% difference in efficiency in the pumps.

CORCORAN, Kings Co., Cal.—Until May 4, 8 P. M., bids will be received by Jas. C. Condon, city clerk, to furnish and deliver, f.o.b. Corcoran: 1,600 ft. 8-in. c.i. bell and spigot pipe, class B; 304 ft. 6-in. do; 3 8x8x6-in. tees; 1 8-in. increaser; 2 8x4x4-in. tee. Certified check 10% payable to city required with bid.

CORCORAN, Kings Co., Cal.—Until May 4, 8 P. M., bids will be received by Jas. C. Condon, city clerk, to furnish and install one new turbine pump and motor installed complete with wiring and hand starter. Pump to have 120-ft. setting with 20-ft. of suction; capacity of 500-g.p.m. Motor 25-hp., 220-volt, 3-phase. Alternative bids on used pump and motor of the above specifications will be considered. Certified check 10% payable to city required with bid. Further information obtainable from clerk.

MANHATTAN BEACH, Cal.—Until 8 P. M., May 21, bids will be received by city council for furnishing the city a 600-g.p.m. turbine pump, with motor. Spec. obtainable from Merritt J. Crandall, city clerk, after May 1.

LINDSAY, Tulare Co., Cal.—Until May 12, 8 P. M., bids will be received by E. V. Bogart, city clerk, to furnish and install direct connected pump one well in city park. Certified check 10% payable to city required with bid. Specifications on file in office of clerk.

SOUTH GATE, Los Angeles Co., Cal.—Until 8 P. M., May 5, bids will be received by city council to furnish and install deep well pump, direct connected electric motor, and appurtenances. Specifications obtainable from H. C. Peiffer, city clerk. Certified check, 10%.

EUREKA, Humboldt Co., Cal.—Until May 5, 5 P. M., bids will be received by John Griffith, city superintendent of public works, 524 D St., to construct four wood filter tanks at

Hawthorne St. and Broadway. Certified check 10% payable to city required with bid. Plans obtainable from E. D. Gardner, city engineer.

CALEXICO, Imperial Co., Cal.—May 15 has been set as date for election to vote on a \$20,000 water works bond issue. The proceeds will be expended for pipe line extensions, new tank, and tower.

STOCKTON, San Joaquin Co., Cal.—County Surveyor Julius Manthey has been authorized by the supervisors to purchase portable pumping equipment for use in fighting fires in the Delta region.

BOULDER CITY, Nevada—Until May 11, 2 P. M., under Specifications No. 523-D, bids will be received by U. S. Reclamation Service, Denver, for the furnishing, fabrication, erection and painting of one riveted plate steel surge tank; one plate steel sump tank and flume; one 7-foot diameter aerator tank with accessories; and one air vent pipe 12 inches in diameter by 45 feet high, and accessories, for the Boulder City, Nevada, water supply system, Boulder Canyon Project, Arizona-California Boundary, approximately 23 miles southeast of Las Vegas, Nevada, on the Los Angeles and Salt Lake Railroad. The estimated quantities of metal involved are: 16,400 lbs. Surge tank, 4-ft. dia. by 90 ft.;

10,700 lbs. Sump tank, 19.5-ft. dia. by 15 ft.; 3,600 lbs. Aerator tank, 7-ft. dia.; 2,200 lbs. Air vent pipe and accessories.

Foundations and bases will be constructed by the government. Unloading and handling of fabricated material to sites will be done by the government. Plans obtainable from the office of the Reclamation Bureau at Denver or at Las Vegas, Nev.

BOULDER CITY, Nevada—Bids for furnishing pressure control equipment for the Boulder City water supply project were opened by the U. S. Bureau of Reclamation, Denver, Colo., April 17. The bids were taken on the following equipment:

- (1) Six automatic hydraulic operated control valves, two automatic check valves and two automatic relief valves.
- (2) Four automatic air valves.

Specifications No. 516-D. The bids were:

The Pelton Water Wheel Co., San Francisco—Net: (1) F. O. B. point, San Francisco, 30-cu. ft. delivery, total shipping weight, 5200 lbs.; f.o.b. cost, \$4,433; F. O. B. price, \$4433; guaranteed characteristics—max. pressure rise, 50 lbs., max. loss of head, 2 ft.; (2) F. O. B. point, San Francisco, 30 cu. yds. delivery; 1250 lbs., f.o.b. price, \$1148.

Automatic Cone Valve Co., Chicago, Ill.—1% 10 days: (1) F. O. B. point, York, Pa.; 75 days; F. O. B. Cost, \$15,400; discount \$154; F. O. B. price, \$15,246; guaranteed characteristics, max. loss of head, 4 lbs.; (2) no bid.

LOS ANGELES, Calif.—Until 11 A. M., May 1, bids will be received by the Los Angeles city purchasing agent Thomas Oughton, for furnishing two horizontal centrifugal pumps under Specifications No. 2437, for department of water and power.

GRIDLEY, Butte Co., Cal.—Pacific States Cast Iron Pipe Co., 111 Sutter St., San Francisco, a \$2,000 for pre-cast pipe, awarded contract by city council to furnish and deliver: 1,500 ft. 6-in. class B cast iron bell and spigot pipe; do; 2,000 ft. 4-in. do; 8 4-in. double hub fittings side out-

ward tap 2-in. standard thread 2 6x4-reducers, bell and spigot; 2 4x4 all bell tees; 12 4-in. plugs tap 2-in. standard thread 6 6-in. do;

Complete list of bids follows:
C. G. Claussen & Co., 825 Folsom St. San Francisco, \$1856.20
Pacific States Cast Iron Pipe Co., 111 Sutter St., San Francisco, \$2004.00
American Cast Iron Pipe Co., 808 Balboa Bldg., San Francisco, \$2,045.20
Crane Co., Sacramento, \$2095.20
United States Pipe & Foundry Co., Mondnock Bldg., San Francisco, \$2,103.60.

PLAYGROUNDS & PARKS

SAN MATEO, San Mateo Co., Cal.—City council declares intention (30-10) to plant trees and shrubs in Baywood Park. Estimated cost, \$3,248, including five years maintenance. Work under 1915 Bond Act. Hearing May 4. E. W. Foster, city clerk.

STREETS AND HIGHWAYS

EUREKA, Humboldt Co., Cal.—Until May 12, 2 P. M., bids will be received by Fred M. Kay, county clerk, to widen Kneeland Prairie Road in Road District No. 4. Certified check 5% required with bid. Specifications obtainable from Frank E. Kelly, county surveyor.

SAN FRANCISCO—California Construction Co., Standard Oil Bldg., has been awarded the contract by Fernando Nelson & Sons, Ocean Ave. and West Gate Drive, for the street paving and sewers in the new tract at Sloat Blvd. and 19th Ave. Way Concrete Co., 365 Ocean Ave., has the contract for curbs and sidewalks. Five hundred residents to walk between \$7,500 and \$12,000 will be erected in the tract; plans being prepared by the owners.

MARIPOSA COUNTY, Cal.—Until May 11, 2 P. M., bids will be received by E. E. Wallace, district engineer, State Highway Commission, P. O. Box 1353, Fresno, to treat with heavy fuel oil as a dust palliative 11.8 miles in Mariposa county, between Mariposa and Sorenson on the Ericburg Grade. Specifications obtainable from engineer.

SANTA CLARA COUNTY, Cal.—Col. John B. Skeggs, district engineer, State Highway Commission, State Bldg., San Francisco, announces surveys are being made for the extension of the Bayshore Highway from Palo Alto to the Sunnyvale Air Base and on to the Alviso-Mountain View Road.

SANTA CRUZ COUNTY, Cal.—Colonel John B. Skeggs, district engineer, State Highway Commission, State Bldg., San Francisco, announces surveys will be started shortly to rebuild six miles of the Santa Cruz Grade, involving re-routing and reconstructing from Inspiration Point to Scotts valley, making the grade about two miles shorter and saving away with a large number of curves.

NEVADA CITY, Nevada Co., Cal.—County Supervisors declare intention to improve County Road between Grass Valley and Colfax; from city limit of Grass Valley on Colfax Ave. via Empire mine, Peardale and Chicago Park to Bear River Bridge, Acq. and Imp. Dist. No. 2, involving re-grading, resurfacing and eliminating bad curves. Work under Acq. and Imp. Act of 1925. Hearing May 6. J. F. O'Connor, engineer for district, Nevada City. R. N. McCormack, county clerk.

HAWTHORNE, Nevada—Until May 20, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for treating approximately 83,000 sq. yds. gravel road with asphaltic fuel oil at the naval ammunition depot, Hawthorne, Nev. Plans for this work are also obtainable from the office of the Twelfth Naval District, 100 Harrison st., San Francisco, on deposit of \$10, returnable.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, completing specifications to extend of East ave. from Mission to Howard sts., estimated cost \$50,000. This is a unit of the Boulevard Bond Issue voted in 1927.

MONTEREY, Monterey Co., Cal.—City council rejects lone bid of Clark & Henry Constr. Co., Chancery Bldg., San Francisco, to improve Teresa St., bet. Monroe and Clay Sts., and Garret St. from Clay to High Sts., and from High St. to the U. S. Military Reservation, involving 2½-in. asphaltic base pavement, 12-ft. concrete sidewalk, \$195 sq. ft.; concrete sidewalks, \$19 sq. ft.; conc. curbs and gutters, \$110 lin. ft.; 12-ft. sidewalk crossings, \$16.50 ea.; 22 4-in. house connection sewers, \$11c. New proceedings will be started, omitting one block included in the original proceedings.

TURLOCK, Stanislaus Co., Cal.—Bids will be asked shortly by the Modesto and Turlock Irrigation Districts, jointly, to construct proposed north road into Don Pedro, 3 miles in length; estimated cost \$21,000, exclusive of surfacing. R. V. Melkle is chief engineer of the Turlock Irrigation District.

BURLINGAME, San Mateo Co., Cal.—City council declares intention to improve Newhall Road for its full length involving cleaning, grading, 6-in. water bound macadam base with 2½ in. asphaltic surface; bit. macadam walk; cross drain 10-in. concrete pipe; catchbasin; extn. of sewer laterals; concrete curb returns. 1911 Act. Hearing May 4, 8 P. M. J. R. Murphy, city clerk.

RICHMOND, Contra Costa Co., Cal.—City council declares intention (484) to improve Tenth St., between south line of Dock Ave. and south end of Tenth, involving grading; 4-in. broken rock crush; 2-course pavement consisting of cement concrete base reinforced with steel dowels, 8 in. thick; 2-in. asphalt concrete surface; portions of exist. pave. to be resurfaced with asphalt concrete; cement concrete curbs, gutters, sidewalks; vitrified sewer, etc. 1911 Act. 1915 Bond Act. Hearing May 4, 8 P. M. Edward A. Hoffman, city engineer. A. C. Paris, city clerk.

NEVADA COUNTY, Cal.—Until May 4, 2 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, for the construction of underdrains at various locations in Nevada County, between Donner Lake and 1 mile west of Truckee. Specifications obtainable from the engineer.

SACRAMENTO, Cal.—Sacramento Northern Railway will commence at once on 5-year paving program involving an expenditure of \$250,000. Work to be undertaken this year includes repaving north track on X St. from 28th to the Western Pacific crossing, bet. 19th and 20th streets; repaving single track on Front St., bet. X and S Sts., and repaving both tracks from the Western Pacific tracks to 16th St.

SANTA ANA, Orange Co., Cal.—Until 11 A. M., May 5, bids will be received by county supervisors to improve Manchester Ave., from Grand Ave. to Artesia St., and Commonwealth Ave. from Manchester Ave. to the Fullerton city limits, about 1.23 miles, involving:

- (1) 12,700 cu. yds. grading;
 - (2) 4,550 cu. yds. cement concrete pavement (9-7-7-9-in. section, 22 ft. wide).
- Est. cost, \$60,000. The work will be paid for in cash. Plans obtainable from Nat H. Neff, county road superintendent. J. M. Backs, county clerk.

Yreka, Siskiyou Co., Cal.—Informative bids received by the city trustees for a street paving program indicate that the cost will run \$32,916 for concrete as against \$39,215 for asphaltic pavement. A meeting of the city trustees will be held April 23 when a selection of type of pavement will be made. Arthur O'Connor is city engineer.

ANTIOCH, Contra Costa Co., Cal.—City Engineer E. L. O'Hara completes plans to improve streets in the Wills Addition involving:

- (a) 326,030 sq. ft. grading;
 - (b) 143,551 sq. ft. 5-inch concrete pavement;
 - (c) 10,613 ft. 4-in. to 8-in. vitrified clay sewers;
 - (d) 6,500 ft. 4-in. to 10-in. cast iron water pipe.
- 1911 Act. Bond Act 1915. Hearing May 11.

AMADOR COUNTY, Cal.—Basalt Rock Co., Napa, at \$7,881.25 submitted low bid to R. E. Pierce, division engineer, State Highway Commission, Sacramento, to treat with light and heavy fuel oil as a dust palliative, 34.3 miles between Chapmans and Silver Lake. Complete list of bids follow:

Basalt Rock Co., Napa	\$7,881
C. W. Wood, Stockton	9,648
Pacific Tank Lines, Inc.	10,024
Ed. A. Peres, Richmond	10,367

ANAHEIM, Orange Co., Cal.—Until May 12, 8 P. M., bids will be received by Edw. B. Merritt, city clerk, to furnish 1000 barrels of road oil. Specifications on file in office of clerk.

SALINAS, Monterey Co., Cal.—Until May 12, 10 A. M., bids will be received by C. F. Joy, county clerk, for grading portion of the River Road in Supervisor District No. 3, involving:

- (1) 45,000 cu. yds. roadway excavation
 - (2) 40,000 sta. yds. overhaul.
- Specifications obtainable from Howard Cozzens, county surveyor, on deposit of \$10, returnable.

TUOLUMNE COUNTY, Cal.—B. C. Burnett, Turlock, at \$1299.99 awarded contract by State Highway Commission to construct hightight property

and install new property gates in Tuolumne county between 1½ mile west of Keystone and Keystone.

SONORA, Tuolumne Co., Cal.—D. R. Hanify, Jamestown, at \$13,980 awarded contract by county supervisors to improve the Fuller-Longway Road, Blanket Creek Road and Wards Ferry-Alexandria Road, involving:

- (1) 26,817 cu. yds. excavation;
- (2) 255 cu. yds. concrete (in bridges and cattle passes);
- (3) 1402 lin. ft. 12-in. galvanized iron pipe;
- (4) 38 lin. ft. 16-in. do.;
- (5) 28 lin. ft. 18-in. do.;
- (6) 10 lin. ft. 36-in. do.;
- (7) 60 lin. ft. 2-in. galvanized pipe railing.

Complete list of bids follow:

D. R. Hanify, Jamestown	\$13,980
W. C. Colley, Berkeley	16,560
Tiffany & McReynolds	19,233
Harms Bros., Galt	23,698

HAWTHORNE, Nevada—Until May 20, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for treating approximately 83,000 sq. yds. gravel road with asphaltic fuel oil at the naval ammunition depot, Hawthorne, Nev.; deposit \$10 required for plans, obtainable from above.

KERN COUNTY, Cal.—Until May 13, 4 P. M., bids will be received by F. G. Sommer, district engineer, State Highway Commission, Bishop, to treat with heavy fuel oil as a dust palliative, 11.4 miles between Canebreak Creek and Route 23. Specifications obtainable from above.

SAN JOSE, Santa Clara Co., Cal.—Union Paving Co., Call Bldg., S. F., at \$1,948 awarded contract by county supervisors to improve Lincoln Ave. in Supervisor District No. 4. Project involves 15,255 sq. ft. asphaltic concrete pavement. Complete list of bids follow:

Union Paving Co.	\$1,948
San Jose Paving Co.	2,245
A. J. Raichs	2,274

SAN JOSE, Santa Clara Co., Cal.—Granite Const. Co., Watsonville, at \$22,050 awarded contract by county supervisors to improve Church Ave. in Supervisor District No. 1. Project involves 212,280 square feet oil macadam pavement. Complete list of bids follows:

Granite Const. Co.	\$22,050
A. J. Raich, San Jose	23,750
W. A. Donatville, Salinas	26,717

SANTA BARBARA, Cal.—Western Motor Transfer Co., 116 State St., awarded contract by city council at \$2507 to pave Fort La Mar Drive, one block, adjacent to the Vista Mar Monte Hotel, involving: 10,688 sq. ft. 7-5-7-in. concrete pavement, \$235; 396 ft. combined curb and 4-ft. gut-

CONTRACTORS' MACHINE WORKS

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Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;
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Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

57 Zoe St., bet. 3rd and 4th, off Brannan St.
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r, \$1,55; 1528 sq. ft. concrete walk, 20; 1368 sq. ft. rock and oil shoulder, 12.

NAPA, Napa Co., Cal.—City council declares intention (539) to improve 8th l. bet. River St. and Soscol Ave., involving grading, concrete curbs, two-course emulsified asphalt macadam pavement, 40-ft. wide. 1911 Act. Hearing May 11. H. H. Thompson, city clerk. H. Harrold, city engineer.

SACRAMENTO COUNTY, Cal.—Until May 20, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland cement concrete, 7.2 miles between Trighton and Mills.

SANTA BARBARA COUNTY, Cal.—Until May 20, 2 P. M., bids will be received by State Highway Commission to be treated with asphaltic road oil and screenings, 15.5 miles between Suckhorny Creek and the second crossing of the Cuyama river.

YOLO AND COLUSA COUNTIES, Cal.—Until May 20, 2 P. M., bids will be received by State Highway Commission to improve 8.7 miles of highway between Dunigan and 1 mile south of Arbuckle, involving placing 7.7 miles of bituminous treated rock orders.

SAN JOAQUIN COUNTY, Cal.—Until May 20, 2 P. M., bids will be received by State Highway Commission to grade and surface with bituminous treated crushed gravel or stone, 3.5 miles between French Camp and Stockton.

WHITE PINE COUNTY, Nevada.—Until June 10, 2:30 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, for grading, constructing structures and placing surfacing material between Condit Pass and Ely, 17.5 miles in length. Plans obtainable from engineer on deposit of \$15, of which \$10 is returnable. Plans are on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco.

CLARK COUNTY, Nevada.—Until June 10, 2 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, to furnish, apply and mix asphaltic fuel oil with roadway surface between Las Vegas and 10 miles southeast, a distance of 10.18 miles. Plans are on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco.

KERN COUNTY, Cal.—Square Oil Co., 916 Adobe St., Los Angeles, at \$520 awarded contract by State Highway Commission to treat with heavy fuel oil as a dust palliative 31.2 miles between Mojave and the San Bernardino County Line, involving 4350 bbls. oil.

MONTEREY COUNTY, Cal.—Until May 4, 2 P. M., bids will be received by L. H. Gibson, district engineer, State Highway Commission, to treat with heavy fuel oil on each side of existing pavement, 3.5 miles between San Lucas and a point 3.5 miles north. Specifications obtainable from engineer.

CULVER CITY, Los Angeles Co., Cal.—Until 8 P. M., May 25, bids will be received by city council to improve Zania Ave., and other streets in district bounded by Lincoln Blvd. and Francis Ave., and from Venice Blvd. to Washington Blvd., under A. & I. No. 9. Where necessary, jurisdiction has been granted by Los Angeles. The work will involve approximately 900,000 sq. ft. 2-in. granular Warrenite surface on 4-in. asphaltic concrete

base, curb, walk, and a vitrified sewer system. The total cost will be about \$350,000 including \$76,000 for the sewer system. Plans obtainable from Geo. E. Lee, city engineer. Paul Jarrett, city clerk.

- CAKLAND, Cal.**—Until May 7, 12 noon, bids will be received by Frank C. Merritt, city clerk, to improve Hopkins St. bet. High St. and 55th Ave., and portions of High St., Madrone Path, Green Acre Road, Pierson and Simmons Sts., 55th Ave., Camden Ave. 58th Ave., Seminary Ave. and Trenor St., involving:
- (1) 31,616 cu. yds. excavation;
 - (2) 1,496 lin. ft. concrete curb with steel guards;
 - (3) 9,593 lin. ft. concrete curb with guard;
 - (4) 394,815 sq. ft. cement concrete pavement, 7- to 9-in. thick;
 - (5) 48,266 sq. ft. cement sidewalks;
 - (6) 2,728 sq. ft. concrete driveways;
 - (7) 90 lin. ft. 8x24-in. corrugated iron and concrete culvert;
 - (8) 136 lin. ft. 12-in. reinf. concrete pipe conduit;
 - (9) 132 lin. ft. 15-in. do;
 - (10) 144 lin. ft. 12-in. do (extra strength);
 - (11) 43 lin. ft. 15-in. do (extra strength);
 - (12) 1 storm water inlet, 43-in. opening;
 - (13) 7 storm water inlets, Type A;
 - (14) 1 concrete inlet with 34-in. opening;
 - (15) 1 concrete handhole with c. 1. cover;
 - (16) 1 cast iron handhole;
 - (17) 1 manhole;
 - (18) 1 manhole top;
 - (19) 365 lin. ft. 8-in. vit. pipe main sewer;
 - (20) 1962 lin. ft. 5-in. vit. pipe side sewers;
 - (21) 1 8-in. lamphole;
 - (22) 17 12-in. lampholes;
 - (23) 11 wye branches.
- Estimated cost, \$127,000. 1911 Act. City will pay 32 1/2% of the cost from the City Treasury. Certified check 10% payable to city required with bid. Plans on file in office of clerk. W. N. Frickestad, city engineer.

ALAMEDA COUNTY, Cal.—Jones & King, Hayward, at \$34,535 awarded contract by State Highway Commission to grade and pave with Portland cement concrete, 0.5 mile bet. Stanton Ave. and Foothill Blvd.

LOS ANGELES COUNTY, Cal.—W. F. Peck Co., 1120 N. Las Palmas Ave., Los Angeles, at \$422,221 awarded contract by State Highway Commission to grade 7.3 miles in Los Angeles county between Canton Creek and Piru Creek.

SAN FRANCISCO.—Until May 6, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, for permanent paving on Sec. "C" Bayshore Blvd. Estimated cost,

\$27,000. Quantities of materials involved will be published shortly. Spec. obtainable from Bureau of Engineering, 3rd floor, City Hall.

- CAKLAND, Calif.**—Until May 7, 12 noon, bids will be received by Frank C. Merritt, city clerk, to improve portions of Plymouth St., 99th Ave. and Cherry St., involving:
- (1) 4,571 cu. yds. excavation;
 - (2) 2,802 lin. ft. concrete curb;
 - (3) 6,092 sq. ft. concrete gutter;
 - (4) 42,178 sq. ft. penetration macadam pavement;
 - (5) 170 lin. ft. 8x24-in. corr. iron and concrete culvert;
 - (6) 87 lin. ft. 8x29-in. do;
 - (7) 6 handholes;
 - (8) 250 lin. ft. 8-in. vit. pipe sewer;
 - (9) 1 8-in. lamphole;
 - (10) 10 wye branches.
- Imp. Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk. W. N. Frickestad, city engineer.

SAN FRANCISCO.—Fay Imp. Co., Phelan Bldg., at \$3,384.53 awarded contract by Board of Public Works to improve 37th Ave. bet. Vicente and Wawona Sts., and the crossing of 37th Ave. and Wawona. Project involves: 647 lin. ft. unarmored conc. curb, \$52, 3954 sq. ft. 1-course concrete sidewalk, \$67, 3 brick catchbasins, \$80, 106 lin. ft. 10-in. V.C.P. culverts, \$1,20, 40 lin. ft. 6-in. V.C.P. side sewer, \$81, 14,447 sq. ft. asphalt. conc. pave., 2-in. asphalt. conc. wearing surface on 6-in. class F concrete base, \$208.

SAN FRANCISCO.—Fay Imp. Co., Phelan Bldg., at \$11,062.59 awarded contract by Board of Public Works to improve west half of 36th Avenue bet. Vicente St. and Sloat Blvd. Project involves: 1836 lin. ft. unarmored conc. curb, \$52, 12,960 sq. ft. 1-course concrete sidewalks, \$67, 100 lin. ft. 6-in. V.C.P. side sewer, \$81, 2 brick catchbasins, \$80, 107 lin. ft. 10-in. V.C.P. culverts, \$1,20, 35 lin. ft. 15-in. V.C.P. sewer, \$101, 42,428 sq. ft. asphalt. conc. pavement, 2-in. asphalt. conc. wearing surface on 6-in. class F concrete base, \$208.

SAN FRANCISCO.—M. Bertolino, 32 Shotwell St., at \$1,478.75 awarded contract by Board of Public Works to improve Arch St. bet. Sargent and Randolph Sts., and Sargent St. bet. Ralston and Vernon Sts., involving: 175 lin. ft. armored conc. curb, \$140, 105 lin. ft. 6-in. V.C.P. side sewers, \$2,25, 2625 sq. ft. 6-inch class E concrete pavement, \$38.

SACRAMENTO, Cal.—County Engineer Charles Deterding is preparing plans to pave Del Paso Blvd. from Marysville road easterly, involving asphaltic pavement, 20-ft. wide.

DO NOT RISK AN EXPERIMENT

SPECIFY -- USE

Timpie Hydrated Lime

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Ten Years of Uniformly Satisfactory Experience in High

Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

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SAN FRANCISCO.—R. W. Talfer (Union Paving Co.), Call Bldg., at \$14,826.63 awarded contract by Board of Public Works to improve west half of 36th Ave. bet. Judah and Noriega Sts., involving: 2543 lin. ft. unarmored concrete curb, \$40.

15,391 sq. ft. one-course conc. sidewalk, \$12.
3 brick catchbasins, \$100.
105 lin. ft. 10-in. V.C.P. culverts, \$1.50.
35 lin. ft. 15-in. V.C.P. sewers, \$2.50.
35 lin. ft. 18-in. do., \$2.50.
160 lin. ft. 6-inch V.C.P. side sewers, \$75.

55,530 sq. ft. asph. conc. pavement, 2-in. asph. conc. wearing surface on 6-in. class F concrete base, \$20.

SALINAS, Monterey Co., Cal.—Bids will be asked at once by county supervisors, to be opened May 12, for grading the River Road, tract obtainable from Howard Cozzens, county surveyor.

ELKO COUNTY, Nev.—Until May 6 2 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, to reconstruct a portion of the state highway system from 4 miles east of Silver Zone to Wendover 16.86 miles in length, involving grading, structures and gravel surfacing. Plans obtainable from engineer on deposit of \$15, of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco.

SONOMA, Sonoma Co., Cal.—Until May 13, 12 noon, to be opened 8 P. M. bids will be received by H. W. Gottenberg, city clerk, for asphaltic oil surfacing on approximately one mile of streets, involving:

- (a) 60 barrels light oil;
- (b) 20 tons heavy oil;
- (c) 150 tons rock;
- (d) 100 tons screenings.

Specifications on file in office of city clerk.

SAN LUIS OBISPO COUNTY, Cal.—Until May 8, 2 P. M., bids will be received by L. H. Gibson, district engineer, State Highway Commission, Bank of Italy Bldg., San Luis Obispo, for treating with heavy fuel oil as a dust palliative, 6.2 miles between San Simeon and Piedras Blancas Lighthouses. Specifications obtainable from engineer.

OAKLAND, Calif.—Hutchinson Co., 1450 Harrison St., Oakland, at \$4,177 awarded contract by city council to improve portions of 88th Avenue bet. Hillside Street and Olive St., involving grading, curbs and gutters, paving, sewer with appurtenances.

ORANGE COUNTY, Calif.—O. A. Lindberg, 443 N American St., Stockton, at \$245,383 submitted low bid Apr. 29 to State Highway Commission to grade and pave with Portland cement concrete and asphalt concrete, 5.5 miles between San Mateo Creek and Serra. Following is a complete list of bids:

O. A. Lindberg, Stockton.....\$245,383
Jahn & Bressi Const. Co., Los Angeles.....232,101
David H. Ryan, San Diego.....294,083
Southwest Paving Co., L. A.....238,087
Geo. H. Oswald, Los Angeles.....307,999
S. G. Willis & Son, L. A.....309,631
Griffith Co., Los Angeles.....324,244
Gibbons & Reed, Burbank.....323,867
Ed. Johnson & Son, L. A.....339,260
Macco Const. Co., Clearwater.....356,571
Daley Corp., San Diego.....367,192

Bids held under advisement.

EL DORADO COUNTY, Cal.—Finnell Co., Inc., 1630 39th St., Sacramento, at \$52,593 submitted low bid to State Highway Commission April 29 to grade and surface with crusher run

base and untreated crushed gravel or stone, 1.7 miles between Placerville and the Railroad Crossing. Following is a complete list of bids received:

Finnell Co., Inc., Sacramento.....\$52,593
Force Const. Co., Piedmont.....61,786
F. W. Nightbert, Bakersfield.....68,041
Tiffany, McReynolds & Tiffany, San Jose.....74,686

Bids held under advisement.

LASSEN AND MODOC COUNTIES, Cal.—Hemstreet & Bell, Marysville, at \$129,646 submitted low bid April 29 to State Highway Commission to surface with bituminous treated crushed stone or gravel, 24.5 miles between Hillside and Rush Creek. Following is a complete list of bids:

Hemstreet & Bell, Marysville.....\$129,646
Granite Const. Co., Watsonville.....135,834
Hein Bros. Basalt Rock Co., Petaluma.....136,873
A. Teichert & Son, Sacramento.....138,118
F. W. Nightbert, Bakersfield.....148,796

Bids held under advisement.

MODOC COUNTY, Calif.—Hartman Const. Co., Bakersfield, at \$134,875 submitted low bid April 29 to State Highway Commission to surface with bituminous treated crushed stone or gravel surfacing, 23.8 miles bet. Rush Creek and Hot Creek. Following is a complete list of bids:

Hartman Const. Co., Bakersfield.....\$134,875
Granite Const. Co., Watsonville.....135,600
Hemstreet & Bell, Marysville.....136,415
U. B. Lee, San Leandro.....142,435
A. Teichert & Son, Sacramento.....149,310
F. W. Nightbert, Bakersfield.....147,200
Fennell Co., Inc., Sacramento.....157,200

Bids held under advisement.

ELKO COUNTY, Nev.—Until May 13, 3 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, for furnishing asphaltic fuel oil, applying and mixing it with a crushed rock or crushed gravel surface from Elko to Deeth, a distance of 31.44 miles.

Specifications obtainable from engineer on deposit of \$15, of which \$10 is returnable. Plans on file in office of Bureau of Public Roads, 461 Market St., San Francisco.

SAN FRANCISCO.—Bureau of Engineering, Department of Public Works, completes specifications to improve Grafton and Garfield Aves., between Orizaba and Head Sts.; estimated cost \$13,000. Project involves:

- (1) 5,956 cu. yds. excavation;
- (2) 300 cu. yds. embankment;
- (3) 979 lin. ft. unarmored conc. curb;
- (4) 8,150 sq. ft. 1-course conc. sidewalk;
- (5) 4 brick catchbasins;
- (6) 90 lin. ft. 10-in. V.C.P.;
- (7) 295 lin. ft. 8-in. do.;
- (8) 236 lin. ft. 12-in. do.;
- (9) 4 brick manholes;
- (10) 16 12x6-in. Y or T branches;
- (11) 12 8x6-in. do.;
- (12) 535 lin. ft. 6-in. V.C.P. side sewers;
- (13) 2,650 sq. ft. asph. conc. pavement, 2-inch surface, 6-inch class F concrete base.

DOUGLAS COUNTY, Nevada.—Until May 21, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to furnish and apply bituminous binder and processing the existing crushed rock surfacing on Sections A and B of Route 3, Glenbrook National Forest Highway in Tahoe National Forest, 3,087 miles in length, involving:

- (1) 265 tons furnish and apply bituminous binder;
- (2) 3,085 miles mixing bituminous treated crushed rock surf.;
- (3) 3,085 miles rolling.

Specifications obtainable from engineer.

SAN FRANCISCO.—Until May 2 3:30 P. M., bids will be received by J. Hester, secretary, Board of Public Works, for permanent paving on S. "C." Bayshore Blvd. Estimated cost \$27,000. Project involves:

- (1) 470 lin. ft. 8-in. V.C.P. sewer;
- (2) 100 lin. ft. 6-in. do.;
- (3) 19 8x6-in. wyre branches;
- (4) 2 brick manholes;
- (5) 1500 lin. ft. armored conc. curb
- (6) 200 lin. ft. 2x10-in. redwood headers;
- (7) 84,000 sq. ft. asphalt conc. pave surface, 1 1/2-in. binder course
- (8) 2 brick manholes; and 8-in. class E conc. base
- (9) 17,000 sq. ft. 1-course conc. sidewalk;
- (10) 1,000 sq. ft. 4-in. waterbour macadam sidewalks;
- (11) metal lane markers, Type 2.

Certified check 10% payable to Cler of the Board of Supervisors require with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

ELKO COUNTY, Nev.—Until May 13, 3:30 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, for grading, construct structures and placing surfacing material from Thousand Springs Creek to Little Salmon River, a distance of 23.36 miles.

Specifications obtainable from engineer on deposit of \$15, of which \$10 is returnable. Plans on file in office of Bureau of Public Roads, 461 Market St., San Francisco.

WHITE PINE CO., Nev.—Until May 13, 2:30 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, for furnishing asphaltic fuel oil, applying and mixing it with a crushed rock or crushed gravel surface on a portion of the state highway from Robinson Summit to Key-stone.

Specifications obtainable from engineer on deposit of \$15, of which \$10 is returnable. Plans on file in office of Bureau of Public Roads, 461 Market St., San Francisco.

ORMSBY & LYON COUNTIES, Nevada.—Until May 13, 2 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, for furnishing asphaltic oil, applying and mixing it with a crushed rock or crushed gravel surface on 7.68 miles from Carson City to two miles east of Mound House. Specifications obtainable from engineer on deposit of \$15, of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco.

MONO COUNTY, Cal.—Until May 21, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for applying oil and processing the existing crushed rock surfacing on sections of the Topaz National Forest Highway in portions of Mono County, Calif., and Douglas County, Nevada, all in the Mono National Forest, 14,800 miles in length, involving:

- (1) 278,000 gals. furnish and apply fuel oil;
- (2) 14,800 miles mixing oil treated crushed rock, surfacing;
- (3) 163 tons furnish and apply asphaltic oil;
- (4) 1,250 cu. yds. placing screenings
- (5) 14,800 miles rolling.

Specifications obtainable from district engineer.

ANTIOCH, Contra Costa Co., Cal.—City Engineer E. L. O'Hara instructed to prepare plans to improve Empire Avenue for its full length, involving grading, pavement, curbs, etc..

SACRAMENTO, Cal.—County superiors have authorized formation of a road district to finance a road from Sacramento to the new county bridge over the American river. The road to be known as Brannon Blvd. and will be financed by the property owners. Rights of way have been secured. Has. Detering is county engineer.

TRINITY COUNTY, Calif.—H. H. Coomer, Mills Bldg., San Francisco, at 1,914 submitted low bid April 29 to take Highway Commission to construct approaches to the Brown's Creek Bridge and Trinity River Bridge involving 9.5 mile to be graded and surfaced with untreated crushed stone gravel. Following is a complete list of bids received:

J. H. Boomer, San Francisco.....	\$19,914
Young, Yreka.....	21,226
Has. Detering, Napa.....	22,052

Bids held under advertisement.

EL DORADO COUNTY, Calif.—Tiffany, McReynolds & Tiffany, at 12,30.50 submitted low bid April 27 to

H. Whitmore, district engineer, take Highway Commission, Sacramento, to treat with light fuel oil as dust palliative, 54.6 miles between diversion and the Nevada State Line rd between Alpine Junction and a point 5.2 miles south and between layers and Emerald Bay. Complete list of bids follows:

- 1) Bet. Riverton and Nevada State Line, involving 4,140 barrels;
- 2) Bet. Alpine Junction and 5.2 miles south, involving 550 barrels.

- 3) Total for both units.
- | | | |
|------------------------------------|-------------|------------------------------|
| Tiffany, McReynolds & Tiffany, (1) | 2,76 | (2) \$2.75; (3) \$12,689.50. |
| C. W. Wood, Stockton (1) | 2.75; (2) | 3.12,897.50. |
| Basalt Rock Co., Napa (1) | \$2.80; (2) | 2.90; (3) \$13,187.00. |

Pacific Tank Lines, Inc., Los Angeles (1) \$2.91; (2) \$2.91; (3) \$13,647.90.

SAN JOSE, Santa Clara Co., Cal.—San Jose Paving Co., San Carlos and Dupont Sts., at \$11,485 awarded contract by county supervisors to improve Pearl Avenue in Supervisor District No. 5. Project involves 294,875 sq. ft. oil macadam pavement. Complete list of bids follows:

San Jose Paving Co.....	\$11,485
A. J. Ralsch.....	11,936
Granite Const. Co.....	13,840
W. A. Dontanville.....	14,262

Demand for a thorough investigation of the affairs of the Oakland City Port Commission is made by George Wilhelm, city commissioner.

The city council has agreed to meet in executive session tomorrow with the port commission to discuss the situation.

In a statement to the council Wilhelm declared that ever since he has been in the position of commissioner of public works, charges have reached him tending to disparage the operation of the port.

"If these charges are untrue," he said, "the work of the port commission is seriously hampered. If true, the public should be acquainted with the facts."

The commissioner listed 14 charges against the port commission, which included inefficiency of executives, poor management, evasions of civil service, discrimination against Oakland citizens as employees, favoritism in granting leases, wastage of public money and excessive salaries for executives.

Wilhelm suggested that the council name 10 persons of outstanding integrity, which group would appoint three experts to make a thorough investigation.

STEEL INSTITUTE INAUGURATES WIND STRESS RESEARCH ON EMPIRE STATE BUILDING IN NEW YORK CITY

Despite the fact that the steel frame is more permanently elastic than rubber, the engineering profession is called upon to design tall buildings with a rigidity sufficient to withstand any storm or stress. The American Institute of Steel Construction has inaugurated a wind stress research on the Empire State Building which will afford some actual performance data regarding the effects of wind on tall buildings. These studies are expected to prove whether or not tall structures of this type can be so designed and constructed that the amount of the sway under the most adverse weather conditions will not make them uncomfortably habitable.

It would take a force of over four and a quarter millions of pounds of pressure to overturn this, the tallest structure ever erected in the history of man. That means in practice that it would not only take more than the severest storm ever recorded in this latitude, but a pressure greater than that from any recorded earthquake, to damage this building.

Building codes usually require strength of frame far in excess of any possible contingency, and inasmuch as no practical data has ever been gathered in regard to the performance of tall buildings against winds, these investigations are now being made for the American Institute of Steel Construction. Mr. Aubrey Weymouth, Chief Engineer of Post & McCord, is chairman of the committee acting for the Institute. Mr. H. G. Balcom, Consulting Engineer, who designed the building and who will have active charge of the recording instruments installed on the building, is a member of the committee and will have associated with him Mr. Lee H. Miller, Chief Engineer of the American Institute of Steel Construction; Mr. D. C. Coyle, Consulting Engineer; Prof. J. C. Rathbun, Professor of Structural Engineering at the College of the City of New York, and Prof. Clyde T. Morris, Professor of Civil Engineering at Ohio State University.

Explaining the scope of the investigation, Mr. Weymouth said: "A series of tubes have been installed from the outside walls at three different floor levels, thirty-sixth, fifty-fifth and seventy-fifth, and on all four faces of the building. By pressure-recording devices these will give some idea of the wind pressure and suction on the building while at the same time we may record the velocity and direction of the wind. These tubes are located in such a manner that the pressures can be measured on the windward side of the building, as can also the pull from the partial vacuum on the leeward side. The Empire State Building is symmetrical in design and very few of the columns were offset or carried by girders, therefore it is an almost ideal structure for the purposes of this research. This regularity has made it possible to figure the floors as rigid horizontal plates which distribute the wind stresses to the various bents in the ratio of their resistance.

Extensometers have also been attached to the four corners of various columns and to portal beams, which read to 1/10,000 of an inch on a gauge length of about 50 inches. We anticipate that this will make possible the reading of bending and overturning stresses in the columns and of bending stresses in the portal girders. Reading will be taken simultaneously by means of cameras electrically operated and controlled. In addition, the horizontal deflection of the top of

the building during heavy winds will be measured.

"These stress-recording instruments have been placed in the twenty-fourth story, which is immediately below the base of the tower where the main tower columns are accessible on their four sides. Under the Building Code of the City of New York, the Empire State Building was designed to withstand a wind pressure of 20 pounds per square foot above the sixth-floor level. It is not required to figure any wind pressure below the 100-foot level, practically at the sixth floor. In addition to this, a horizontal force of 50 tons, applied at the top of the mooring mast, was used as the probable pull from a dirigible. Under the requirements of the Code the building was designed to withstand in all a wind pressure of 4,340,000 pounds, of which the wind pressure on the mooring mast and the pull from a dirigible was calculated at 215,000 pounds, or seven per cent of the total.

"An instrument especially designed and built for the U. S. Geodetic Survey, is used for measuring sways of the building. This is known as a vertical collimator. It is proposed to set this instrument at the foot of the fire-stair door at each floor, and aim it on an illuminated target at the eighty-fifth floor. This great vertical length of sight will provide an excellent opportunity for observing the sway of the structure in any direction. Any sway, even to one-quarter of an inch, may be accurately observed through this instrument.

"Calculations of wind pressure have in the past been entirely empirical. Until the American Institute of Steel Construction authorized a series of researches no effort had been made to calculate the actual pressure on tall buildings in the wind. In 1928, when the American Insurance Union Building was erected in Columbus, Ohio, the Institute first authorized some investigations to be made. These were placed under the direction of Professor Morris of the Ohio State University. This particular building was selected for the tests because it was fairly symmetrical in design, and it stood out above all surrounding buildings and was exposed to a clear sweep of the winds.

"The recording anemometer on the American Insurance Union Building has been in constant operation and complete records have been kept of the wind velocity. The records for the windiest day of each week have been plotted and compared with those of the U. S. Weather Bureau Station which is located at a lower level on a neighboring building. The sway-measuring instruments, which were constructed last year, have been installed in the attic room above the observation gallery and are in readiness for use at any time. Records have been taken with quite satisfactory results.

"Professor Morris found that this building, 48 stories high, swayed less than one-tenth of an inch in a 30-mile wind. It is obvious from the results so far obtained that the records have not afforded adequate data for the design of buildings against wind pressure. We are hopeful that much more experience will be attained from the instruments installed in the Empire State Building. In addition to all the other calculations made here we expect to measure the horizontal deflection on the top of the building during heavy winds. It will be of great assistance to the engineering profession if these experiments show definite results."

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
624	Anderson	Owner	3000
625	Laguens	Larsen	5000
626	Isaacson	Dobkowitz	6000
627	Bermel	Demarais	1170
628	Haley	Owner	1000
629	Rogers	Owner	4500
630	Christensen	Owner	12000
631	Spivock	Owner	6000
632	Mahoney	Owner	1200
633	Johnson	Owner	3000
634	McCarthy	Owner	4000
635	St Francis	Sartorio	2500
636	Moran	Owner	2000
637	Malerbl	Sharman	3800
638	Rhodes	Johnson	6000
639	McAfee	Owner	14000
640	Sandeen	Owner	1450
641	Cogorno	Castle	3000
642	Oyen	Owner	20000
643	Marian	Owner	19800
644	Bothin	Siegrist	4600
645	Springer	Castle	3000
646	Godeau	Owner	7000
647	Vukicevich	Owner	3000
648	Doelger	Owner	4000
649	Johnson	Owner	3500
650	Guaragalla	Robinson	25000
651	Perley	Coturn	1600

DWELLING
(624) W 16th AVE. 325 S Quintara; one-story and basement frame dwelling.
Owner—B. Anderson and W. Sanders, 1177 De Haro St.
Architect—Not Given. \$3000

DWELLING
(625) N DARIEN WAY 421 E Westgate Drive; one-story and basement frame dwelling.
Owner—Laguens & Larsen, 369 Ashton Avenue.
Architect—Not Given.
Contractor—S. Larsen, 365 Ashton Avenue. \$5000

DWELLINGS
(626) W 16th AVE. 175 N Rivera; 2 one-story and basement frame dwellings.
Owner—Fred Isaacson, 643 Joost Ave.
Architect—Not Given.
Contractor—B. Dobkowitz, 425 Montecrey Blvd. each \$3000

ALTERATIONS
(627) E COLE ST. 100 S Oak; new roof, alter front.
Owner—C. R. Bermel, 436 Cole St.
Architect—Not Given.
Contractor—B. W. Demarais, 732 Page St. \$1,170

STORE
(628) W SAN BRUNO AVE. 210 S Oakdale; one-story frame store.
Owner—C. R. Haley, 35 26th Ave.
Plans by Owner. \$1000

DWELLING
(629) S SANTIAGO 63 W 14th Ave.; two-story and basement frame dwelling.
Owner—J. W. Rogers, 1695 21st Ave.
Architect—R. R. Irvine, New Call Bldg. \$4500

DWELLINGS
(630) E 27th AVE. 125 S Kirkham; three 1-story and basement frame dwellings.

Owner—Herman Christensen, 1422 27th Avenue.
Architect—Not Given. each \$4000

DWELLINGS
(631) W 21st AVE. 78 S "N" ST.; two 1-story and basement frame dwellings.
Owner—W. Spivock, 523 Market St.
Architect—Irvine & Etbets, Call Bldg. each \$3000

ALTERATIONS
(632) S MCKINNON AVE. 100 E Newhall St.; raise building and alter front.
Owner—Mr. and Mrs. J. Mahoney, 1649 McKinnon Avenue.
Architect—Not Given. \$1200

DWELLING
(633) S RIVERA 71 E 21st Avenue; one-story and basement frame dwelling.
Owner—A. C. Johnson, 1835 8th Ave.
Architect—Not Given. \$3000

DWELLING
(634) E 28th AVE. 76 S Ulloa; one-story and basement frame dwelling.
Owner—J. E. McCarthy, 1342 Funston Avenue.
Architect—Not Given. \$4000

CONCRETE FLOOR
(635) 701 SEVENTH AVE.; concrete floor in stable.
Owner—St. Francis Riding Club, 701 7th Ave.
Architect—Not Given.
Contractor—L. Sartorio, 1817 Filbert Street. \$2500

ALTERATIONS
(636) W PIERCE ST. 75 S Chestnut St.; enlarge house, adding three rooms and garage.
Owner—John Moran, 197 Alexander Ave., Daly City.
Architect—Not Given. \$2000

DWELLING
(637) E LUCY 125 S Thornton; one-story and basement frame dwelling.
Owner—P. Malerbl, care builder.
Plans by Mr. Sharman.
Contractor—T. R. Sharman, 1514 Irving Street. \$3500

DWELLING
(638) NE 39th AVE. and Cabrillo St.; one-story and basement frame dwelling.
Owner—F. Rhodes, 267 11th Avenue.
Plans by D. E. Jackle, 744 Call Bldg.

Contractor—A. R. Johnson, 3901 Mission Street. \$600

DWELLINGS
(639) SE ELLINGTON 96 SW O tawa; four 1-story and basement frame dwellings.
Owner—F. L. McAfee, 771 Hanover.
Architect—Not Given. each \$350

DWELLING
(640) NE TINGLEY 315 SE San Jose Ave. One-story and basement frame dwelling.
Owner—R. Sandeen, 1527-A Valencia St., San Francisco.
Plans by Owner. \$140

DWELLING
(641) N CONCORD 200 E Morse. One-story and basement frame dwelling.
Owner—J. Cogorno, 127 Concord St., San Francisco.
Plans by Castle Bldg. Co., 830 Market St., San Francisco.
Contractor—Castle Bldg. Co., \$300

APARTMENTS
(642) E TWENTY-FIFTH AVE 99 1 Fulton St. Three-story and basement frame (12) apartments.
Owner—O. M. Oyen, 50 Castaneda St., San Francisco.
Architect—H. C. Baumann, 251 Kearny St., San Francisco. \$20,000

DWELLINGS
(643) W THIRTY-THIRD AVE 100 1 Kirkham. Four one-story and basement frame dwellings.
Owner—Marian Realty Co., 110 Sutte St., San Francisco.
Plans by Owner. \$4950 each

ALTERATIONS
(644) NO. 604 MISSION ST. Alterations to office and front of building.
Owner—Bothin Real Estate Co., 60 Mission St., San Francisco.
Architect—V. D. Linden, 604 Mission St., San Francisco.
Contractor—F. R. Siegrist, 604 Mission St., San Francisco. \$4600

DWELLING
(645) S ALLISON 200 E Morse. One-story and basement frame dwelling
Owner—W. Springer, 245 Allison St., San Francisco.
Architect—Not Given.
Contractor—Castle Bldg. Co., 830 Market St., San Francisco. \$3000

DWELLINGS
(646) W 28th AVE. 150 N Santiago; two 1-story and basement frame dwellings.
Owner—J. S. Godeau, 41 Van Ness Avenue.
Plans by Owner. each \$3500

DWELLING
(647) E 32nd AVE. 200 N Ulloa; one-story and basement frame dwelling.
Owner—P. E. Vukicevich, 1442 Taraval St.
Engineer—J. G. Little. \$3000

DWELLING
(648) S KIRKHAM 95 E 19th Ave.; one-story and basement frame dwelling.
Owner—H. Doelger, 300 Judah St.
Plans by Owner. \$4000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

DWELLING
(649) W 33rd AVE. 175 S Santiago;
one-story and basement frame
dwelling..... \$3500
Owner—N. E. Johnson, 666 Mission St.
Architect—Not Given.

APARTMENTS
(650) N GREENWICH 106 W Steiner-
er, 2-story and basement frame
(12) apartments.
Owner—J. Guaragala, 3120 Scott St.
Architect—R. R. Irvine, 747 Call Bldg.
Contractor—Robinson & Johnston, 831
31st Ave. \$25,000

ALTERATIONS
(651) 164 EUREKA ST.; alterations
to dwelling.
Owner—Mr. Perley, 2048 Market St.
Architect—Not Given.
Contractor—I. W. Cohn, Jr., 2048
Market St. \$1000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No. Owner	Contractor Amt.
74 Pac Freight	Bienfield 4800

FREIGHT SHED.
(74) E STEUART ST. bet. Howard
and Folsom Sts., 343 Steuart; all
work on one-story steel frame and
corrugated iron freight shed.
Owner—Pacific Freight Lines Co., 187
Steuart St.
Architect—Not Given.
Contractor—D. L. Bienfield, 334 30th
Avenue.

Filed April 24, '31. Dated April 16, '31.
Frame erected.....\$2403
Completed.....2403
TOTAL COST, \$4806
Bond, \$4806. Sureties, Maryland Cas-
ualty Co. Forfeit, \$25. Limit, 50 days.
Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

April 24, 1931—E THIRTY-EIGHTH
AVE 100 S Judah S 150x E 110.
William F Altvater to whom it
may concern.....April 22, 1931

April 24, 1931—S ULLOA 107-6 E
15th AVE. E25xS 100. A Sergio to
whom it may concern.....

April 24, 1931—E SHRADER 32 N
Frederick N 33x E 94. H K
Chidress to whom it may concern.....
April 24, 1931

April 24, 1931—NW DWIGHT 120
SW San Bruno Ave SW 29 x NW
100. N J Hansen to Kafika and
Rasmussen.....April 22, 1931

April 23, 1931—W 30th AVE 175 S
Rivera S 25 x W 120. D S Kavan-
agh to whom it may concern.....

April 23, 1931—FELL and Baker Sts.
S P Co's General Hospital; (in-
stalling electric fixtures). Southern
Pacific Co to Dowd-Seid Electric
Co.....April 20, 1931

April 23, 1931—W 25th AVE 150 N
Kirkham St 25x120. John McDon-
ough to whom it may concern.....
April 18, 1931

April 22, 1931—LOT 10 BLK 137 Uni-
versity Md. L B Ferlip to whom
it may concern.....April 22, 1931

April 22, 1931—N CHESTNUT ST
W of Franklin, 1420 Chestnut St.
D Costantino to L Franceschi.....
April 22, 1931

April 22, 1931—W YORK 30 S 25th
30x70. Vincent P Laguens to whom
it may concern.....April 22, 1931

April 22, 1931—NW PINEHURST
about 232 NE Kenwood Way lot 6
bik 3271, map Mt Davidson Manor.
S Larsen and Vincent P Laguens
to whom it may concern.....April 20, 1931

April 23, 1931—LOTS 23, 24, 25, 26,
27 and 28 BLK 2955A map Sut No
6, Miraloma Park. Meyer Bros to
whom it may concern.....April 23, 1931

April 23, '31—SEVENTH and Chan-
nel Sts. Southern Pacific Co to
whom it may concern.....April 20, 1931

April 23, 1931—BERNAL. Southern
Pacific Co to whom it may concern.....
April 23, 1931

April 27, 1931—W SAN CARLOS
160 N 18th N 25xW 80. J and A
Howard to whom it may concern.....
April 27, 1931

April 27, 1931—LOT 68 Map Spring
Valley Hd. Andrew and Jennie
Hoem to whom it may concern.....
April 27, 1931

April 27, 1931—LOT 12 BLK 10, Map
Lakeview Ptn Rancho San Miguel.
Aerts M Doe to whom it may
concern.....

April 27, 1931—E BAKER 50 N Lom-
bard 25x57-6. S Steinauer to
whom it may concern.....April 27, 1931

April 27, 1931—LOT 5 BLK 4349,
Assessor's Block Book. H H
Eaton to Sibley Grading & Earth-
ing Co.....April 17, 1931

37-6 N 4-8 1/2 W 137-6 S 142-2 1/2.
Jas E Lennon Lime & Cement Co
vs H C Fendleton, V L Fozf, H F
Marsh, E Walters, J A Coons, M
A Heider, M E Morgan, M L
Thomas, F B Christensen, G H
Coons, L H Dennis, A C Walters, A
L Marsh, American Trust Co and
Est of Mary M Bradbury.....\$199.37

RELEASE OF LIENS

San Francisco County

Recorded	Amount
March 18, 1931—SV GREEN AND Leavenworth W 60xS 9 1/2 50 V B 269. A J Ruhlman & Co; Chris Berg; Art Tile & Mantel Co; W P Fuller & Co; Drenskie Inv Co (fmlly United States Metal Pro- ducts Co); L H Nishkian; D Zelin- sky & Sons, Inc; Carjolee Wall Paper Co., Inc; Andy Harper; E. M Handley; Fred D Wiegman (as Wilson Electric Co); D N & E Waiter & Co; John J Delucchi; Walworth California Co; Max W Mindner; W S Wettenhall; Sudd- en Lumber Co; Milton J White and Emil E Gloor (as White & Gloor); George Frankel; V Fasio (as Mission Concrete Co); Judson Pacific Co; National Lighting Fix- ture & Supply Co, Inc; James T Conway and Harry M Seely (as Western Furnace & Corncie Co); Royal Floor Co, Inc; Otis Elevator Co.; Albastross Steel Equipment Co; The North Beach Auto Haul- ing Co; Folsom Street Iron Works, Inc to Consolidated Properties, Ltd, Bellaire Bldg. Ltd, Title Ins & Guarantee Co as trustees, The Lawbeck Corp of California.....	
April 25, 1931—S STUTTELL 37-6 E Divisadero E 26-7 1/2 x S 100. C H Clayton to Herbert Baird and Fred Wiseman.....\$38.50	
April 23, 1931—W 32nd AVE 425 S Rivera S 25 x W 120. Atlas Heat- ing & Ventilating Co, Ltd to D S Kavanaugh.....	

BUILDING PERMITS

ALAMEDA COUNTY

No. Owner	Contractor Amt.
477 Spinney	Johnson 3250
478 San Jose	De Velbiss 1500
479 Clarke	Digne 1000
480 Stevens	Dolan 7000
481 Kaiser	Owner 8000
482 Smith	Owner 2000
483 Treely	Oman 1000
484 Reld	Owner 1000
485 Thompson	Reese 1440
486 Ness	Ness 2500
487 Pleitner	Watson 3500
488 Raffetto	Owner 2500
489 Sigwald	Owner 11000
490 Pollard	Owner 3000
491 MacGregor	Owner 3400
492 Annis	Owner 3000
493 Rhonemus	Kraus 4050
494 Stokes	Owner 4000
495 MacGregor	Owner 3200
496 E & F	Carlson 2500
497 Morgensen	Owner 6000
498 Warn	Owner 3400
499 Semanski	Williams 3000
500 Alameda	Thorp 1245
501 Anderson	Owner 1400
502 Shirley	Rose 1000
503 Levo	Justice 4500
504 McKie	Owner 4000
505 Weinstein	Jacks 28000
506 Oakland	Littlefield 4075
507 Van Ness	Owner 2500
508 Hufschmidt	Williamson 5160
509 Moresi	Ungaretti 3000
510 Bank of Omer.	Owner 2000
511 Clawson	Owner 1600
512 Stone	Applebe 4000
508 Henningsen	Flegg 5300
513 Vale	Owner 3650
514 Schandel	Owner 4000

LIENS FILED

San Francisco County

Recorded	Accepted
April 25, 1931—S CHESTNUT ST 137-6 E Fillmore E 55 x S 137-6. J Weeks vs J E and A Bacigalu- pi and C R Jeddica.....\$144	
April 24, 1931—S CHESTNUT ST 137-6 E Fillmore E 55xS 137-6. E Sugerman vs J E and A Bacig- alupi.....\$412.35	
April 24, 1931—S CHESTNUT ST E Fillmore E 55xS 137-6. Felix Gross Co vs J E and A Bacigalupi and C R Jeddica.....\$500	
April 23, 1931—N SUTTER 165-10 W Hyde W 56-8 x N 137-6. J Worm- ser vs L and M Blum or Blumstet- er.....\$29.37	
April 23, 1931—S CHESTNUT 137-6 E E Fillmore E 55 x S 137-6. Glos Electric Co vs J E and A Baciga- lupi and C R Jeddica.....\$413.19	
April 22, 1931—W FAXON 235 South Grafton S 25 x W 112-6 Lot 504 bik 21 Lakeview. F Hayes and F P Carlick vs H A Dilks.....\$106	
April 25, 1931—S CHESTNUT ST 137-6 E Fillmore E 55 x S 137-6. Tyre Glass Co vs J E Bacigalupi. .....\$356.65	
April 28, 1931—NE VAN NESS AVE and California St E 100 N 137-6 E	

515 Tollefsen Owner 2850
 516 Nystrom Haulman 5000
 517 Snyder Pickrell 2000
 518 Crocheron Courtright 12000

RESIDENCE
 (477) NO. 449 SPRUCE ST., BERKELEY. One-story five-room 1-family frame residence.

Owner—A. H. Spiney.
 Architect—D. C. McKinney, 5829 Marshal St., Oakland.
 Contractor—Hans Johnson. \$2250

REPAIRS
 (478) NO. 2217 SANTA RITA AVE., OAKLAND. Fire repairs.
 Owner—San Jose Pacific Building and Loan Assn., 16th and San Pablo Ave., Oakland.
 Architect—Not Given.
 Contractor—C. D. De Velbiss, 354 Hobart St., Oakland. \$1500

ADDITION
 (479) NO. 3218 VALE AVE., OAKLAND. Addition.
 Owner—H. P. Clarke, 3218 Vale Ave., Oakland.
 Architect—Not Given.
 Contractor—Dugan & Elbin, 5190 Bond St., Oakland. \$1000

DWELLING
 (480) S SUNNYHILLS ROAD 250 E Hillwood Place, OAKLAND. Two-story 7-room dwelling.
 Owner—H. Stevens, 2320 Lakeshore Ave., Oakland.
 Architect—Not Given.
 Contractor—Leo J. Dolan, 316 17th St., Oakland. \$7000

BUNKERS
 (481) SW GRACE AND LOWELL STS., OAKLAND. Steel bunkers.
 Owner—Kaiser Paving Co., 1522 Latham Square Bldg., Oakland.
 Architect—Not Given. \$8000

ALTERATIONS
 (482) FOOT OF EIGHTEENTH AVE. OAKLAND. Alterations.
 Owner—Smith Lumber Co., Premises.
 Architect—Not Given. \$2000

(483) NO. 1260 ALLSTON WAY, BERKELEY. Alterations.
 Owner—V. E. Treely, 4217 La Cresta St., Berkeley.
 Architect—Not Given.
 Contractor—H. Oman, 1802 Allston Way, Berkeley. \$1000

DWELLING
 (484) W 105th AVE. 3000 S Edes Ave. OAKLAND; one-story three-room dwelling.
 Owner and Builder—L. E. Reid, 305 105th Ave., Oakland. \$1000
 Architect—Not Given.

ADDITION
 (485) 3018 RAWSON ST. OAKLAND; addition.
 Owner—C. E. Thompson, 3018 Rawson St., Oakland.
 Architect—Not Given.
 Contractor—T. O. Reese, 2557 63rd Ave., Oakland. \$1440

DWELLING
 (486) E FORESTHILL AVE., 600 N Whittle Ave., OAKLAND; 1-story 5-room dwelling.
 Owner—Ole Ness, 872 Barbara Road, Oakland.
 Architect—Not Given.
 Contractor—Job Hess, 3990 Foresthill Ave., Oakland. \$2500

DWELLING
 (487) N WISCONSIN ST., 93 E Maple Ave., OAKLAND; one-story six-room dwelling.
 Owner—H. A. Fleitner, 1301 Fruitvale Ave., Oakland.
 Architect—Not Given.
 Contractor—Wm. Watson, 4750 Meldon Ave., Oakland. \$3500

STORE
 (488) N HOPKINS ST. 40 E Loma Vista, OAKLAND; one-story store.
 Owner and Builder—M. Raffetto, 3712 Hopkins St., Oakland.
 Architect—Not Given. \$2800

DWELLING
 (489) 560 BLAIR, PIEDMONT; two-story 7-room frame and stucco residence and garage.
 Owner and Builder—Seward Brothers, 916 Alma Ave., Oakland.
 Architect—Ray Keefer, 3281 Lakeshore Ave., Oakland. \$11,000

DWELLING
 (490) 604 SANTA FE AVE., ALBANY; five-room dwelling.
 Owner and Builder—A. J. Pollard, 77 Plaza Drive, Berkeley.
 Architect—Not Given. \$2000

DWELLING
 (491) 1265 PORTLAND AVE., ALBANY; six-story dwelling.
 Owner and Builder—C. M. MacGregor, 470 13th St., Oakland.
 Architect—Not Given. \$3400

DWELLING
 (492) 842 MASONIC AVE., ALBANY; six-room dwelling.
 Owner and Builder—C. H. Annis, 2511 Derby St., Berkeley.
 Architect—Not Given. \$3600

DWELLING
 (493) 1003 MASONIC AVE., ALBANY; five-room dwelling.
 Owner—A. W. Rhonemus, 1258 Marin Ave., Albany.
 Architect—Not Given. \$4650
 Contractor—W. J. Kraus, 1310 Marin Ave., Albany.

DWELLING
 (494) 621 CARMEL AVE., ALBANY; six-room dwelling.
 Owner and Builder—F. A. Stoakes, 325 Berkeley Park Blvd., Berkeley.
 Architect—Not Given. \$4600

DWELLING
 (495) 1261 PORTLAND Avenue. ALBANY; six-room dwelling.
 Owner and Builder—C. M. MacGregor, 470 13th St., Oakland.
 Architect—Not Given. \$3200

DWELLING
 (496) 941 MADISON ST., ALBANY; five-room residence.
 Owner—E. & F. Builders, 538 Talbot Ave., Albany.
 Architect—Not Given.
 Contractor—G. E. Carlson, 917 Madison St., Albany. \$2500

DWELLING
 (497) 5920 BUENA VISTA AVENUE, OAKLAND; two-story six-room dwelling.
 Owner and Builder—Morgensen Bros., 3664 Broadway, Oakland.
 Architect—Not Given. \$6000

DWELLING
 (498) S HARMON ST. 250 E Seminary Ave., OAKLAND; one-story 5-room dwelling and 1-story garage.
 Owner and Builder—Warr Bros., 419 E Merle Court, San Leandro.
 Architect—Not Given. \$3400

ADDITION
 (499) 808-810 E 24th ST., OAKLAND; addition to store.
 Owner—J. Shemanski, care Eastern Outfitting Co.
 Contractor—George T. Williams, 4432 Moraga Ave., Oakland. \$3000

REPAIRS
 (500) CLINTON AVE AND WILLOW ST., ALAMEDA. Repair fire damage.
 Owner—Alameda Sanitorium, Clinton Ave. and Willow St., Alameda.
 Architect—Not Given.

Contractor—V. E. Therp, 1717 Alameda Ave., Alameda. \$1248

DWELLING
 (501) NO. 1635 PEARL ST., ALAMEDA. One-story 6-room frame and stucco dwelling.
 Owner—Walter H. Anderson, 1014 Doris Court, Alameda.
 Architect—Not Given. \$4000

REPAIRS
 (502) NO. 1827 NASON ST., ALAMEDA. Repair fire damage.
 Owner—Ruth Ehrlich, 1827 Nason St., Alameda.
 Architect—Not Given.
 Contractor—A. H. Rose, 478 25th St., Oakland. \$1000

DWELLING
 (503) NO. 978 PEARL ST., ALAMEDA. Two-story 6-room frame and stucco dwelling.
 Owner—O. C. Levo, 2711 Santa Clara Ave., Alameda.
 Architect—Not Given.
 Contractor—N. F. Justice, 973 Pearl St., Alameda. \$4500

DWELLING
 (504) S 59th ST. 540 E San Pablo Ave., OAKLAND; one-story five-room dwelling.
 Owner and Builder—John McKie, 1115 Stanford Ave., Oakland.
 Architect—Not Given. \$4000

STORES
 (505) W BROADWAY 27 S 19th St., OAKLAND; one-story concrete stores.
 Owner—Isidor Weinstein, 1041 Market St., San Francisco.
 Architect—Wm. Knowles, 1214 Webster St., Oakland.
 Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco. \$28,000

WAREHOUSE
 (506) FOOT OF WEBSTER STREET OAKLAND; one-story steel warehouse.
 Owner—City of Oakland, Oakland Bank Bldg., Oakland.
 Plans by Port of Oakland Commission, Oakland Bank Bldg., Oakland.
 Contractor—R. W. Littlefield, 227 17th St., Oakland. \$40,976

DWELLING
 (507) W 64th AVE. 50 S Laird Ave. OAKLAND; 1-story 5-room dwelling and 1-story garage.
 Owner and Builder—L. E. Van Ness, 4920 Park Blvd., Oakland.
 Architect—Not Given. \$3800

DWELLING
 (508) 2108 CLAREMONT AVENUE, BERKELEY; two-story 6-room 1-family frame and stucco dwelling and garage.
 Owner—Hufschmidt and Wahlen, 407 Federal Bank Bldg., Oakland.
 Architect—W. W. Dixon, 1544 Fifth Ave., Oakland.
 Contractor—E. M. Williamson, 3761 Hollandale, Oakland. \$5,160

ALTERATIONS
 (509) NO. 1409 FOURTEENTH ST., OAKLAND. Alterations and additions.
 Owner—W. Moresi and E. Figoni, 1409 14th St., Oakland.
 Architect—Not Given.
 Contractor—Charles Ungaretti, 1727 Foothill Blvd., Oakland. \$3000

ALTERATIONS
 (510) NO. 720 BROADWAY, OAKLAND. Alterations.
 Owner—Bank of America.
 Architect—Not Given. \$2000

ADDITION
 (511) NO. 3576 FRUITVALE AVE., OAKLAND. Addition.

Owner—C. L. Clawson, 220 John St., Oakland.
 Architect—Not Given. \$1600

DWELLING
 (512) E NOTTINGHAM DR. 388 S Taurus Ave., OAKLAND. One-story 4-room dwelling.
 Owner—E. W. Stone, 5800 Notting-ham Ave., Oakland.
 Architect—L. S. Stone, 337 17th St., Oakland.
 Contractor—Frank Appelle, 3405 Acton St., Berkeley. \$4000

RESIDENCE
 (508) NO. 55 FAIRVIEW, PIEDMONT. One-story 6-room frame residence and garage.
 Owner—Mrs. A. Henningsen, 391 43rd St., Oakland.
 Architect—Not Given.
 Contractor—J. S. Flagg, 3562 Redwood Road, Oakland. \$5500

RESIDENCE
 (513) NO. 491 CALUSA AVE., BERKELEY. One-story 5-room 1-family frame residence and garage.
 Owner—Mrs. J. Vale, 499 Calusa Ave., Berkeley.
 Architect—F. A. Stokes, 325 Berkeley Park Blvd., Oakland. \$3650

RESIDENCE
 (514) NO. 989 REGAL ROAD, BERKELEY. Two-story five-room 1-family frame residence.
 Owner—L. I. Schandel, 1484 University Ave., Berkeley.
 Architect—Fox Bros., Berkeley. \$4000

DWELLING
 (515) E 96th AVE. 300 S Elmar St., OAKLAND; 1-story 5-room dwelling.
 Owner and Builder—C. Tollefsen, 450 Foothill Blvd., Oakland.
 Architect—Not Given. \$2850

DWELLING
 (516) S PROCTOR AVE. 575 E Agnes St., OAKLAND; two-story 6-room dwelling.
 Owner—Carl W. Nystrom, 525 Glenview Ave., Oakland.
 Architect—Not Given.
 Contractor—P. R. Haulman, 1 2 4 3 Broadway, Alameda. \$4000

DWELLING
 (517) 6223 TRENOR ST., OAKLAND; one-story four-room dwelling.
 Owner—E. Snyder, 6223 Trenor Street, Oakland.
 Architect—Not Given.
 Contractor—J. H. Pickrell, 332 Santa Clara Ave., Alameda. \$2900

DWELLING
 (518) 1551 HAWTHORNE TERRACE, BERKELEY; two-story 11-room frame and stucco dwelling.
 Owner—E. F. Crocheron, 1868 Euclid Ave., Berkeley.
 Architect—W. C. Ambrose, 605 Market St., San Francisco.
 Contractor—T. E. Courtright, 5 0 9 8 Manilla Ave., Oakland. \$12,000

Architect—Wm. Knowles, 1214 Webster St., Oakland.
 Contractor—Jacks & Irvine, Inc., 74 New Montgomery St., San Francisco.
 Filed April 25, '31. Dated April 24, '31.
 Tenths of each month.....75%
 Usual 35 days.....25%
TOTAL COST, \$24,757
 Bond, \$12,500. Sureties, Alvah Doe, Joseph Rolando. Limit, 50 days. Plans and Spec. filed.

DWELLING
 (74) LOTS 46, 47, and 50, Merriewood, Oakland; all work on one-story and basement dwelling.
 Owners—Alvena C. and E. W. Stone, Oakland.
 Architect—Louls S. Stone, 337 17th St., Oakland.
 Contractor—Frank G. Appelle, 2 4 0 5 Acton St., Oakland.
 Filed April 27, '31. Dated April 22, '31.
 When frame is completed.....\$669
 Executor trust deed.....3000
TOTAL COST, \$3669

Bond, \$3669. Sureties, Fidelity & Deposit Co. of Maryland. Forfeit, \$2.00 per day. Limit, 100 working days. Plans and Spec. filed.
FRATERNITY HOUSE
 (75) LOTS 7 and 9 BLK 17, Daley's Scenic Park Tract, Berkeley; general construction on fraternity house.
 Owner—Sigma Chapter of Alpha Chi Sigma House Assn., Berkeley.
 Architect—W. H. Ratcliff, Jr., Mercantile Trust Co. Bldg., Berkeley.
 Contractor—H. K. Schulz, 811 Mendocino, Berkeley.

Filed April 29, '31. Dated April 13, '31.
 When frame is completed.....\$7374.75
 1st coat of plaster.....7374.75
 When completed.....7374.75
 Usual 35 days.....7374.75
TOTAL COST, \$29,429
 Bond, \$29,429. Sureties, National Surety Co. Forfeit, \$10 per day. Limit, Aug. 10, 1931. Spec. and Plans filed.

RESIDENCE
 (76) E HAWTHORNE Terrace North of Cedar St., Berkeley; general construction on 2-story and basement frame and plaster residence.
 Owner—B. H. Crocheron, 1868 Euclid Ave., Berkeley.
 Architect—Wm. C. Ambrose, 605 Market St., San Francisco.
 Contractor—T. D. Courtright, 5 0 9 8 Manilla Ave., Oakland.

Filed April 29, '31. Dated April 24, '31.
 When second floor joists are placed.....\$3192.75
 When brown coated.....3192.75
 When standing trim installed.....3192.75
 When contract is completed.....3192.75
 Usual 35 days.....4257.00
TOTAL COST, \$17,028.00
 Bond, \$17,028. Sureties, Maryland Casualty Co. Limit, \$10 per day. Limit, 120 days. Plans and Spec. filed.

COMPLETION NOTICES

ALAMEDA COUNTY	
Recorded	Accepted
April 27, 1931—LOT 37 BLK 9, Lakeshore Highlands, Oakland. Louis W Roth to whom it may concern.....	April 27, 1931

April 27, 1931—NO. 118 MAGNOLIA, Piedmont. W A Netherly to whom it may concern.....	April 24, 1931
April 27, 1931—W KINGSLEY PL (now known as Valant Place) 100 ft. N Trestle Glen Road, Oakland. Pauline De Luchl to Harry C Knight.....	April 29, 1931
April 25, 1931—SE CENTRAL AVE and 9th St, Alameda. W G Meagher and H Gede, Jr to Independent Iron Works.....	April 4, 1931
April 25, 1931—PTN LOT A, Col lege Court, Oakland. C W Short to whom it may concern.....	April 20, 1931
April 24, 1931—PTN LOT 2. Subdiv of Kellersberger's Plot 72, Oakland. Charles W and Verda N Hull to Noble F Justice.....	April 14, 1931
April 23, 1931—SE FIFTEENTH AV 23 NE E-16th St., Oakland. Joseph Bilota to whom it may concern.....	April 22, 1931
April 22, 1931—3142 CARLSEN ST., Oakland. James L and Martha D Syder to James G Fisher.....	April 20, 1931
April 22, 1931—2956 CARMEL ST., Oakland. J J and Mozelle McGinley to Harry C Knight.....	April 10, '31
April 27, 1931—GIANNI HALL, Oakland. Scott-Buttner Erect Co vs Hugh W Hogan, George W Erickson, J A Stephen, N Gage, G G Erickson, Mabel T Pease, Ethel F Gross, Bessie S Richardson.....	April 23, 1931
April 27, 1931—LOT 157 BLK 2 E, Bowles and Fitzgerald Tract, Oakland. Robert E Bartlett to N E Rockwell.....	April 27, 1931

LIENS FILED

ALAMEDA COUNTY

Amount	Recorded
April 28, 1931—SE 94th AVE and E Street, Oakland. Boorman Lumber Co vs Pacific States Auxiliary Corp, G H and G F Faragher.....	\$31.51
April 28, 1931—1520-1522 HARRISON ST, Oakland. Scott-Buttner Erect Co vs Hugh W Hogan, George W Erickson, J A Stephen, N Gage, G G Erickson, Mabel T Pease, Ethel F Gross, Bessie S Richardson.....	\$63.50
April 24, 1931—NORTH LINE E 14th St 181-21 ft E of 13th Ave, Oakland. C W Roland vs J R L Jones.....	\$155.25
April 24, 1931—1520-22 HARRISON St, Oakland. Jas A Davis Co vs Hugh W Hogan, G W Erickson, J A Stephen, N Gage, G G Erickson, Mabel T Pease, Ethel F Gross, Bessie S Richardson.....	\$24.94
April 22, 1931—LOT 20, Garden of Eden, Eden Twp. W F Garrett doing business as Garrett Mill & Lumber Co vs J C Bonham and F J Lyman.....	\$58.50

RELEASE OF LIENS

ALAMEDA COUNTY	
Recorded	Amount
April 22, 1931—LOT 2, Garden of Eden Tract, Eden Twp. W F Garrett doing business as Garrett Mill & Lumber Co to J C Bonham.....	\$58.50

BUILDING CONTRACTS

ALAMEDA COUNTY

No. Owner	Contractor	Am't.
73 Weinstein	Jacks	24757
74 Stone	Appelle	3669
75 Sigma	Schulz	29429
76 Crocheron	Courtright	17028

BUILDING
 (73) W BROADWAY 37 1/2 ft. S of 19th Street, Oakland; general construction except wiring, plumbing, heating and painting on one-story and basement class C building.
 Owner—Isidor Weinstein Investment Co., 1041 Market St., San Francisco.

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
 490 GEARY STREET

Phone FRanklin 9400

San Francisco

BUILDING CONTRACTS

SAN MATEO COUNTY

RESIDENCE

LOT 37, Wellesley Park, San Mateo.
All work for two-story frame and stucco residence.
Owner—H. L. Marinette.
Architect—Not Given.
Contractor—Russell & Duncan, Redwood City.
Filed April 23, '31. Dated April 6, '31.
Sub-floor laid.....\$1127.68
Ready for lath.....1127.65
When plastered.....1503.53
When completed.....1879.43
60 days after.....1879.43
TOTAL COST, \$5717.30

Bond, limit, forfeit, none. Plans and specifications filed.

RESIDENCE

LOT 7 BLK 26, Milbrae Highlands.
All work for one-story frame and stucco residence.
Owner—George Wale et al, 575 Pierce St., San Francisco.
Architect—Charles F. Strothoff, 2274 15th St., San Francisco.
Contractor—Moses Little, 715 South Humboldt St., San Mateo.
Filed April 22, '31. Dated April 22, '31.
Frame up.....\$1725
Brown coated.....1725
Completed.....1725
Usual 35 days.....1725
TOTAL COST, \$6600
Bond, \$3450. Surety, Glen Falls Indemnity Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.

BUILDING PERMITS

SAN MATEO

BUNGALOW, \$5000; Lot 13 Blk Q, No. 151 16th Ave., San Mateo; owner, Walter Carlson; contractor, Oscar Swanson, 1212 Oak Grove St., San Mateo.
RESIDENCE, \$4000; Lot 9 Blk 20, No. 927 South Grant St., San Mateo; owner and contractor, Lengfeld & Olund, 145 El Camino, San Mateo.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
April 23, 1931—LOT 13 and Part Lot 12, Blk 1, Dumbarton. F Dulik to Rudolf Svoboda.....April 18, 1931
April 23, 1931—LOT 11 and Part 12, Dumbarton. F Dulik to Rudolf Svoboda.....April 18, 1931
April 23, 1931—LOT A Sub of Lots 112 and 113, San Mateo City Homestead. Hugo Hultberg to whom it may concern.....April 20, 1931
April 24, 1931—PART LOT 6, Eagle Hill Villa Tract, San Mateo. Home Mutual Deposit-Lon Co to whom it may concern.....April 24, 1931
April 24, 1931—LOT 1 BLK 2, N. Fair Oaks. Emil Bernelsen to whom it may concern.....April 17, 1931
April 24, 1931—LOT 1 BLK 6, Baywood. J C Wells to J C Wells.....April 22, 1931
April 25, 1931—LOT 91, Studio Tract, San Mateo. Daniel J McDonald to whom it may concern.....April 24, 1931
April 25, 1931—LOT 21 BLK 14, Burlingame Grove. Peter Liberapulo to Ingvard Sorensen.....April 24, 1931
April 25, 1931—LOT 30 BLK 17, Baywood. Ingvard Sorensen et al to whom it may concern.....April 25, 1931
April 25, 1931—PART LOT 7, Valparaiso Park. Edward Weller to Clinton-Stephenson Constr.....April 25, 1931
April 25, 1931—LOT 8 BLK B, Fay's Redwood Gardens. Moncreiff Bros

to whom it may concern.....April 24, 1931
April 20, 1931—PART BLK 18, San Mateo. Jose Lacasamana to Lengfeld & Olund.....April 18, 1931
April 20, 1931—LOTS 42 AND 43 BLK 2, North Fair Oaks. A R Ford to A R Ford.....April 18, 1931
April 20, 1931—4372 ACRES LAND, Hillsborough. Aug J Lang Jr to whom it may concern.....April 18, 1931
April 20, 1931—LOTS 9 AND 10, El Cerito Heights Tract. D E McLaughlin to Oscar L Cavanagh.....April 15, 1931
April 20, 1931—LOT 12 BLK A, Foy's Redwood Gardens. J G Lehman to whom it may concern.....April 10, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded Amount
April 22, 1931—LOT 12 and Part Lot 13 Blk 2, San Bruno. B J Smith vs George L Hamilton et al.....\$40
April 23, 1931—LOT 12 Part Lot 13 Blk 3, San Bruno. E E Phillips et al vs George Loren Hamilton.....\$676.02
April 20, 1931 — LOCATION NOT Given. San Mateo Feed & Fuel Co vs G Brelgato and Edward Corasso. Credit not to exceed 6 mo.
April 21, 1931—LOT 12 and Part Lot 13, San Bruno. E Parraque, \$154; Harry Rodgers, \$140; Charles L Howard, \$52 vs George Loren Hamilton
April 21, 1931—LOTS 135, 136 AND 181, Skylanda No. 2, Julius Bloom, \$270.50; Arvid Hamburg, \$270.50 vs Frau Kimball, et al
April 22, 1931—LOT 12 AND PART Lot 18 Blk 8, San Bruno. B J Smith vs George L Hamilton.....\$40

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded Amount
April 20, 1931—PART LOT 8 BLK 30, Vista Grand. M L Sanders to whom it may concern.....
April 22, 1931 — LOCATION NOT Given. Progress Lumber Co to Clarence W Joycox.....

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded Amount
April 22, 1931 — LOCATION NOT Given. Progress Lumber Co to Clarence W Joycox et al.....

BUILDING CONTRACTS

SANTA CLARA COUNTY

ALTERATIONS
MARKET AND BALBACH STS, San Jose. All work for alterations and additions to one-story garage.
Owner—John Q. Corotto, 560 N-Fifth St., San Jose.
Architect—Not Given.
Contractor—T. J. Lamm, 312 S-Ninth St., San Jose.
Filed April 22, '31. Dated April 21, '31.
On 1st and 15th of each month.
TOTAL COST, \$3627
Bond, none. Limit, on or before 10th day of June, 1931. Forfeit, none. Plans and specifications filed.

ADDITION
E S-MARKET ST., approximately 137.84 N San Fernando St., San Jose. All work for alterations and addition to two-story and part 4-story telephone building.

Owner—Pacific Telephone & Telegraph Company.
Building Engineer—E. V. Cobby; G. H. Senger, Chief Engineer.
Contractor—R. O. Summers, 17 N. First St., San Jose.
Filed April 22, '31. Dated Mar. 5, '31.
As work progresses.....75%
Usual 35 days.....25%
TOTAL COST, \$13,907
Bond, \$19,907. Surety, Pacific Indemnity Co. Limit, 60 working days from March 9, 1931. Forfeit, none. Plans and specifications filed.

BUILDING PERMITS

SAN JOSE

RESIDENCE, frame, 6-room, \$4000; No. 1095 Morse St., San Jose; owner, Benj. Quimet, 655 Riverside St., San Jose.
RESIDENCE, frame, 6-room, \$4000; No. 1558 McDaniel St., San Jose; owner and contractor, Wm. H. O'Neil, 1500 McDaniel St., San Jose.
REPAIR fire damage to frame residence, \$1000; No. 195 S-Thirtieth St., San Jose; owner, M. Q. Wilson, 1250 E-Santa Clara St., San Jose; contractor, A. H. Rose, 478 E-25th St., Oakland.
RESIDENCE, 2-story 10-room frame, \$13,000; No. 1175 University Ave., San Jose; owner, Dr. E. F. Cook, St. Claire Bldg., San Jose; architect, Ralph Wyckoff, San Jose National Bank Bldg., San Jose; contractor, G. M. Latta, 157 Rhodes Court, San Jose.

BUILDING PERMITS

PALO ALTO

ALTER store, \$1000; No. 267 University Ave., Palo Alto; owner, Katherine A. Ferry, Premises; contractor, Black & Campbell, 762 Homer Ave., Palo Alto.
ALTER residence, \$1000; No. 734 Melville Ave., Palo Alto; owner, Anna D. Hesselmeier, Premises.

BUILDING PERMITS

REDWOOD CITY

SERVICE station, masonry, \$6000; No. 328 El Camino Real, Redwood City; owner, Union Oil Co of Calif. Mills Bldg., San Francisco; contractor, Mr. Bennett.
DWELLING, frame, 5-rooms, bath and garage, \$3000; No. 1135 Fay St., Redwood City; owner, E. Sandberg; contractor, H. E. Soderstrom.

BUILDING PERMITS

BURLINGAME

BUNGALOW, \$5500; Lot 9 Blk 15, Laguna St., Burlingame; owner and contractor, E. J. Hargrave, 1106 Laguna St., Burlingame.
BUNGALOW, \$6500; Lot 9 Blk 10-B, N-Carlos St., Burlingame; owner, John Buchanan; contractor, Buchanan & Jackson.
RESIDENCE, \$5000; Lot 10 Blk 63 E 7-Monter St., Burlingame; owner, Fred H. Brown, 1473 Drake Ave., Burlingame; contractor, C. B. McClain, 1412 Edgehill Drive, Burlingame.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted
April 13, 1931—LOT 26 BLK 4, Lendrum Tract, San Jose. 1 J Curry

to whom it may concern.....
April 10, 1931
 prl 14, 1931—W PALM ST. 68.55 S
 Goodyear St., San Jose. Philip
 Taormino et al to whom it may
 concern.....April 8, 1931
 prl 14, 1931—E DELMAS AVE 100
 N San Salvador St., San Jose.
 Rosie F Cereghino to whom it may
 concern.....April 14, 1931
 prl 15, 1931—THEODORE ROOSE-
 velt Jr. High School, San Jose. San
 Jose High School District to whom
 it may concern (6 completions for
 electric work; painting; window
 shades & linoleum; kitchen equip-
 ment; special fixtures work and
 lockers).....March 16, 1931

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
 prl 13, 1931—ALL THAT PTY OF
 Lot 30, Glen Uva Rancho No. 2,
 lying W of Center line Glen Uva
 Drive, except 0.992 ac conveyed to
 Osen. Chamberlin Metal Weather-
 strip Co, Inc vs N T Bradford. \$43.75
 prl 14, 1931—LOT 16 and W 15 ft. of
 Lot 17, Lynnhurst Tract, San Jose.
 Amour Luck vs Fred S Thomas et
 al.....\$250.26

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
 prl 14, 1931—LOT 30 BLK 93,
 Manlius Subd, Palo Alto. B C
 Hooker, \$154.50; Steve Anderson &
 Son, \$169.10; Tilden Lumber & Mill
 Co, \$811.66; Sunset Lumber Co,
 \$61.90; Frank A Grunert, \$170;
 Merner Lumber Co, \$435.35 to J T
 and Annie Evelyn Fats. \$100.
 prl 14, 1931—BEG. 313.50 FT. W
 and 150 ft. S of SW Hamilton and
 Ashby Aves W 55xS 159.90 ft. Pt.
 Lot 15 Ashby Addn and Pt. Boyce
 and Ashby Tract, also beg 263.5 ft.
 Wx150 ft. S of SW Ashby and
 Hamilton Aves. extd W 59xS 159.9
 ft. Part Lots 15 and 16, Ashby Ad-
 dition and t/w. Merner Lumber
 Co (3 releases); Progress Lumber
 Co to Jeessie La Venture.....

BUILDING CONTRACTS

MARIN COUNTY

COTTAGE
 SAUSALITO. All work for cottage
 (no agreement filed).
 Owner—A. P. Hall, 33 Miller St., Sau-
 salito.
 Architect—Jack H. Gilman.
 Contractor—Andrew Andersen, 555
 Johnson St., Sausalito.
 Filed April 27, '31. Dated April 14, '31.
 TOTAL COST, \$4380
 Bond, \$2400. Surety, Century Indemnity
 Co. Limit, forfeit, none. Plans
 and specifications filed.

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
 April 25, 1931—SAN ANSELMO, Ed
 Rhoades to whom it may concern
April 25, 1931
 April 21, 1931—FAIRFAX, Albert
 Simer and Geo Kendall to whom
 it may concern.....April 20, 1931
 April 21, 1931—MILL VALLEY, E
 Morris to Melvin Kibce. April 13, 1931
 April 22, 1931—LARKSPUR, Alfred
 E Dennis to whom it may concern
April 18, 1931
 April 24, 1931—SHORT RANCH, San
 Anselmo. Frederick Croker to E
 H Nicolaus.....April 24, 1931
 April 24, 1931—SAN ANSELMO,

Harold E Squire and wife to
 whom it may concern. April 24, 1931
 April 24, 1931—SAN RAFAEL, Dr.
 C A DeLancey to Siemer & Ken-
 dall (alterations).....April 7, 1931

BUILDING CONTRACTS

SONOMA COUNTY

SCHOOL
 NINTH ST. Opposite Intersection of
 A St., Santa Rosa. All work for
 three-story school building.
 Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.,
 San Francisco.
 Architect—H. A. Minton, Bank of
 America, Eddy and Powell Sts.,
 San Francisco.
 Contractor—Liebert & Troback, 325
 Rialto Bldg., San Francisco.
 Filed April 23, '31. Dated April 16, '31
 About 15% of each month..... 75
 Usual 35 days..... 25%
 ACTUAL COST + \$5000 Fee; Total
 cost not exceed \$80,000.
 Bond, \$80,000. Surety, American Bonding
 Co. of Baltimore. Limit, Sept. 1,
 1931. Forfeit, none. Plans and specifi-
 cations filed.

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 April 27, 1931—LOT 20, Plat of
 Finchurst Addition to Santa Rosa.
 Anna V McPhee to W J Lindsay
April 24, 1931
 April 27, 1931—NO. 526 Riley St, N
 of Johnson St. Gwentolyn M
 Alarid to H T Mitchell. April 25, 1931
 April 27, 1931—ABOUT 1/2 mile N
 of Santa Rosa and Cleveland Ave.
 G B Rocco to W J Lindsay.....
April 27, 1931
 April 18, 1931—S CARRILLO W Mor-
 gan St., Santa Rosa. Robert D
 Maxwell to whom it may concern
April 17, 1931
 April 20, 1931—LOT 1 BLK A, Mer-
 riam Addition to Santa Rosa.
 Frances A Smith to Allan F Smith
April 10, 1931

LIENS FILED

SONOMA COUNTY

Recorded Amount
 April 20, 1931—27 ACRE IN NE 1/4
 of Sec. 8 T 7 N R 8-W. Allan F
 Smith vs Gust & George Kuchor-
 akes and Peter Dariots.....\$778
 April 20, 1931—LOT ON ST. HEL-
 ena Ave in McDonald's Addition
 near Lot 8 Blk 35, Santa Rosa.
 Allan F Smith vs William T and
 Elizabeth Owen.....\$231.34
 April 21, 1931—LOT 8 BLK 35, Mc-
 Donald's Addition to Santa Rosa.
 H A Reese vs W T Owen.....
\$528.42 and \$6
 April 21, 1931—LOT 8 BLK 35, Mc-
 Donald's Add to Santa Rosa. Dix-
 on Hardware Co vs W T Owen.....
\$388.47 and \$6

BUILDING PERMITS

MARTINEZ

STORE building, one-story brick and
 steel (2 stores), \$12000; Main and
 Alhambra Ave., Martinez; owner,
 Leo Leppow, Martinez; architect,
 Leo H. Ford, 1435 Harrison St.,
 Oakland; contractor, Wallace Snel-
 grove, 877 24th St., Richmond.

BUILDING PERMITS

RICHMONO

COTTAGE, frame and plaster, 5-room
 and detached garage, \$7500; S

Pennsylvania St., bet. 17th and
 18th Sts., Richmond; owner, J.
 A. Petersen, 720 16th St., Rich-
 mond; plans by owner.

COTTAGE, frame and plaster, 5-room
 and garage under, \$5000; E Dimm
 bet. Nevin and Barrett, Richmond;
 owner, Herbert Green, 819 Ramo-
 na St., Albany; architect, L. F.
 Hyde.

COTTAGE, frame and plaster, 5-room
 and detached garage, \$3000; E
 36th St., bet. Barrett and Roose-
 velt Sts., Richmond; owner, H. H.
 Beebe, 966 61st St., Oakland;
 plans by owner.

COTTAGE, frame and plaster, 5-room
 and detached garage, \$3000; E
 32nd St., bet. Esmond and Mc-
 Bryde, Richmond; owner, W. G.
 Jones, Giant, Calif.; architect, L.
 F. Hyde; contractor, C. E. Scott,
 4123 Fampas Ave., Oakland.

COTTAGE, frame and plaster, 5-room
 and garage under, \$5000; N Es-
 mond bet. 34th and 35th Sts.,
 Richmond; owner, Waring &
 Evans, 480 McLaughlin St., Rich-
 mond; plans by owner.

COTTAGE, frame and plaster, 5-room
 and detached garage, \$4000; S
 Pennsylvania, bet. 17th and 18th
 Sts., Richmond; owner, J. O. Pet-
 ersen, 720 16th St., Richmond;
 plans by owner.

COTTAGE, frame and plaster, 5-room
 and detached garage, \$4100; W
 35th St. bet. Roosevelt and Chi-
 son, Richmond; owner, Geo. Stuf-
 fler, 415 5th St., Richmond; plans
 by E. J. Freethy.

COTTAGE, frame and plaster, 5-room
 & detached garage, \$3500; Eighth
 St., bet. Lucas and Lincoln Sts.,
 Richmond; owner, L. E. Fowler,
 309 7th St., Richmond; plans by
 Owner; contractor, David Dryden,
 424 Key Blvd., Richmond.

COTTAGE, frame and plaster, 5-room
 and detached garage, \$3000; N
 Roosevelt, bet. 42nd and 43rd Sts.,
 Richmond; owner, F. A. Norton,
 Piedmont; plans by Peppin &
 Johnston; contractor, Peppin &
 Johnston, 332 23rd St., Richmond.

ALTER store for police dept. offices,
 \$1500; No. 41 Park Place, Rich-
 mond; owner, City of Richmond;
 plans by owner.

BUILDING PERMITS

STOCKTON

PRINT shop, \$4000; Harding Way,
 Stockton High School; owner,
 Board of Education, Stockton.
 REMODEL store building, \$1800; No.
 40 E-Washington St., Stockton;
 owner, Antonio and Frank R.
 Rossi, 211 E-Pine St., Stockton;
 contractor, O. H. Chain, Bank of
 America Bldg., Stockton.
 DWELLING, rustic, 7-room and gar-
 age, \$4500; No. 1835 Ramona Ave.,
 Stockton; owner and contractor,
 J. M. Heltbrand, 2644 E-Main
 St., Stockton.
 DWELLING, rustic, 6-room and gar-
 age, \$3500; No. 1227 N-Ophir St.,
 Stockton; owner, J. H. Grimsley,
 1329 E-Market St., Stockton; con-
 tractor, T. E. Williamson, 1859 W-
 Park Ave., Stockton.
 DWELLING, duplex and 2 garages,
 \$3750; No. 217-219 N-Ophir St.,
 Stockton; owner, Marie Prima;
 contractor, F. T. Anderson, An-
 teros Ave., Stockton.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
 April 18, 1931—COALINGA, Asso-
 ciated Oil Co to E C Fletze & Son
 (Monterey pipe line).....April 16, 1931
 April 20, 1931—BEG AT A POINT

on S Katherine St 50 ft wide at the NW Cor. Lot 5, shown on Map of Peers Place, Angus L and Vera Vitale to whom it may concern.....April 20, 1931

April 21, 1931—ALL THAT PORTION of Lots 3 and 4 Blk 4, Maple Park, Eva I Mathews to F C Carlson.....April 21, 1931

April 22, 1931—FROM COALINGA to Monterey. Associated Oil Co to Hutchings Co.....April 15, 1931

April 24, 1931—LOT 12, Map entitled George E. De Lorimer Subdivision in Salinas. Amanda Boudour to Wallace L Richmond.....April 14, 1931

April 27, 1931—LOT 5 OF LOT 13 of Burbank and Devondorf's Addition to King City. T H Williams to whom it may concern.....April 23, 1931

April 27, 1931—PRESENT HIGH School Building Site, Pacific Grove High School District to Fred E Turner, April 18, 1931; Charles A Langlais.....April 14, 1931

LIENS FILED

MONTEREY COUNTY

Recorded	Amount
April 20, 1931—LOTS 1, 2, 3 AND 4 Blk 65, Map of East Monterey. E Hockett vs William Forkner.....\$76.50	
April 21, 1931—BEG. E COR. LOT 3 Map of Locke-Paddon 3rd Sub-division. Fred J Weckerle, San Francisco Wrecking Co vs Harry L Paris.....\$387.71	

RELEASE OF LIENS

MONTEREY COUNTY

Recorded	Amount
April 20, 1931—ALL THAT CERTAIN ppty situated in Rancho Dolosa Nueva Y Moro Cojo, Monterey County. Sterling Lumber Co to J E. Sparr; Cirplano Jorge and Lillian Jorge.....\$277.35	

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded	Accepted
April 22, 1931—LOT 10 BLK 13, Yosemite Terrace, Stockton. F P Dobson to whom it may concern.....April 20, 1931	

BUILDING PERMITS

SACRAMENTO

WORKING sheds, \$2550; No. 1301 L St., Sacramento; owner, O'Neil Bros., 13th and L Sts., Sacramento; contractor, Siller Bros., 1614 13th St., Sacramento.

HOUSE and garage, 6550; No. 1200 4th St., Sacramento; owner, Land Drive Terrace, 819 J St., Sacramento.

DWELLINGS and garages (3) \$4250 each; No. 1108-09-19 Perkins Way, Sacramento; owner, Land Drive Terrace, 819 J St., Sacramento.

STORE, \$4800; No. 420-422 I St., Sacramento; owner, Fong Yee Min, 422 I St., Sacramento.

REPAIRS, \$1500; No. 1608 M St., Sacramento; owner, A. Henderson, 1600 M St., Sacramento.

FUNERAL parlors, \$12,000; No. 808 O St., Sacramento; owner, George Klumpp, 830 O St., Sacramento.

RESIDENCE, \$2000; No. 2156 Sixth Ave., Sacramento; owner, M. Rankin, 1330 W St., Sacramento; contractor, M. Petersen, 1544 37th St., Sacramento.

STORE, \$12,000; No. 2714 Riverside Blvd., Sacramento; owner, O. Selfert, 4757 J St., Sacramento;

contractor, Campbell Constr. Co., 809 R St., Sacramento.

WAREHOUSE, grocery, \$50,000 Front and 2nd Sts.; owner, Melius and Drescher, premises; contractor, W. Murrell, 2015 23rd St.

HOUSE and garage, \$6000; 2540 11th Ave.; owner, A. Olson, 2730 Q St.; contractor, C. Thompson, 1720 38th Street.

LIENS FILED

SACRAMENTO COUNTY

Recorded	Amount
April 21, 1931—2785 EIGHTEENTH St., Sacramento. D T Farnsworth vs W B Turpen.....\$53	
April 24, 1931—2 1/2 ACRES ptn lot 3 Subdiv Sec 28 Rio Del Paso. Geo W Townsend vs Chas O McMorry.....\$30	

BUILDING PERMITS

FRESNO

RESTAURANT, \$2000; H and Franklin Sts., Fresno. Owner, E. L. Veau Black; contractor, Chas. D. Franklin.

DWELLING and garage, \$4500; No. 945 Vagedes St., Fresno; owner, W. T. Harris, 577 McKinley St., Fresno.

ALTERATIONS and additions, \$1950; No. 1433 Roosevelt St., Fresno; owner, E. J. Farr, Premises.

DWELLING and garage, \$3000; No. 125 Alhambra Ave., Fresno; owner, A. M. Chitty, 402 Glenn St., Fresno

ALTERATIONS and additions, \$1000; No. 3551 Ventura St., Fresno; owner, Oesterle's Bakery, Premises.

DWELLING and garage, \$2600; 655 D St.; owner and builder, Lisa Vogt.

COMPLETION NOTICES

FRESNO COUNTY

Recorded	Accepted
April 22, 1931—LOT 31, Terrace Gardens. Taylor Wheeler, Inc to	

whom it may concern.....Apr 20, '31

April 22, 1931—COALINGA. Associated Oil Co to Hutchings Co.....April 15, 1931

April 23, 1931—KERN COUNTY. (Highway). Department of Public Works Division of Highways, State of California to Valley Paving & Constr Co.....April 6, 1931

April 23, 1931—LOT 4, P-G F-G, Sub No. 1, Fresno. Fresno County Water Works, Dist. No. 1 to M C Cowan.....April 21, 1931

April 24, 1931—LOTS 38 AND 39 Annex No. 2 High Addition, Fresno. Trewthitt-Shields to A Gassmann.....April 21, 1931

April 24, 1931—LOTS 33 & 34 BLK 12, Sierra Vista Addition, Fresno. R G Leach et ux to whom it may concern.....April 16, 1931

April 25, 1931—LOTS 13 AND 15 Blk W College Addition, Fresno. Carl Gustafson to whom it may concern.....April 25, 1931

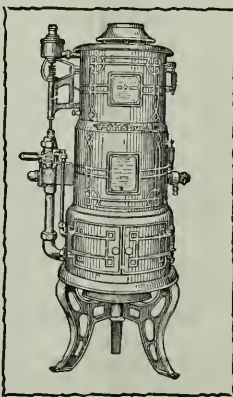
April 25, 1931—LOTS 15 AND 16, Blk 1, College Addition, Fresno. Carl Gustafson to whom it may concern.....April 25, 1931

LIENS FILED

FRESNO COUNTY

Recorded	Amount
April 21, 1931—LOTS 17 TO 21 BLK 23, Clovis. John Ankey vs Walter Jarvis et al.....\$55	

Concrete Reinforcing Steel Institute, Tribune Tower, Chicago, Ill., has issued a code of standard practice for concrete joist construction and floor forms. The code is intended to govern conditions not covered by engineers' and architects' plans and specifications, and also gives valuable information as to practices which are standard within the industry and which may be used to decrease the cost of floor design when either metal or wood filler forms are used.



A "Pittsburg" Automatic Water Heater installed in the Home indicates high quality throughout.

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5. F. HOME BUILDING SPURTS DURING APRIL

Building permits issued in San Francisco during the month of April involved an expenditure of \$1,837,433, according to John E. Leonard, superintendent of the Municipal Bureau of Building Inspection. During the month 63 permits were issued; of these 424 covered alterations, repairs and additions to standing buildings at a cost of \$240,010. The balance of the operations comprised new structures, two of which were undertaken by the State Board of Harbor Commissioners for \$245,000.

Frame building construction last month was unusually active. The total number of frame buildings for which permits were issued last month exceeded the total for each month since January, 1928, with the exception of October, 1928 and May, 1929. Last month, permits were issued for 263 frame buildings costing \$1,075,323, and of which 95 per cent covered the erection of single family dwellings.

During the past four months, Leonard reports, 2,228 building permits have been issued for improvements aggregating an expenditure of \$7,471.15 as compared with 2,275 permits in 1930 when the total valuation registered \$7,435,010.

A segregated listing of the April, 1931, activities classified according to types of construction, follows:

Uses	No. of Permits	Est. Cost
A	1	\$ 80,000
C	12	187,100
Changes	263	1,075,323
Alterations	424	250,010
Gar. Bldgs.	2	245,000
TOTAL	703	\$1,837,433

WAGES INCREASED ON BOULDER PROJECT

Elwood Mead, U. S. Reclamation Commissioner, has been informed by officials of the Six Companies, Inc., contractors on the Boulder Dam, that he pay for unskilled workers on the project will be raised from \$3.50 to \$4.00 per day.

Protests were filed with the Federal and Interior departments claiming that workers on the project were receiving less than the average paid in the vicinity for private work.

The Interior Department was not divided as to whether the pay for unskilled workers, which also was said to be lower than the average, would be increased.

This price for unskilled labor, an official statement by the interior department said, is regarded as good wage even in prosperous times. With the congregation of unemployed in the vicinity of the Hoover Dam it admitted that workers could have been secured at a lower price, but the present action is in touch with the government policy of doing all it can toward maintaining favorable wage levels.

ARCHITECTS BID FOR FEDERAL WORK

Sixteen architects submitted bids for preparation of plans for construction of a building at Tatoosh Island for the United States Weather Bureau.

Congress appropriated \$30,000 for the building which must cover architect's fees.

Bids were based on percentage of cost of the building, two sets of bids being submitted, one based on plans drawn with supervision by the government officials and the other without such supervision. The complete list of bids as released by the weather bureau office follows:

Architect	With Supervision	Without Supervision
Higgins & Biedermann, Portland	4 %	3 %
Hancock & Lockman, Seattle	5 1/2 %	3 1/2 %
E. J. Bresemann, Seattle	5 1/2 %	3 %
J. M. Taylor, Seattle	7 1/2 %	4 %
Wm. Altken, Seattle	8 %	4 1/2 %
Stimson & McDonald, Seattle	6 %	4 %
F. A. Gelsler, Seattle	8 %	4 %
I. L. Wright, Seattle	6 %	4 %
F. H. Fowler, Seattle	6 %	3 1/2 %
Chas. Hay, Seattle	7 %	4 1/2 %
V. W. Voorhes & Rousch, Seattle	7 1/2 %	4 %
Baker, Voigal & Sontsch, Seattle	6 %	4 %
A. A. Gelsler, Seattle	6 %	7 %
S. A. Nelson, Tacoma	8 %	5 %
J. L. Holmes, Seattle	6 to 7 1/2 %	-
O. F. Nelson, Seattle	7 1/2 %	5 %

WUELKER REFLECTOR GIVEN STOCK PERMIT

The Wuelker Reflector Lighting Corporation of San Francisco, has been authorized by the State Corporation Commissioner to sell 200,000 shares of 7% common capital stock, with a par value of \$1.00 per share. The Corporation is capitalized at \$1,000,000.

It is the intention to market all of this stock within the electrical and building industry.

The Wuelker Corporation is the manufacturer and patentee of the Wuelker Baby White Kitten Lamp, an aluminum reflector with a processed inside finish called Wuelker Diffusion, which produces the unusually clear white light that has given it the name "Daylight Whittelite."

Products of the company are used for innumerable purposes in the theatrical field and for show-window lighting and building illumination.

The Wuelker Reflector Corporation, organized about 7 years ago, maintains headquarters in the Wuelker Building, 231 Franklin Street, housing complete facilities for every need in publicity, sales, architectural and electrical draftsmanship and electrical engineering. Showrooms are a feature of the corporation headquarters.

SEATTLE REJECTS LICENSE MEASURE

An effort of Seattle building organizations and allied industries to obtain passage of a city ordinance that would require building contractors and sub-contractors to be licensed has met with defeat, the bill being indefinitely postponed by the city council.

The proposed law was designed by its proponents to curb activities of what are termed "fly-by-night" contractors within the city. Protests on the part of a large lobby which attended a public hearing on the bill caused the council to shelve it.

According to terms of the bill a \$15 annual license fee was to be required of all contractors. Five acts were enumerated and violation of one or more would repeal a builder's license. These acts were: Gross incompetence, violation of the city building code, or ordinances; abandonment of a contract with intent to defraud; diversion of funds intended to be used for completion of the contract into other channels, such as for personal use; departure from, or disregard of specifications with the owner's consent, or without orders from the city building department in order to comply with the building code.

The licensing law was favored by the Seattle Material Dealers Credit Association, Seattle Construction Council, Central Building Council, Master Painters Association, Lathers and Masons. The Associated General Contractors, it is stated, also favored the adding of a bond clause to the measure that would require the posting of a bond by contractors and sub-contractors at the time a license was granted.

According to terms of the delayed measure only licensed builders could be employed on projects in Seattle, but this did not include owners who were building for themselves, or making improvements on their own buildings.

BRICK AND TILE CUTTER PERFECTED

A demand for equipment to handle the cutting of brick and tile on the job has led the DeWalt Products Corp., Lancaster, Pa., to design a special unit for this work, applying the principle of direct drive power. Totally enclosed electric motors of either 4 or 8 hp. are used, operating at 1,750 r.p.m. Proper choice of cutting blades adapts this machine to either cutting through or scoring the hardest construction materials, including glazed or floor tile, common or glazed brick, and natural or artificial stone. Easy adjustment of the machine makes possible accurate angular cuts. A tank with an automatic pump and motor is provided for use where a continuous water supply is not available. The entire machine can be mounted on a portable truck for easy handling.

QUANTITY SURVEY IN RELATION TO HEATING AND VENTILATING

By Paul Sodeman, Secretary, St. Louis Chapter, A. S. H. & V. E.

In order to get a correct perspective of the relation Quantity Surveying Service has to Heating and Ventilating it would no doubt be well to first consider the Heating and Ventilating Industry as it is now constituted.

Some type of Heating and Ventilating or Air Conditioning must be applied to practically any structure that is to be called modern in the light of present day practice. The Heating and Ventilating Industry has advanced to a point where it is now possible to take standard built apparatus, such as is available in any market, and so design and install same that it will artfully create and automatically maintain any Air Condition desired, from the conditions which exist at the North Pole to the Conditions existing on the Sahara Desert. An Apparatus intended to produce such extreme conditions would necessarily be quite complicated whereas the usual type of Heating Apparatus encountered, where it is only intended to warm the air within to a comfortable degree is relatively quite simple when considering the many other complicating Features of the modern structure.

The Architect knowing the use to which the building is to be put, and also knowing the possibilities of Heating and Ventilating is the best judge as to just how extensive the application should be in each case, and it therefore becomes his prerogative to specify, using one of two methods which are available in this connection.

The first and most common method of specifying especially in the larger buildings, is for the Architect or his Heating and Ventilating Engineer to make a complete and detailed plan and specification of the Apparatus to be furnished, usually calling each piece of Apparatus by trade name and number, also making detailed layouts of the piping and sheet metal work.

The second method of specifying Heating and Ventilating is instead of making a plan and specification as outlined only the results to be obtained under certain conditions are indicated. In residence work particularly the specifications often read as follows: "Furnish and install a Hot Water Heating and Ventilating of maintaining a Uniform Temperature of 70 degrees in all rooms and halls, when the outside temperature is at zero. Here we have competition not only in Quality, Price and Quantity, but also competitive Engineering, because under this type of specification it becomes the function of the Heating and Ventilating Contractor to design as well as install the necessary Apparatus to accomplish this result, and his guaranteeing the capacity of the Apparatus he installs to create the results specified becomes the basis of his contract.

Although it would seem that this method has a tendency to eliminate the Architect and Engineer, making it more or less a matter between the owner and the Contractor, this is not entirely true, because in many instances it is still necessary for the Architect or Engineer to specify for the owner (who is rarely qualified to do this for himself) exactly what the minimum and maximum condition to be met are, as well as to make the

necessary tests and check up on the Apparatus when the plant is ready for final acceptance.

It is true, however, that this method of specifying for Heating and Ventilating requirements does entirely eliminate the Quantity Surveyor who would ordinarily not be in the position to design the Apparatus necessary, and this method of specifying probably presents one of the greatest obstacles to overcome in applying Quantity Survey Service to the Heating and Ventilating Industry under existing conditions. It also affects the relation of the Quantity Surveyor to the Heating and Ventilating Contractor should he hope to serve him, because on such work as well as on many existing buildings in which no heating plant was originally installed, but due to changes in the tenant, etc., it later becomes desirable, it is obviously necessary that the Contractor maintain contact with the Engineering Department which can take these plans or go out and measure the existing building, as the case may be, and design the complete heating plant, making the estimate on same from his own design. This same Department which for reasons stated above is a necessary part of the Heating Contractors business, also makes the Quantity take-off and figures the cost of the other work on which a definite and complete plan and specification is submitted by the Architect or Engineer, and as mentioned before, the Quantity Survey Contractor to maintain this Engineering organization presents one of the greatest obstacles to overcome in applying Quantity Survey Service to the Heating and Ventilating Contractor, or to the industry under the existing conditions.

Returning to the former method of specifying, wherein complete and detailed plans and specifications are furnished the Contractors, here of course the Quantity Surveyor can make a complete take-off for the owner or Architect as is done in the construction with other branches of the construction industry, and he also has a sincere claim of merit for the contractors' sincere consideration, in addition to those with which you are already familiar.

Heating and Ventilating Contractors as a class have no found it possible to specialize on certain types of work except in the very largest cities and many of them not only do Heating and Ventilating, but also submit figures on plumbing, refrigeration, and many other kinds of mechanical equipment. Even in cities of the size of St. Louis, few Contractors make any effort to organize for special work only, and generally speaking, will submit bids on anything from a one-story residence heating plant to that of a skyscraper or a theatre. As a result of this, the general training of their organization will be on numerous small and medium size jobs, rather than on the larger type of work.

In many instances the estimators and take-off men also handle much of the buying and supervision for the jobs in execution, therefore on a large job which requires 24 hours or more of concentrated work comes up for figures the Contractor and his Engineering Department have to choose between one of two evils. Either they must neglect the supervision and general work which they do from day to day or they have to work on this large

estimate on odd times or at nights. Both of these methods have proven very costly in the past. Daily and constant supervision is absolutely necessary in order to make money on contracts already secured and the possibility of error and omission in estimates is very great when the work is done at interrupted moments or at nights after a hard day's work.

Rather than maintain a large organization which does nothing but estimating year in and year out, it certainly would seem that if a contractor had suitable service available which was dependable and on which he could call for dependable Quantity Survey it would be very much to his interest to take advantage of it particularly on the larger jobs. It would of course be necessary for the purpose of estimating labor, drayage, etc. for his Engineering Department to take off as detail an estimate as they have time to do in making up their estimate. It is not for the Quantity Surveyor to make the accurate quantities needed of such items as pipes, fittings, pipe covering and the like. While the Contractor is of course obligated to give the sub-contractors that Sub-Contractor whose bid he used in making up his estimate there are many items which can be bought on the open market and on which no sub-contract bid is needed if an accurate, and detailed list of the material under this heading is available. Here again the Quantity Surveyor's list will be of service.

Immediately after being awarded a contract, the contractor is usually besieged with offers, threats and what not, on the part of salesmen who seem to think they must secure the business then and there or never. Some of these offers, made in an atmosphere of great enthusiasm are recognized as being perhaps the best price obtainable, and if the Contractor has a very accurate take-off of pipes and fittings for instance, it puts him in a position to place the business to a great advantage. The Quantity Survey lists are also very useful in getting the material assembled after the work is started.

It is hardly necessary to stress the need of completeness in mechanical plans for either the Contractor or the Quantity Surveyor to make an intelligent estimate of the material required. Extreme accuracy in scale dimensions on plans for Heating and Ventilating are not as essential as on other lines, the reason being that practically nothing is scaled off as all quantities are stated by trade name and number with the exception of the pipe work, and in this item the size of the pipe is mentioned and only the length need be scaled and a foot more or less of pipe is not of great consequence as pipe comes in 20 ft. lengths and unless there is an error of one whole length more or less, no serious consequence or inconvenience would result.

To give some idea of the amount of detail involved in taking off all the items in connection with a heating apparatus in a 12-story office building, I am submitting herewith a list of the various items which constitute the heating plant in such a building. This list was compiled from the cost record on an actual installation. Exceptional care was used in recording figures from which this take-off was made. Because there was some talk of duplicating this building at the same time as was under construction so

these figures for all practical intents and purposes are correct.

- 2 Steam Boilers.
- 1 Electric Pump.
- 182 Radiators.
- 366 Specialties.
- 490 Ferrells and Plates.
- 305 Lengths of Pipe.
- 37 Pieces of Soil Pipe and Fittings.
- 35 Gaskets.
- 82 Caps and Flings.
- 2526 Cast Iron Fittings.
- 2389 Pipe Nipples.
- 53 Valves.
- 96 Bushings and Unions.
- 371 Miscellaneous such as Bolts, Nuts etc.
- 1312 Pieces Pipe Covering.

9209 Total.

This figure, 9209, does not cover the entire number of possibilities of error in this take-off. Take for instances of 2526 Cast Iron Fittings, each of these have at least two dimensions that must be accurately taken off, some of them such as the Tee have three sizes and a cross has four, indicating that in this item alone there are at least 7,000 readings that must be accurately taken. It is a characteristic of pipe fittings that you can not cut or weld these cast iron fittings in case they are too large. If you have a 2-in. by 1-in. Tee and you need an 1½-in. by 1-in., the former is absolutely useless for your purpose; while you might secure bushings to connect the 2-in. connection to 1½-in. you might just as well secure the correct fitting instead of the bushings as it would not take any more time. Often Bushings are prohibited by the specifications.

In conclusion I wish to state that in presenting this paper my idea has been to present a frank statement of conditions to be encountered when applying Quantity Survey to the Heating and Ventilating Industry, and I am leaving it to your judgment whether or not it can be applied and how the obstacles mentioned can be overcome. I believe that greater obstacles exist in this field perhaps than in some less technical phases of the work, where it is only necessary to calculate volumes or contents.

I am not familiar with what has been done along this line elsewhere, but I feel sure that on jobs where complete information is available the Quantity Surveys Service once it is firmly established can fill a very definite need in the industry which will result in a saving of money to both the owner, who secures the lowest possible price which can only be made when a man has absolute confidence in the accuracy of his figures as well as the contractor who will no longer then suffer from unfortunate errors in Quantities.

CEMENT PRODUCTION IN MARCH DECLINES

American Portland cement mills still show a decline in the ratio of operations to capacity as indicated by the figures for the 12 months' period ending March 31. According to statistics released by the Bureau of Mines of the Department of Commerce, the ratio of operations to capacity for the last 12 months was 58.6 per cent. The ratio percentage for the 12 months ending March 31, 1930, was 60 per cent, and for the 12 months ending March 31, 1929, was 70.9 per cent.

During the month 8,277,000 barrels were produced, 7,172,000 barrels were shipped, and stocks on hand at the end of the month were 29,827,000. Production in March, 1931, was 26.7 per cent less and shipments 18.7 per cent less than in March, 1930. Stocks at the mill were 3.3 per cent less than a year ago.

RECEIVERSHIP FOR PICKERING LUMBER COMPANY IS ASKED

Federal receivership for the \$35,000,000 Pickering Lumber Company, which operates manufacturing plants in Louisiana, Texas and California, and retail yards in the southwest, has been asked by Harold W. Woodbury, a bond holder.

The petition for a receiver was filed in Kansas City last Saturday night by Chas. F. Woodbury, attorney in the action, who said the night filing was decided upon to forestall other possible court petitions.

In an effort to keep its affairs out of the courts, a call was issued to holders of \$7,000,000 Pickering bonds, requesting that bonds be deposited with a bondholder's protective committee, to be advanced to cover interest due May 1, defaulted by the company itself.

Jesse Andrews, attorney for the concern, said the receivership application would be resisted as an unnecessary burden on the organization. The Pickering Lumber Company operates in Modoc, Calaveras and Tuolumne counties, California. It recently established large sawmill properties near Alturas, Modoc County.

RECEIVER ASKED FOR PACIFIC DOOR

Receivership in equity was asked for the Pacific Door and Sash Company in a petition filed in Federal District Court, at Los Angeles last Monday on behalf of the Donovan Lumber Company of Washington. The Pacific Door and Sash Company is owner of several lumber mills and material plants in the state.

After the filing of a consent to the receivership by C. S. Miller, president of the company, Judge James appointed W. H. McComb as the receiver, fixing the bonds at \$200,000.

The complainant company asserts the lumber company is indebted to it to the extent of \$8,733 37 and has total outstanding debts of \$1,186,102.74 with assets amounting to \$2,369,515.78.

WELDING OF BAND AND CIRCULAR SAWS

After an investigation extending over a period of several years, the Industrial Accident Commission has approved the welding of band saws and circular saws when done by an approved procedure, Will J. French, director of the State Department of Industrial Relations, announces. The recent progress in welding has advanced to where it will permit repairing of large saws at a saving of hundreds of dollars, with no decrease in safety, says French. This action follows the customary practice of the Commission in keeping its orders up-to-date with industrial progress.

The State Division of Housing and Sanitation has had for years an agreement with the United States Forest Service whereby the State officials advised of contracts let or labor camps operated on projects under Federal jurisdiction. Copies of inspection letters are furnished the U. S. officers, inasmuch as the contracts prescribe compliance with State laws, it is believed that better housing conditions will be provided for workers. Last month a similar agreement was entered into between the Bureau of Public Roads (U. S. Department of Agriculture) and the Division of Housing and Sanitation.

PUBLIC AND REAL ESTATE INTERESTS TO DISCUSS TAXES

Something is going to be done about taxes! A convention of housewives, skyscraper owners, and big and little bond holders, will be held in Baltimore, Md., on May 23 to plan an intensive drive for tax relief in cities throughout the country.

School teachers, doctors, dentists, business executives, young women and middle aged men, will come together from 35 cities in the big national meeting of the private owners of the land that has ever been held in this or any other country.

The Convention has been called by the National Association of Real Estate Boards in connection with its own annual meeting to be held in Baltimore, May 27 to 30.

Those attending the property owners' sessions will be properly elected delegates from "Property Owners Divisions" of local real estate boards, who are also members of a national property owners' organization which is the real estate association more than a year ago.

Both the local and national groups have been engaged in practical activities and research looking toward the tax relief of really owners' and the Baltimore meeting will practically expand and intensify these programs.

Delegates will describe local tax conditions and some of the successful measures already undertaken on behalf of really tax payers in various places. The Convention may add to the national program which so far has been occupied primarily with far reaching studies of current conditions in the tax field, and recommendations to all property owners may be issued by this unique body.

Judge Arthur J. Lacy of Detroit, non-Realtor, Chairman of the Property Owners' Division of the National Association of Real Estate Boards will preside at this meeting.

Prof. E. E. Leland of the University of Chicago will report on the Association's research program which has been under way for a year and which is seeking data for practical solutions of the tax problem by analyzing the success and failure of

A reduction of thirteen per cent in the accident rate for the stone-quarrying industry of the country in 1930 has just been announced by Scott Turner, director of the United States Bureau of Mines, Department of Commerce. Mr. Turner's statement is based upon reports which the Bureau of Mines has received from quarry operators that employ nearly three-fourths of the total number of men employed at all quarries in the United States. The reports cover the quarrying and crushing of stone and the manufacture of lime and cement, as well as rock-dressing done at the quarries.

Col. Charles T. Leeds, B. F. Jakobson and Allan Sedgewick, consulting engineers of Los Angeles, were appointed members of a special commission to investigate and report on the feasibility of a plan to serve the Hollywood district with water for domestic consumption without using the storage reservoir in the Weid Canyon, which was built to supply the district with water by gravity. Abandonment of the reservoir would necessitate installation of a pumping plant. The commission will act under authority of the Los Angeles water and power commission.

THE OBSERVER

What He Hears and Sees on His Rounds

The recent formation in Delaware of a cement company with authorized capital of \$19,250,000, to operate in California, has aroused considerable discussion in industrial and financial circles here, says Carl C. Wakefield, financial editor of the San Francisco Chronicle. Commenting on cement companies in the United States have capitalization in excess of \$19,000,000. Considerable mystery surrounds the new organization, which is known as San Jose Cement, Inc. No information is obtainable from Dover, Dela., on the list of officers and directors. The company has not communicated with the office of the Secretary of State in California and no request has been made to the State Corporation Commissioner for a permit to sell stock.

At the local office of the company it was stated that full information will be available within two weeks on the setup and plans of the organization. In the meantime efforts to locate any officials of the new concern have been unsuccessful.

With the cement industry in the State operating at only about 30 per cent of capacity considerable surplus has been expressed that new capital would enter the field at this time.

As a result the rumor has spread that the company has been organized to purchase and consolidate several companies now in operation.

For a number of months negotiations were on to merge a number of the leading Northern California cement companies. They never reached the point, however, where final details were worked out. And from interests associated with the companies included in the proposed merger it is learned that the formation of the new concern is in no way connected with that particular deal.

Los Angeles continues to hold first place in Pacific Coast building activities. Last month that city issued 2,329 building permits for improvements valued at \$3,413,850. San Francisco took second place with 703 permits involving an expenditure of \$1,837,433. Seattle registered third with 568 permits for work costing \$913,460 and Portland, 4th place, with 419 permits for developments aggregating an expenditure of \$527,285. Tacoma reports having issued 186 permits for work costing \$542,019 and Tacoma, 165 permits for improvements valued at \$249,560.

After a public hearing lasting more than an hour the proposed legislation restricting labor on public work to county residents was tabled last Monday by the San Joaquin County Board of Supervisors. Arguments for and against the proposal resulted in an apparent deadlock. Labor groups favoring the legislation and contractors who voiced opposition.

Creation by 1932 of a new city department of municipal utilities to take over the administration of the present water department, the city airport, the harbor front, and the department of waste removal is proposed by Jas. S. Dean, city manager of Sacramento, Dean and the engineering department are now at work on a report showing the organization of the proposed new department and what it would accomplish. The report will be made to the city council in six months.

Contracts for construction in Canada during March represented a value of \$27,311,500, an increase of 5.3 per cent over the previous month, and 12.6 per cent over March, 1930. Contracts for business building, valued at \$10,080,390, were 38.9 per cent of the total. Engineering work continued high with \$3,593,800, or 35.6 per cent. Residential took care of \$5,568,700, or 20.4 per cent, and industrial \$1,669,600, or 6.1 per cent.

The State Department of Public Works is co-operating to maintain the wage scale and to give preference to married men and residents of communities in which improvements are projected, it is announced by Walter E. Garrison, director of the department. With every contract the successful contractor is urged to adopt the policies held necessary to relieve unemployment. So far, the contractors are meeting the requests of the department, Garrison declares.

If the building code requirement for either brick or concrete construction in a "first-class" fire zone works a hardship without gaining the object of the fire zone ordinance, protection of life and property from fire, the city council may grant permission to erect buildings which accomplish the objects of the ordinance in ways other than in the manner prescribed, in the opinion of City Attorney Bernard Brennan, submitted to the Glendale city council. The opinion was given on a complaint from H. M. Lennox, that the first-class fire zone on West Glendale prevented the improvement of that street with apartment houses and bungalow courts because investors would not buy there when they learned that buildings must be of brick or concrete. He asked that frame stucco buildings be permitted.

Monterey County Builders' Exchange has voted "to maintain the present wage scale on all building construction within its control for the remainder of 1931."

Building inspectors from practically every community along the Peninsula from South San Francisco to San Jose, gathered at the Sunset Cafe in Palo Alto last week to discuss problems of mutual interest. The main topic of discussion featured an ordinance regulating the installation of gas fixtures. Another meeting will be held May 15 to discuss the proposed legislation, according to L. Harold Anderson, Palo Alto building inspector.

State highway expenditures for 1931 in California will amount to \$34,000,000, the program announced by C. H. Purcell, state highway engineer, discloses.

Construction will absorb \$27,000,000 and maintenance \$7,000,000. The figures represent increases over both 1930 and 1929, by well over \$1,000,000 and \$2,000,000, respectively.

Counties will spend \$45,000,000 on roads in addition to the state outlay, it was estimated.

In point of numbers private garages led the list of buildings for which permits were issued during 1930 in 311 of 319 cities having a population of 25,000 or more, it is shown by statistics compiled by the bureau of labor statistics, United States Department

of Labor. The total number of permits for private garages was 37,458, which was 46.4 per cent of the total number of permits for all buildings. However, these garages accounted for only 2.2 per cent of the estimated cost of all buildings for which permits were issued. The average cost was \$346 for each garage. One-family dwellings were second in the list in point of numbers with a total of 61,458, or 29.3 per cent of all buildings for which permits were issued, and accounting for 29.3 per cent of the total cost. The average cost for single-family dwellings was \$496 for each.

Vitrified clay pipe of the heavy type has been selected by the city council of Long Beach for the North Long Beach sewer system. Plans for the project have been completed by H. Paterson, city engineer, who estimates the cost at between \$600,000 and \$700,000. The project involves about ninety miles of trenching. The council contemplates using local unemployed instead of machinery in trench work.

TRADE NOTES

Hopkins Electric Appliance Company of Oakland has been incorporated. Directors are H. C. and Bertha Hopkins of Oakland, and A. W. Williford of Alameda.

Pacific Heating Company, 1451 Stevenson St., San Francisco, has opened branch headquarters at 14 Marlborough Street, San Rafael. The new branch will carry a complete line of furnaces and heating appliances.

Basalt Rock Company of Napa is reported to have closed a deal for the purchase of the Russian River Gravel Company's plant near Healdsburg in Sonoma county. The purchase price is reported to be in the neighborhood of \$100,000.

Chapman Lumber Co., of Portland, Oregon, has been appointed lumber purchasing agents for the Six Companies, Inc., contractors for the Boulder Dam project. The first order covers 2,000,000 ties for use in the construction of the railroad to the dam site.

Acquisition of the radiator valve division of the General Brass Company, Detroit, by Jas. P. Marsh & Company, manufacturers of steam specialties, heating systems and industrial instruments of Chicago, is announced by A. D. Rose, general sales manager of the latter concern. The Detroit Company's manufacturing equipment is rapidly being transferred to the Marsh plant in Chicago. The Marsh Company is a division of the Commercial Instrument Corporation.

Electricity is the popular field for aspiring young engineers of 1931. There are more students enrolled in college electrical engineering courses than in any other branch of engineering as shown in a survey of Walter J. Greenleaf, education specialist of the U. S. Department of the Interior. There are four major divisions of work available to followers of the electrical engineering: Manufacturing, power, transmission, transportation and communication.

Clyde Jenken, city engineer of Santa Ana, has submitted his resignation to Mayor John Knox. Mr. Jenken was an appointee of the former city council, only one member of which was returned at the late municipal election.

ALONG THE LINE

Tacoma Section, American Society of Civil Engineers, elected R. K. Tiffany, president, and C. E. Putnam, vice-president, at its April meeting.

Fred L. Swartz, Fresno architect, has been appointed chairman of the publicity and educational committee of the Fresno Community Chest.

Clarence L. Sturdevant, major, corps of engineers, has been named engineer of the Seattle district by the war department, to succeed Major John S. Butler, present engineer, who will be given a new assignment.

A. W. Laird, 67, vice-president and general manager of the Potlatch (Ida.) Lumber Company, and a leading figure in the lumber industry, died in Spokane, Wash., April 30, following an illness of four months.

George W. Snediger, general contractor of Berkeley, died in that city last Sunday. He had been critically ill for a week. Born in Illinois 66 years ago, Mr. Snediger went to Olympia, Wash., more than 30 years ago and after remaining there for six years went to Berkeley.

S. A. Hart, formerly sanitary engineer for the City of Berkeley, is now an associate engineer on the supervision of dams for the California State Department of Public Works at Sacramento.

Harland Bartholomew, city planning engineer, has been selected by the Jose City Council to assist in the selection of a civic center site for the proposed city, county, state and federal buildings contemplated for that city. The survey will cost \$2000 which will be borne equally by the city of San Jose and Santa Clara county.

Andrew M. Jensen, consulting engineer of San Francisco and previously city engineer of Fresno, is now engineer for the Clay Products Association of Central California in the promotion of vitrified clay pipe for sewers. Jensen will continue to act as engineer on all employments secured prior to the present connection, and will maintain his headquarters at 68 Post St., San Francisco.

Robert Nordin, 717 Mills Bldg. San Francisco, has been granted a Provisional Certificate to practice architecture. The certificate was granted at the April 23 meeting of the State Board of Architectural Examiners, it is announced by Albert J. Evers, secretary of the board.

Captain Harold E. Bowen has been appointed assistant chief of the Bureau of Engineering in the Navy Department and ordered to duty at Washington, D. C., about July 6. He now is at Puget sound navy yard.

It will be the general policy of the Federal Government for the next fiscal year and the remainder of this year to increase salaries of government employees only where such increase is required by law, according to word from Washington. The announcement said other departments of the government would follow the policy of the Interior and Justice Departments in maintaining present wage scales in the government, but would not make any increases.

BUILDING PERMIT TOTALS IN PACIFIC COAST AREA FOR MONTH OF APRIL SHOWS ACTIVITIES GAIN

The following is a report of building permit totals covering Pacific Coast States as reported by executives of municipal building departments in the cities named:

CALIFORNIA

City	April, 1931		April, 1930
	No.	Cost	
Alameda	60	\$ 42,684	\$ 181,113
Alhambra	16	27,325	24,744
Alhambra	59	111,290	231,650
Anaheim	59	19,576	32,801
Bakersfield	55	87,015	140,588
Berkeley	85	160,472	304,352
Beverly Hills	58	472,470	766,400
Burbank	33	61,780	102,365
Burlingame	16	73,491	33,674
Carmel	13	9,250	25,885
Chula Vista	9	3,500	9,800
Colton	6	19,750	32,400
Compton	23	20,885	23,665
Coronado	30	30,555	66,473
Emeryville	6	33,900	61,500
Eureka	21	29,670	42,286
Fresno	122	125,993	225,449
Fullerton	20	19,242	32,985
Glendale	27	283,545	362,660
Hayward	7	18,160	8,190
Huntington Park	34	49,200	161,185
Inglewood	43	92,070	61,860
Long Beach	313	382,775	1,061,215
Los Angeles	29	3,418,550	7,082,932
Lynwood	10	7,675	47,625
Modesto	25	19,919	48,200
Monrovia	19	4,135	26,500
Monterey	27	25,175	75,125
National City	14	6,680	3,560
Oakland	315	945,203	1,061,215
Oceanside	11	8,490	942,224
Ontario	20	13,315	25,975
Orange	11	67,042	33,475
Pacific Grove	23	46,835	23,000
Palo Alto	42	79,800	21,875
Palo Verde Estates		45,000	78,200
Pasadena	278	204,244	20,000
Petaluma	6	8,825	363,334
Piedmont	14	58,939	12,690
Pomona	30	44,044	16,969
Redwood City	29	78,390	95,311
Richmond	44	44,365	35,145
Riverside	10	44,504	63,420
Sacramento	331	471,330	454,626
Sallinas	19	117,095	110,973
San Bernardino	52	94,887	79,472
San Diego	294	547,923	554,665
San Francisco	703	1,837,433	1,356,653
San Gabriel	16	59,350	21,750
San Jose	68	109,915	59,735
San Leandro	11	42,050	47,560
San Marino	11	132,049	319,806
San Mateo	25	145,433	115,415
San Rafael	12	22,875	34,198
Santa Ana	38	51,601	122,484
Santa Barbara	71	143,378	215,452
Santa Cruz	26	33,705	44,802
Santa Monica	71	170,285	338,280
Santa Rosa	16	118,655	23,150
South Gate	39	68,500	122,790
South Pasadena		9,701	12,089
Stockton	67	102,388	234,410
Torrance	5	7,372	47,215
Ventura	12	8,975	151,626
Watsonville	23	48,385	15,925
Willow Glen	14	48,700	48,785
Totals	6,153	\$11,618,356	\$18,120,006

ARIZONA

Phoenix	50	\$ 77,737	\$ 785,698
Tucson	101	110,314	70,563
Total	151	\$ 188,051	\$ 856,261

IDAHO

Boise	76	\$ 45,321	\$ 47,911
Nampa	31	22,060	9,145
Total	107	\$ 67,381	\$ 57,056

NEVADA

Reno	59	\$ 131,850	\$ 64,900
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UTAH

Logan	8	\$ 10,390	\$ 20,400
Ogden	11	14,700	140,350
Salt Lake City	125	318,263	367,070
Total	144	\$ 343,263	\$ 527,820

OREGON

Altany	4	\$ 5,881	\$ 8,035
Ashland		3,385	8,850
Astoria	22	214,547	7,968
Corvallis		12,572	45,000
Eugene	39	55,654	22,425
Klamath Falls	48	51,420	144,050
La Grande	18	10,045	87,385
Marshfield	8	6,635	3,997
Portland	449	527,290	979,830
Salem	54	45,838	38,717
Total	709	\$ 1,140,187	\$ 1,619,187

WASHINGTON

Aberdeen	17	\$ 24,955	\$ 36,648
Bellingham	23	17,857	121,955
Everett	54	18,460	50,375
Port Angeles	13	14,200	63,500
Seattle	568	913,530	2,112,920
Spokane	186	542,619	217,918
Tacoma	165	24,800	703,495
Vancouver	25	70,565	23,004
Walla Walla	22	27,510	34,450
Wenatchee	29	19,395	107,400
Yakima	57	76,475	219,755
Total	1,159	\$ 1,974,766	\$ 3,699,020
Grand Total	8,482	\$ 15,463,844	\$ 24,844,250

CODE OF ETHICAL PRACTICE TO GOVERN BIDDING ON PRIVATE WORK WOULD INCLUDE A FEE FOR BIDDING IN PROPOSAL

A code of ethical practice for the competitive bidding and for the award of contracts on private building construction, drafted by a special committee, was presented to the Northwest Branch, Associated General Contractors of America, at their recent annual convention at St. Paul, Minn. This is one of the important auxiliaries of the A.G.C. and comprises leading contractors in all branches of construction. Twelve articles are included in the code, according to a summary by the Improvement Bulletin.

The code declares the selection of bidders to be the privilege of the architect who should choose a limited number of equally qualified bidders. It opposes advances being made for the privilege of figuring plans, but excepts deposits to be refunded when plans are returned and excepts payment for plans desired after a reasonable number have been provided. It urges that adequate time be allowed for the general contractor to take off quantities, prepare an estimate and complete a bid.

It suggests a minimum period of 8 days for figuring theatres, schools, clubs, banks and similar structures costing up to \$25,000, and increases on a classification schedule to 30 days for structures costing in excess of \$700,000. Hotels, office buildings and apartments in the same range of cost start with 7 days and increase to 20, as do factories and loft buildings.

The time of receiving bids should not be earlier than 2 p. m. and should not be on Saturdays, Mondays, legal holidays nor on days following legal holidays. Certified checks and bidders' bonds are stated not to be necessary to guarantee bids of responsible bidders, and upon private work the architects and owners should select bidders who are responsible.

Alternates should be limited to those absolutely essential to the award of the job.

Unit prices should not be requested from competing bidders since they are difficult to quote accurately for units of concrete, excavation, forms, partitions, etc., unless the amount and character of such units and the point of sequence in a construction operation at which they will be required, is known in advance.

Refiguring Work

When bids have been opened and changes in the plans are desired, all competitors should recognize the right of the low bidder to negotiate with the owner or architects for such changes. It is declared to be unethical, unjust and detrimental to the construction in-

dustry when a general contractor discloses to architects, owners or others the amounts of sub-bids or quotations obtained in confidence for the purpose of preparing a bid upon a general contract.

When refiguring work, when original bids have been rejected and new figures are asked, only the original bidders should be invited to bid. No refiguring should take place unless major changes shall have been made in either the plans or specifications, or unless at least three months have elapsed since the original bids were submitted. When refiguring occurs, bidders should not take advantage of their competitors by making alterations in their bids disproportionate to the changes in the plans and specifications, so as to unfairly change the relative status of the original bids. It is declared that for one bidder to reduce his figure after opening so as to deprive a lower bidder of his legitimate advantage, would defeat the principle of fair competition. For an owner to permit a competing bidder to do this is unfair.

Low bidders should not have any advantage other than that which results legitimately from their low bids and any competitor should have the right to take the contract at the price bid by the low bidder.

Drafting of Contracts

All of the construction work should be included in the general contract, since one of the principal functions of the general contractor is that of manager. That function cannot be fully exercised unless he has complete control of all forces engaged upon the building, so that the work may be properly co-ordinated and efficiently carried forward. The execution of other contracts for labor and material upon a building simultaneously with the work of the general contractor is deemed an interference with, and a hindrance to, efficient and economical performance of the work of the general contractor, and increases the cost of his work.

The form of contracts should be the standard documents of the American Institute of Architects, fourth edition.

Monthly payments should be not less than 90 per cent of the value of labor and materials. When no contract is awarded, each invited bidder should be compensated on the basis of one-twentieth of one per cent of the low-price bid, with a maximum charge of \$25. This would carry into effect the policy of sharing with the owner a portion of the expense incurred in compiling a bid.

HERE—THERE EVERYWHERE

To lessen the danger of collisions, the Kansas State Highway Commission is having all of its road grading and maintenance machinery painted an aluminum color. While members of the commission can see no reason for motorists running into the machines, as they are never left on the highway after working hours, several accidents occurred last year. Several workmen were injured in the accidents, all of which happened during the working hours.

The annual meeting of the Builders' Exchange of Contra Costa County, with headquarters at Richmond, will be held June 19, it is announced by W. A. Brown, secretary, at which time the election of officers to serve for the ensuing year will be held.

Stockton is making preliminary arrangements for the annual meeting of the California section of the American Water Works Association to be held in that city in October.

Governor George White of Ohio, has signed the "yellow dog" labor contract bill which makes illegal any labor contract which attempts to forbid either employe or employer from organizing.

A tax of 1/2 mill per kilowatt-hour on all electrical energy generated in the State of Idaho is levied by a bill recently passed by the Idaho legislature.

Today we take our hats off to—The State Senate, for without a dissenting vote, that body passed Senator Fellon's San Francisco Bay bridge "loan" bill.

This carries an appropriation of \$500,000 to be advanced to the California toll bridge authority by the State. It will meet the preliminary engineering costs applied to the first actual work on the great enterprise. The "loan," it is provided, will be repaid into the State treasury from the first proceeds from sale of the revenue bonds which have been worked out to be issued for the construction costs of the project. The estimated cost of the project is placed at \$75,000,000.

In anticipation of the enactment of the bill by the Legislature, the department of public works is proceeding with surveying and engineering work at Goat Island.

Research facilities of the Pittsburgh Testing Laboratory are the subject of a 14-page bulletin discussing specialized services available for research leading to product development, improvements, modern marketing and special investigation. It may be obtained from the laboratory at Pittsburgh, Pa.

It has just been announced by the division of simplified practice of the National Bureau of Standards that simplified practice recommendation R1-29 on Vitriified Paving Brick has been reaffirmed by the standing committee of the industry, without change, for another year. This recommendation, which includes plain wire-cut (vertical fiber lugless) brick, as usually laid; wire-cut lug brick (Dunn), and pressed lug brick, has been instrumental in reducing the number of sizes and varieties from 66 to 6, or 91 per cent.

Building News Section

APARTMENTS

Contracts Awarded.
APARTMENTS Cost, \$15,000
 IN FRANCISCO. SW Forty-third
 Ave. and Geary St.
 vo-story and basement frame and
 stucco apartments (4 apts.)
 Owner—Mrs. E. Petersen, 1625 Balboa
 St., San Francisco.
 Architect—A. H. Larsen, 447 Sutter
 St., San Francisco.
 Contractor—Maas & Sauer, 336 Church
 St., San Francisco.
 Electric—Unger Electric Co., 290 9th
 St., San Francisco.
 Rough Hardware—F. G. Norman &
 Sons, 890 Valencia St., S. F.
 Locks—Schlage Lock Co., 20 Blaken
 Ave., San Francisco.
 Lastering—Chris Berg, 580 Market
 St., San Francisco.
 Pick—Huck & Hoffmeyer, 666 Mis-
 sion St., San Francisco.
 Plumber—J. H. McCallum, 748 Bryant
 St., San Francisco.
 Pl Work—Waterfront Sash & Door
 Co., 2nd and Alice Sts., Oakland.
 Plaster—W. P. Fuller & Co., 301 Mis-
 sion St., San Francisco.
 Painting—W. G. Thompson, 336
 Church St., San Francisco.
 Sheet Metal—J. Delucchi, 1526 Powell
 St., San Francisco.
 Roofing—H. & H. Roofing Co., 2734
 Army St., San Francisco.
 Plumbing and Heating—C. Petersen
 Co., 390 6th St., San Francisco.
 Fire Escapes—Kern Sons, 517 6th
 St., San Francisco.
 Hardwood Floors—Carl Stendell, 41
 Cumberland St., San Francisco.
 Lumber—E. Phillips, 41 Sheridan St.,
 San Francisco.
 Concrete—Carl Frank Co., 305 Bocana
 St., San Francisco.
 Refrigerators—Frigidaire Sales Corp.,
 16th and Harrison Sts., S. F.
 Sash—Golden Gate Iron Works, 1541
 Howard St., San Francisco.
 Wall Beds—Marshall & Stearns Co.,
 7 Phelan Bldg., San Francisco.
 Boxes—Albatross Steel Furniture
 Co., Ltd., 557 Market St., S. F.

Completing Plans.
APARTMENTS Cost, \$250,000
 OAKLAND, Alameda Co., Cal. E-
 12th St. near Third Avenue.
 One-story Class A reinforced con-
 crete apartments and stores (56
 2 and 3-room apts., 1 5-room apt.)
 (vacuum steam heating).
 Owner—A. M. Newton, 1150 First Ave.,
 Oakland.
 Plans by Thomas Keenan, 1440 Broad-
 way, Oakland.
 Plans ready for bids in about two
 weeks. Mr. Newton is interested in
 receiving data on interior partitions,
 all covering and interior decoration.

Bids Being Taken.
APARTMENTS Cost, \$150,000
 IN FRANCISCO. Walnut and Clay
 Streets.
 Two-story and basement class C rein-
 forced concrete and steel frame
 apartments (30 2- 3- and 4-room
 apts.)
 Owner and Builder—I. Epp, 4745 Geary
 Street.
 Architect—H. C. Baumann, 251 Kear-
 ny Street.

Plans Being Completed.
APARTMENTS Cost, \$15,000
 IN FRANCISCO. Location With-
 held.

Three-story and basement frame and
 stucco apartments, tile roof, steam
 heat, tile baths (six 2-room apts.)
 Owner and Builder—R. H. Bobb, 917
 Hobart Bldg.
 Architect—Withheld.
 To be ready for segregated bids
 next week.

Plans Being Prepared.
APARTMENTS Cost, \$45,000 each
 BURLINGAME & SAN MATEO, San
 Mateo Co., Cal.
 Two three-story and basement frame
 and stucco apartment buildings.
 (steam heat, composition tile roof-
 ing) (15 2 and 3-room apts. each).
 Owner—Withheld.
 Architect—Edwards & Schary, 605
 Market St., San Francisco.

Plans Being Completed.
APARTMENTS Cost, \$15,000
 SAN FRANCISCO. Church St. S 18th.
 Three-story and basement frame and
 stucco apartments, tile roof, steam
 heat, tile baths (six 2-room apts.)
 Owner and Builder—R. H. Bell, 917
 Hobart Bldg.
 Architect—Withheld.
 To be ready for segregated bids next
 week.

Contract Awarded—Sub-Bids Being
 Taken.
APARTMENTS Cost, \$70,000
 BERKELEY, Alameda Co., Cal. 1717
 Oxford Street.
 Three-story and basement frame and
 stucco apartments (30 2- 3- and
 4-room apts.)
 Owner—M. Baker, Artico Bldg., Berk-
 eley.
 Architect—Clay N. Burrell, American
 Bank Bldg., Oakland.
 Contractor—Wm. Van Aalst, 2039 34th
 St., Oakland.
 Part tile and composition roofing,
 steam heating system.

BONDS

ROSEVILLE, Placer County, Cal.—
 Trustees of the Roseville Elementary
 School District will call a special
 meeting shortly to consider a bond is-
 suance with which to secure funds to
 finance erection of new school build-
 ings.

SKILSAW Portable Electric Hand
 Saws (4 models).
SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attach-
 ments.
SYNTRON Portable Electric Ham-
 mers (4 models, motor-
 less).

MALL Flexible Shaft Machines (50
 models).
 Electric Drills, Grinders, Buffers,
 Routers, Lock Mortisers.

PETER H. NELSON
 Labor Saving Portable Electric
 Tools.

1248 Mission St. Underhill
 San Francisco 7862
 SALES . SERVICE . RENTALS

FALL RIVER MILLS, Shasta Co.,
 Cal.—Election will be held May 15 in
 the Fall River Mills School District to
 vote bonds of \$8,000 to finance erec-
 tion of a new school. Trustees of the
 district are Mrs. Beatrice A. Lee, C.
 L. Straub and Roy A. Shaffer.

LODI, San Joaquin Co., Cal.—Election
 will be held May 23 in the Alpine
 School District to vote bonds of \$15-
 000 to finance erection of a new school.
 Trustees of the district are: L. K.
 Marshall, Ed. Preasler and John
 Weiderich.

CHURCHES

Plans Being Figured.
CHURCH Cost, \$20,000
 SACRAMENTO, Sacramento Co., Cal.
 SW 38th St. and 4th Ave. (72x125)
 One-story reinforced concrete and
 stucco church (seat 250; tile roof).
 Owner—1st English Lutheran Church,
 Sacramento.
 Architect—Wm. E. Coffman, Forum
 Bldg., Sacramento.

Plans Being Completed.
CHURCH Cost Approx. \$100,000
 SANTA BARBARA, Santa Barbara
 Co., Cal.
 One-story reinforced concrete and
 steel church, tile roof (to seat 800)
 Owner—First Church of Christ Sci-
 entist.
 Architect—Henry H. Gutterson, 526
 Powell St., San Francisco.
 Bids will be taken about May 15th.

Plans Being Figured—Bids Close May
 26, 7: 30 P. M.
CHURCH Cost, \$25,000
 NAPA, Napa Co., Cal. SE Third and
 Pachett Streets.
 Steel frame and hollow tile church
 (composition roof).
 Owner—Episcopal Church, Napa.
 Architect—C. Leroy Hunt, Napa.
 W. C. Keig, Napa, is chairman of
 the building committee.

SANTA BARBARA, Cal.—First Con-
 gregational church, Rev. C. M. Calder-
 wood, pastor, has purchased property
 at the corner of State and Padre Sts.
 as a site for a new edifice.

FACTORIES AND WARE- HOUSES

Plans Being Figured—Bids Close May
 15th.
WAREHOUSE Cost, \$20,000
 OAKLAND, Alameda Co., Cal. South
 Seventh St. E Fallon St.
 One-story concrete warehouse.
 Owner—George R. Bormann Steel Co.,
 4th and Grove Sts., Oakland.
 Engineer—H. H. Bohn, Financial Cen-
 ter Bldg., Oakland.

Plans Being Prepared.
WISE SUPERSTRUCTURE
 Cost, \$250,000
 OAKLAND, Alameda Co., Cal. Outer
 Harbor Terminal.
 Two-story reinforced concrete ware-
 house ("C") superstructure, 210x
 280 feet.
 Owner—City of Oakland Port Com-
 mission (G. E. Hegardt, Secretary)
 424 Oakland Bank Bldg., Oakland.
 Plans by Eng. Dept. of Owner.
 Contract for pile foundations under
 a separate contract, bids for which
 will be opened on May 11, as previ-
 ously reported, in these columns.

Contract Awarded.
SPRINKLER SYSTEM
 Cont. Price, \$4397
 OAKLAND, Alameda Co., Cal. West
 14th Street Pier.
 Sprinkler system for one-story steel
 frame warehouse (518x100 feet;
 Warehouse AA).
 Owner—City of Oakland (Port Com-
 mission), 424 Oakland Bank Bldg.,
 Oakland.
 Plans by Eng. Dept. of Owner.
 Lessee—Rosenberg Bros., Third and
 Bancroft Sts., Oakland.
 Contractor—James Pinkerton, 927
 Howard St., San Francisco.
 Steel frame and wooden girts and
 studs, galvanized iron covering, con-
 crete floor on earth flooring.

IRVINGTON, Alameda Co., Cal.—
 Warehouse of Clarence Salz destroyed
 by fire May 5. Damage, including
 stocks stored, is estimated at \$100,000.

Contract Awarded.
MACHINE SHOP, ETC. Cost, \$3883
 SALINAS, Monterey Co., Cal.
 Corporation Yard machine shop and
 storage quarters.
 Owner—City of Salinas.
 Plans by Howard Cozzens, city engi-
 neer.
 Contractor—F. C. Carlson, 336 Lincoln
 Ave., Salinas.

Contract Awarded.
LAUNDRY Cost, \$10,900
 MOUNTAIN VIEW, Santa Clara Co.,
 Cal. Villa St., bet. Bryant and
 Franklin Sts.
 One-story concrete steam laundry.
 Owner—French Steam Laundry Co.,
 Mt. View.
 Private Plans.
 Contractor—Carl Lindholm & Sons,
 Church and Castro Sts., Mt. View

May 4, 1931

Contracts Awarded.
PRODUCE PLANT Cost, \$15,000
 MONTEREY, Monterey Co., Cal.
 One-story reinforced concrete produce
 plant.
 Owner—Monterey Produce Co., Mont-
 erey.
 Architect—A. W. Story, Pajaro Val-
 ley Bank Bldg., Watsonville.
 Contractor—C. W. Dempsey, Pacific
 Grove.
 Plastering—J. E. Eckett, 216 16th St.,
 Pacific Grove.
 Electrical—J. N. Younkins, 239 Locust
 St., Pacific Grove.
 Plumbing—Pierce & Towle, 410 Alvar-
 ado, Monterey.

Roofing—Tynan Lumber Co., Frank-
 lin and Cortez Sts., Monterey.
 Following is a complete list of bids
 received:
 C. W. Dempsey, Pacific Grove.....\$ 6,986
 H. D. Coon, Carmel..... 7,490
 Ray Brittenbeck, Monterey..... 7,550
 Wm. Sweeney, Monterey..... 7,620
 W. H. Hooks, Monterey..... 7,994
 M. J. Murphy, Carmel..... 8,023
 George Dean..... 8,300
 Fred McCrary, Monterey..... 8,537
 Ralph Sharp, Pacific Grove..... 8,748
 L. Geyer, Monterey..... 9,069
 C. H. Lawrence..... 9,213
 John Tauffer, Monterey..... 15,417

Plastering
 J. E. Eckett, 216 16th St., Pacific
 Grove.....\$ 728
 Wm. Ingram, Monterey..... 1,176
 J. R. Brady, Monterey..... 1,260
 F. Overhulse, Monterey..... 1,273
 H. McGuire, Monterey..... 1,375

Electric Work
 J. N. Younkins, 239 Locust St.,
 Pacific Grove.....\$1,150
 Wm. McConnel, Monterey..... 1,164
 Langlais Electric Co., S. F..... 1,293
 Dan Searle, Monterey..... 1,364

Plumbing
 Pierce & Towle, 410 Alvarado
 St., Monterey.....\$1,006
 Phillips Heating & Ventilating
 Co., Monterey..... 1,092

D. McDonald..... 1,193

Roofing
 Tynan Lumber Co., Franklin and
 Cortez Sts., Monterey.....\$750
 Work Lumber Co., Monterey..... 770
 Fred Hayden..... 829

LINDEN, San Joaquin Co., Cal.—
 Directors of the San Joaquin Valley
 Walnut Growers Association will hold
 a meeting at Stockton next Friday to
 vote on the proposal of constructing
 an addition to the \$45,000 packing
 plant erected in Linden in 1923 and
 which now falls to meet the demands
 of the association. Raymond Miller is
 president of the association.

Contract Awarded.
BUILDING Contract price, \$18,965
 SAN FRANCISCO. W Beale Street
 SAN FRANCISCO. Mission and Market Sts.
 One-story and basement class C in-
 dustrial building.
 Owner—F. H. and Amanda Ohe, 765
 Market St.
 Architect—J. E. Krafft & Sons, Phelan
 Building.
 Contractor—Richard Harms, 1217 Stan-
 yan Street.
 Pile foundations.

Contract Awarded.
FACTORY Cost, \$—
 GOLETA, Santa Barbara Co., Calif.
 First unit of airplane factory.
 Owner—General Western Aero Corp.
 Plans by Eng. Dept. of Owner.
 Contractor—A. J. Roberts, Santa Bar-
 bara.

LOS ANGELES, Cal.—Pacific Coast
 steel Corp., subsidiary of Bethlehem
 Steel Corp., has purchased an addi-
 tional 17 acres of land in the vicinity
 of Slauson Ave and Atlantic Blvd.,
 giving the steel company a total of 57
 acres for plant improvements. Al-
 though no definite plans have been
 announced, it is understood that
 probably another open hearth will be
 installed, an angle mill and an office
 building erected, and forge pressing
 facilities enlarged. The general offices
 of the company are located at 20th
 and Illinois Sts., San Francisco, and
 the Los Angeles office in the Pacific
 Finance Bldg.

Bids Opened
WAREHOUSE Cost, \$—
 OAKLAND, Alameda Co., Cal. West
 14th Street Pier.
 Structural steel for 1-story steel frame
 warehouse (518x100-ft; Warehouse
 AA).
 Owner—City of Oakland (Port Com-
 mission), 424 Oakland Bank Bldg.,
 Oakland.
 Lessee—Rosenberg Bros., 3rd & Ban-
 croft, Oakland.
 Plans by Eng. Dept. of Owner.

Steel frame and wooden girts and
 studs, galvanized iron covering, con-
 crete floor on earth flooring.

Following is a complete list of the
 bids received:
 (a) Timber studs & girts & covered
 with corrugated iron.
 (b) concrete walls.
 S. S. Herrick, 18th & Campbell Sts.,
 Oakland..... (a) \$14,440 (b) 12,870.
 Golden Gate Iron Works, San Fran-
 cisco..... (a) \$14,950 (b) \$13,024
 California Steel Co.,
 Oakland..... (a) \$15,460 (b) \$13,638
 Minneapolis Moline Co., Los An-
 geles..... (a) \$15,838 (b) \$13,395
 Pacific Coast Engineering Co. Oak-
 land..... (a) \$15,963 (b) \$14,169
 Judson Pacific Co.,
 Oakland..... (a) \$16,345 (b) \$14,638
 Moore Drydock Co.,
 Oakland..... (a) \$16,500 (b) \$14,830
 Independent Iron Works,
 Oakland..... (a) \$17,300 (b) \$14,900
 Bids held under advisement.

To Be Done By Day's Work.
BUILDING Cost, \$15,4
 ALAMEDA, Alameda Co., Cal. 15
 Everett Street.
 Two-story brick building.
 Owner—Alameda Rug Works, 2006 J.
 errett St., Alameda.
 Plans by Owner.
 Mgr. of Const.—J. A. Osterdock, 28
 Everett St., Alameda.

Bids Opened
WAREHOUSE Cost, \$—
 OAKLAND, Alameda Co., Cal., W
 14th Street Pier.
 One-story steel frame warehouse (518
 x 100 ft.; Warehouse AA).
 Owner—City of Oakland (Port Com-
 mission), 424 Oakland Bank Bldg.,
 Oakland.
 Lessee—Rosenberg Bros., 3rd & B-
 croft, Oakland.
 Plans by Eng. Dept. of Owner.

Steel frame and wooden girts and
 studs, galvanized iron covering, con-
 crete floor on earth flooring.

Following is a complete list of b
 bids received:

(a) Timber studs & girts & cover
 with corrugated iron.
 (b) concrete walls.
 E. T. Lesure,
 Oakland..... (a) \$57,560 (b) \$76,1
 R. W. Littlefield,
 Oakland..... (a) \$60,435 (b) \$74,0
 A. Frederick Anderson,
 Oakland..... (a) \$61,378 (b) \$74,7
 H. J. Christensen,
 Oakland..... (a) \$62,437 (b) \$70,2
 Villadsen Bros., San
 Francisco..... (a) \$64,750 (b) \$76,1
 E. T. Leitter & Son,
 Oakland..... (a) \$65,837 (b) \$74,8
 Schuler & McDonald,
 Oakland..... (a) \$71,000 (b) 80,0
 Frederickson & Watson,
 Oakland..... (a) \$76,600 (b) \$87,0
 Bids held under advisement.

FLATS

Sub-Bids Being Taken.
FLATS Cost, \$15,0
 SAN FRANCISCO. Santiago St. at
 19th Avenue.
 Two-2-story and basement frame ai
 stucco flats.
 Owner and Builder—F. M. Stich, 1
 Taraval Street.
 Architect—George Cantrell, 45 2nd S

Contract Awarded.
FLATS Cost, \$10,0
 SAN FRANCISCO. E Divisadero S
 N Francisco St.
 Two-story and basement frame ar
 stucco residence (2 flats).
 Owner—B. S. West, 1274-A Green St
 San Francisco.
 Plans by H. Pappenhause, 595 W
 Maria St., San Francisco.
 Contractor—H. Pappenhause, 59
 Victoria St., San Francisco.

GARAGES AND SERVICE STATIONS

To Be Done By Day's Work By Own
SERVICE STATION, ETC. Cost, \$300
 SAN FRANCISCO. SE 7th Ave. an
 Lincoln Way.
 One-story steel frame service station
 1-story steel frame canopy and 1
 story tire and rest room.
 Owner—Standard Oil Co. of California
 225 Bush St.
 Plans by Eng. Dept. of Owner.

Plans Being Completed.
SERVICE BLDG. Cost, \$50,000
 VALLEJO, Solano Co., Cal. NW So-
 nomo and Main Sts. (130x150 ft.)
 Two-story automobile plant and se-
 vice building (probably brick con-
 struction).
 Owner—Acme Motor Co. (Vallejo For-
 dealers), Vallejo.
 Architect—Claude Barton, 522 Grant
 Ave., Oakland.

Bids will be taken in two or three weeks.

GOVERNMENT WORK AND SUPPLIES

SAN FRANCISCO—Until May 19, 10 a. m., under Circular No. 923-31-286, bids will be received by Quartermaster Supply Officer, S. F. General Depot, Fort Mason, to furnish thirty-six gas ovens, 15 with right hand ovens and 21 with left hand ovens, designed and operated on new natural gas, 1150 B.T. Further information obtainable on above.

Complete Bid Listing.
ASTORIA, Ore. Cost, \$—
AKLAND, Alameda Co., Calif. 12th, 13th, Alice and Jackson Streets, reoperation of class A postoffice. Owner—United States Government. Plans by Supervising Architect, Treasury Department, Washington, D. C.

- (a) sandstone; (b) terra cotta.
- E. Parker, 135 South Park, San Francisco.....(a) \$588,000
-(b) 545,200
- Arch Bros., St. Louis.....(a) 593,000
-(b) 555,000
- Lawdiddle Const. Co. S. F.....(a) 594,400
-(b) 557,300
- Robert C. McKee, L. A.....(a) 607,500
-(b) 567,000
- George Petersen, San Leandro.....(a) 607,900
-(b) 556,900
- Wright & Davidson, S. F.....(a) 609,617
-(b) 567,247
- McDonald & Kahn, S. F.....(a) 624,999
-(b) 589,999
- Arrett & Hilp, S. F.....(a) 607,900
-(b) 571,200
- Johnson Bros., S. F.....(a) 630,660
-(b) 593,340
- Union Const. Co., S. F.....(a) 631,000
-(b) 594,000
- Hms Helmers, Inc., S. F.....(a) 640,400
-(b) 603,300
- Wault and Detrick, Inc., Canton, Ohio.....(a) 642,931
-(b) 604,000
- W. Littlefield, Oakland.....(a) 648,990
-(b) 616,500
- Engineering Const. Co., Minneapolis, Minn.....(a) 653,374
-(b) 622,374
- E. Campbell, L. A.....(a) 660,000
-(b) 629,000
- W. MacDonald Const. Co., St. Louis.....(a) 664,195
-(b) 640,000
- Wendroff Const. Co., L. A.....(a) 725,000
-(b) 665,000
- Wahler & McDonald, Inc., Oakland.....(a) 1,000,000
-(b) 945,000

As previously reported, contract for foundation work on this structure awarded in January to George Petersen of San Leandro, at \$38,480.

SAN FRANCISCO—O. G. and S. H. Ritchie, 154 North 11th St., San Jose, \$1375 submitted low bid under Circular No. 5 to Signal Officer, 9th Corps Area, Presidio, May 6 for installation submarine cable between Lincoln Park, San Francisco and Eaker Beach, Winfield Scott. Complete list of bids follow:
 G. and S. H. Ritchie, San Jose.....\$1375

- W. Electric Co., S. F.....1700
 - W. Electric Mfg. Co., S. F.....1725
 - W. Thibits Co., S. F.....1700
- Taken under advisement.

PEARL HARBOR, T. H.—Until 11 a. m., under Specification No. 6371, bids will be received by the Chief of Yards and Docks, Navy Department, Washington, D. C., to construct submarine escape training tank at the Naval Operating Base (Submarine Base), Pearl Harbor, T. H. The work includes a structural

steel tank, and equipment house at the base of and adjoining the tank; and a loft building at the top of the tank. Plans may be obtained on application to the Bureau, to the commandant, Twelfth Naval district, Hamilton street, San Francisco. Deposit of a check or postal money order for \$25, payable to the Chief of the Bureau of Yards and Docks, is required as security for the safe return of the drawing and specifications. G. A. McKay is acting chief of Bureau. (4754) 1st rep. Feb. 17, 1931.

SAN FRANCISCO—Until May 14, 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason, for purchase of gas water boiler and gas storage heater for Officers' Quarters No. 8 at Fort Miley. Specifications obtainable from above.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Dept., Washington, D. C., to furnish and deliver miscellaneous supplies and equipment for Navy Yards and Stations as noted in the following schedules, further information being available from the Navy Purchasing Officer, 100 Harrison St., San Francisco:

- Bids Open May 19**
- Western yards, 8 electrically operated vegetable-peeling machines and spares; sch. 5635.
- Western yards, attachment plugs, switches, snap sockets, incandescent lamp; sch. 5645.
- Mare Island, 500,000 lbs. cotton rags; sch. 5647.
- Western yards, searchlight carbons, motion picture machine carbons, carbon brushes; sch. 5648.
- Western yards, fuses and fuse elements; sch. 5646.
- Mare Island, 500 watergate glass-ess; sch. 5657.
- Puget Sound, 60 folding block type deck mats; sch. 5676.

Bids Open May 26
 East and west yards, amplifying and control equipment and spares; sch. 5658.

Contract Awarded.
ELEVATOR SHAFT. Cont. price \$9377
MARE ISLAND, Cal.
 Furnish and install elevator shaft in Mare Island Navy Yard Hospital. Owner—United States Government. Plans by Bureau of Yards and Docks, Navy Dept., Washington, D. C.
 Contractor—Sullivan & Sullivan, 3927 39th Ave., Oakland.
 The shaft and lobby will be built on the exterior of the building extending from the ground floor to the roof with the openings at five floors. The work involves excavation, concrete work, steel framing, hollow tile, stucco, wood roof, framing, tile roofing, electric work and heating.
 Contract awarded on propositions 1 and 2.

SAN FRANCISCO, Calif.—Kamlan Fence Co., 351 Bryant Street, at 1-679-60 submitted lowest bid to constructing Quartermaster, Fort Mason, for repairs to wire fencing at Fort Funston.

- Following is a complete list of the bids received:
 Kamlan Fence Co.....\$1,679
 Standard Fence Co.....1,995
 Anchor Post Fence Co.....2,481
 Receiver Co. of Wickwire Spen-ner Co.....2,831
- Bids held under advisement.

BOULDER CITY, Nevada—Pickering Bros., Salt Lake City, submitted the low bid to the U. S. Bureau of Reclamation, Las Vegas, Nev., April 23, at \$2300 for the construction of a telephone line between Boulder City, Nev., and the Hoover Dam site, Boulder Canyon Project, Arizona-California-Nevada. The work is located near

Las Vegas on the Los Angeles & Salt Lake Ry. of the Union Pacific System. The line will be about 6.5 miles long and will consist of a two-wire line, supported by butt-treated timber poles with one 16-pin cross arm. The government furnishes certain materials. No. 519-D. R. F. Walter, chief engineer.

Bids Opened.
IMPROVEMENTS. Cost, \$—
SAN LUIS OBISPO, San Luis Obispo Co., Cal. National Guard Training Camp.

Nine kitchens and mess halls; 4 lavatory buildings; 280 tent floors; extension of sewer, water and electric systems.

Owner—United States Government. Plans by U. S. Property and Disbursing Officer for California, 128 State Capitol Bldg., Sacramento.

Following is a complete list of the bids:
 (a) mess halls; (b) lavatories; (c) tents; (d) sewer system; (e) electric work.

- E. G. Bowen Co., 3680 Beverly Blvd. Los Angeles (a) \$17,927; (b) \$13,127; (c) \$4,969; (d) \$3,104; (e) \$728.
- Geo. P. Williams, Oakland, (a) \$18,453; (b) \$14,946; (c) \$5,750; (d) \$1,940; (e) \$750.
- R. F. Burton, (a) \$20,426; (b) \$13,988; (c) \$4,214; (d) \$1,509; (e) \$670.
- Theo. Maine, San Luis Obispo (a) \$20,572; (b) \$13,376; (c) \$3,804; (d) \$1,787; (e) \$725.
- Fred H. Dequine (a) \$21,242; (b) \$25,363; (c) \$6,488; (d) \$1,691; (e) \$6,488.

Sullivan & Sullivan Oakland (a) \$21,997; (b) \$13,242; (c) \$2,225; (d) \$1,810; (e) \$705.

W. J. Smith, Long Beach (a) \$22,026; (b) \$14,032; (c) \$4,568; (d) \$1,650; (e) \$663.

Johnson & Hansen, (a) \$22,545; (b) \$14,968; (c) \$4,193; (d) \$4,389; (e) \$787.

F. & E. Const. Co. (a) \$22,944; (b) \$14,933; (c) \$7,262; (d) \$2,493; (e) \$1,706.

George Maurer, Piedmont, (a) \$23,492; (b) \$14,543; (c) \$4,377; (d) \$2,061; (e) \$777.

Richard Hodgson & Son, Porterville (a) \$23,850; (b) \$14,321; (c) \$4,222; (d) \$2,360; (e) \$722.

F. J. Westlund, Oakland (a) \$24,720; (b) \$15,980; (c) \$4,584; (d) \$955; (e) \$715.

David Nordstrom, Oakland (a) \$25,243; (b) \$14,356; (c) \$4,519; (d) \$2,311; (e) \$1,428.

F. J. McIntyre, Oakland (a) \$38,002; (b) \$19,314; (c) \$7,933; (d) \$2,867; (e) \$1,254.

Morrow Electric Co., San Luis Obispo, (a) \$886.
 Bids held under advisement.

Plans Being Figured—Bids Close June 8th.
ASTORIA, Oregon. Cost, \$225,000
 Demolition of old and construction of new postoffice, custom house, etc. Owner—United States Government. Architect—Supervising Architect, Treasury Dept., Washington, D. C.

Bids will be received by the Supervising Architect, Treasury Department, Washington, D. C. Plans obtainable from above office on deposit of \$25, returnable.

BOULDER CITY, Nevada—Edwards Manufacturing Co., Cincinnati, Ohio, submitted the low bid to the U. S. Bureau of Reclamation, Denver, Colo., April 28, at \$1625 f.o.b. shipping point, for the furnishing of structural steel frames for two pump houses for the Boulder City Water Supply System, Boulder City, Nev., under specification No. 518-D.
 The Apex Steel Corp., Ltd., P. O. Box 289, Sta. C, Los Angeles, submit-

ted the lowest bid f.o.b. destination. The bid was \$2140.

The buildings are designated as Pumping Plants Nos. 1 and 2, and will each be 29 ft. x 15 ft. 9 in. in area, and 19 ft. 8 in. inside height between concrete floor and roof trusses.

Plant No. 1 will have transite roof and louvres and transite corrugated siding. Plant No. 2 will have clay tile roofing, 18-inch galvanized iron louvres and galvoco siding. The bids were taken under advisement by R. F. Walters, chief engineer.

Bids Opened. \$115,000 Appropriated SAN FRANCISCO, Letterman General Hospital.

Three-story reinforced concrete addition to Ward No. F-1 and two-story reinforced concrete ward building (formerly Wards 10 and 11).

Owner—United States Government. Architect—Constructing Quartermaster, Fort Mason.

Rubber floors, terrazzo floors, tile wainscoting, radio system, electric fixtures, nurses' call system; all modern hardware, sterilization system, electric passenger elevator, modern hospital plumbing and considerable marble work.

Ward F-1

(1) general work excepting plumbing, heating and electric work.
(2) deduct if connecting corridor to basement is omitted.

(3) deduct, if tile wainscoting in basement corridor is omitted.

(4) plumbing.

(5) deduct if all plumbing in basement dressing room and three sterilizers are omitted.

(6) heating.

(7) electric work.

(8) deduct if plastering, painting, tiling, terrazzo on all doors and jambs except exterior, in basement is omitted.

(9) deduct if all plumbing fixtures, sterilizers and marble partitions in basement is omitted.

(10) deduct if all radiators in basement are omitted.

(11) deduct if all electric fixtures and nurses' call fixtures and radio fixtures are omitted in basement, but all conduits and wiring put in place.

Construction of reinforced concrete addition (Ward G-2) to Isolation Ward G-1, and for alterations to present Ward G-1.

(12) general work excepting plumbing, heating and electric work.

(13) plumbing.

(14) heating.

(15) electric work.

(16) electric elevator.

Frank J. Reilly, 666 Mission Street, (1) \$37,992 (2) \$868 (3) \$240 (8) \$5,000 (12) \$42,892.

Mission Concrete Co. (1) \$37,992 (2) \$1,460 (3) \$1000 (8) \$4,000 (12) \$43,973.

Wm. Spivock (1) \$35,240 (2) \$1,250 (3) \$270 (8) \$4,500 (12) \$42,900.

J. Harold Johnson (1) \$39,987 (2) \$2,209 (3) \$200 (8) \$5,072 (12) \$44,837.

H. L. Petersen (1) \$40,600 (2) \$1,325 (3) \$246 (8) \$2,670 (12) \$44,820.

Jacks & Irvine (1) \$40,855 (2) \$1,310 (3) \$219 (8) \$5,211 (12) \$47,550.

Mahony Bros. (1) \$40,970 (12) \$46,474

DeLuca & Son (1) \$41,328 (2) \$900 (3) \$175 (8) \$3,691 (12) \$44,671.

Young & Horstmeier (1) \$42,700 (2) \$1,560 (3) \$500 (8) \$7,365 (12) \$46,400.

F. F. Spieker (1) \$43,240 (12) \$43,165.

F. C. Amoroso & Son (1) \$44,870 (2) \$600 (2) \$160 (8) \$3,100 (12) \$54,250.

Gauley & Yaunt (1) \$44,970 (2) \$2,268 (3) \$197 (8) \$6,735 (12) \$49,829.

A. Nelson (1) \$44,970 (2) \$1,475 (3) \$270 (8) \$3,100 (12) \$49,579.

R. C. Stickle (1) \$45,060 (2) \$1,755 (3) \$455 (8) \$5,950 (12) \$51,092.

E. T. Lelter & Sons, (1) \$46,887 (2) \$1,985 (2) \$400 (8) \$5,750 (12) \$51,327.

J. Pringle & Turner (1) \$49,402 (12) \$49,365.

John Bjorkman (12) \$47,447.
Thomas Skeely & Kohler (4) \$10,994 (5) \$780 (6) \$2,755 (9) \$2,540 (10) \$492 (13) \$10,078 (14) \$2,882.
A. Ramazzotti (4) \$11,400 (5) \$765 (6) \$2,600 (9) \$2,100 (10) \$700 (13) \$14,800 (14) \$3,150.
Frank J. Klimm (4) \$11,456 (5) \$750 (6) \$2,129 (9) \$2,750 (10) \$400 (12) \$11,567 (14) \$3,245.

Scott Co. (4) \$12,379 (5) \$819 (6) \$2,437 (9) \$2,900 (10) \$415 (13) \$12,758 (14) \$2,962.

J. A. Fazio (4) \$12,539 (5) \$460 (9) \$2,800 (13) \$11,000.

F. J. Rehm (6) \$2,460 (10) \$473 (14) \$2,676.

Thomas Douglas (6) \$2,780 (10) \$385 (12) \$2,530.

J. A. Wilson (6) \$2,785 (10) \$524 (14) \$3,092.

Gilley Schmid (6) \$3,196 (10) \$460 (14) \$3,523.

George Wara (6) \$3,199 (10) \$499 (14) \$2,149.

George Wolfe (7) \$2,533 (11) \$17 (15) \$3,782.

G. H. Armstrong (7) \$2,024 (11) \$425 (15) \$3,274.

N. C. Nicklassen (7) \$3,388 (11) \$510 (15) \$2,490.

Neugebauer & McKenney Co. (7) \$4,115 (11) \$550 (15) \$3,274.

Otis Elevator Co. (16) \$6,326.

Spencer Elevator Co. (16) \$6,840.

Contracts Awarded.

OFFICERS' QUARTERS Cost, \$—

SAN FRANCISCO. Presidio.

Fifteen double sets of non-commissioned officers' quarters (each 2-story and basement, brick construction).

Owner—U. S. Government.

Plans by Quartermaster General's Office, Washington, D. C.

Contractor—Frank J. Reilly, 2650 Fulton St., at \$170,261.

Plumbing—Frank J. Klimm Co., 456 Ellis St., at \$15,946.

Electrical Work—George Armstrong, 2990 Howard St., at \$5169.

Heating bids are being held under advisement.

Plans Being Prepared.

BOMBING BASE Cost, \$5,000,000

MARIN COUNTY, near San Rafael.

Officers' quarters, barracks buildings, warehouses, etc.

Owner—United States Government.

Plans by Capt. H. B. Nurse, San Rafael.

Construction of this project will extend over a three-year period. Capt. Nurse is now organizing his staff and will shortly select permanent headquarters in San Rafael. Construction involves 125 houses for commissioned officers, 55 duplex houses for non-commissioned officers, five two-story barrack buildings to house 972 enlisted men, eleven hangars (100 ft. by 200 ft.), two warehouse buildings, post exchange, gymnasium, theater, laundry, bakery, parachute building, photo building, guard house, fire station, hospital, bachelor officers' quarters, officers' club, non-commissioned officers' club, headquarters building, post children's school, chapel, athletic field, radio station. Further mention will be made of this work as the plans progress.

SAN FRANCISCO—Anchor Post

Fence Co., 460 5th St., at \$936 awarded

contract by Constructing Quartermaster, Fort Mason, to repair wire

fences at Fort Miley.

SAN FRANCISCO—Highbridge-International Co., New York, N. Y., at \$174 awarded contract by Supervising

Architect, Treasury Department, to furnish and install fire escapes on

Marine Hospital, now in course of

construction at the San Francisco

Presidio. Bids were opened in Wash-

ington on April 23. Complete list of bids follows:

Highbridge-International Co., New York City\$147
Monarch Iron Works, San Francisco1,57
F. Kern and Sons, San Francisco1,59
Patterson & Koster Iron Works San Francisco1,83

Plans Being Figured—Bids Close June 8th.

POSTOFFICE \$1,215,000 available.

SALT LAKE CITY, Utah. Extension and remodeling of class A postoffice, courthouse, etc.

Owner—United States Government.

Architect—Supervising Architect Treasury Dept., Washington, D. C.

Bids will be received by the Supervising Architect, Treasury Department, Washington, D. C. Bids are wanted for a general contract, exclusive of elevators. Plans obtainable from above office on deposit of \$50 returnable.

Sub Bids Being Taken

OFFICERS' QUARTERS Cost, \$170,261

Price\$170,261

SAN FRANCISCO, Presidio.

Fifteen double sets of non-commissioned officers' quarters (each 2-story and basement, brick construction).

Owner—U. S. Government.

Plans by Quartermaster General's Office, Washington, D. C.

Contractor—Frank J. Reilly, 2650 Fulton St.

As per rep.

Plumbing—Frank J. Klimm Co., 456 Ellis St., at \$15,946.

Electrical Work—George Armstrong, 2990 Howard St., at \$5169.

Heating bids are being held under advisement.

Plans Being Figured—Bids Close May 15th.

OFFICERS' QUARTERS Cost, \$—

FORT, SHAFER, T. H. Schofield Barracks.

Construct quarters for married officers and non-commissioned officers and for utilities in connection therewith.

Owner—United States Government.

Plans by Department Quartermaster Construction Division, Fort Shafter.

Plans obtainable from the Department Quartermaster at Fort Shafter on deposit of \$100, returnable. The bids are being received by the Department Quartermaster under Circular No. 9.

HALLS AND SOCIETY BUILDINGS

Plans Being Completed.

REMODELING Cost, \$15,000

SANGER, Fresno Co., Cal.

Remodel present two-story brick lodge building.

Owner—Masonic Lodge (A. E. Cison in charge), San Francisco.

Architect—Swartz & Ryland, B-13 Bldg., Fresno.

Plans To Be Prepared.

MEMORIAL BLDG. Cost, \$60,000

to be budgeted to finance

ALBANY, Alameda Co., Cal.

American Legion Memorial Building.

Owner—County of Alameda, Geo. E. Gross, County Clerk.

Architect—Henry H. Meyers, Kohl Bldg., San Francisco.

A committee of Albany citizens will be appointed by the Albany city trustees to confer with the architect to determine the type of structure desired.

Preparing Working Drawings.

ALTERATIONS Cost, \$—

NAPA, Napa Co., Cal. Second Street

Alterations and additions to 3-story brick store and lodge building (add one story, etc.)

Owner—Masonic Lodge, 2nd St., Napa. Plans by W. H. Corlett, 507 Jefferson St., Napa.

Plans Being Figured—Bids Close June 1st, 9 A. M.
MEMORIAL Cost approx., \$20,000
VACAVILLE, Solano Co., Cal.

One-story and basement Veterans' Memorial Building.

Owner—County of Solano.
Architect—Kent & Hass, 525 Market St., San Francisco.

Bids will be received by the county clerk until June 1st, 9 A. M. (to be opened 11 A. M.) Plans and specifications obtainable from architect and county clerk upon deposit of \$20.00.

HOSPITALS

OAKLAND, Calif.—Mangrum-Holbrook Co., 1235 Mission St., San Francisco, awarded contract by county supervisors to furnish and install equipment in the Tubercular Building at the Fairmount Hospital.

May 7, 1931
Plans Being Figured—Bids Close June 2, 2 P. M.
WARD UNIT. Cost, \$—
TALMAGE, Mendocino Co., Cal.

Two-story concrete Ward Building No. 14.

Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.

The building is two stories with concrete floors and walls, concrete and brick partitions, wood roof construction and tile roof. The total floor area is approximately 15,500 square feet. Separate bids will be entertained for the following segregate part of the work and combinations thereof:

1. General Work, embracing all branches of the construction other than Plumbing, Heating and Electrical
2. Electrical Work.
3. Plumbing Work.
4. Heating Work.
5. Combined Plumbing and Ventilating Work.

SAN FRANCISCO.—Gunn, Carle & Co., 444 Market St., at \$1,286 submitted low bid under Proposal No. 714 to City Purchasing Agent for Duraflex flooring in the Infirmary Building at the Laguna Honda Home. Two bids submitted as follows:

Gunn, Carle & Co., \$1,286; (a) extra charge for covering existing base with two coats of Dura-Floor, per lin. ft., \$45; (b) additional flooring, sq. ft. \$27. Time for completion, 35 days.
Malott & Peterson, \$1,571; (a) \$20; (b) \$28. Time, 35 days.
Taken under advisement.

SAN FRANCISCO.—American Surgical Sales Co., 429 Sutter Street, San Francisco, at \$14.10 each, bidding on Simmons Mfg. Co.'s beds, submitted low bid to City Purchasing Agent to furnish 120 beds for Laguna Honda Home. Delivery 18 days. Complete list of bids follows:

American Surgical Sales Co., \$14.10; Simmons bed, delivery 18 days.
D. N. & E. Walter Co., Coll Support, \$15.93; delivery 14 days.
W. & J. Sloane Co., Simmons Institution bed, \$15.30; 15 days.
Wilson Co. of the Pacific, Rome Bed, \$15.93; 14 days.
J. P. Cleece, \$18.63; delivery 25 to 30 days.
Taken under advisement.

Preparing Working Drawings.

HOME Cost approx. \$250,000
S A N F R A N C I S C O. University and Cambridge Streets.

Two- and three-story reinforced concrete and brick Home For Aged. Owner—Lick Old Ladies' Home.
Architect—Alfrey Coffey and Martin Rist, Phelan Bldg.
Bids will be taken in several weeks.

Completing Plans.
HOSPITAL Cost, \$300,000
L O S A N G E L E S, Cal. Sixth and St. Louis Streets.

Six-story and basement Class A reinforced concrete hospital (80 beds).

Owner—Santa Fe Railway Co., Kerchoff Bldg., Los Angeles.

Architect—Eng. Dept. of Owner.
Bids will be called for in about two weeks.

Bids Opened.
HOSPITAL Cost, \$—
S A L T L A K E C I T Y, Utah.

Veterans' Hospital, comprising Main Building No. 1, one garage and Attendants' Quarters No. 2, including roads, walks, grading and drainage.

Owner—U. S. Government.
Plans by Construction Division, U. S. Veterans' Bureau, Arlington Bldg., Washington, D. C.

Two Low Bidders
C. S. Lambie, Amarillo, Tex., \$353,952
Jas. Burke & Co., Salt Lake City, Utah, 374,824

Plans Being Figured—Bids Close May 19, 3 P. M.

REMODELING Cost, \$—
R E N O, Washoe Co., Nevada. State Hospital Grounds.

Remodeling state hospital for mental diseases.

Owner—State of Nevada.
Architect—Geo. A. Ferris & Son, Cladnon Bldg., Reno.

Bids are being received by George B. Russell, State Treasurer at Carson City. Certified check 10% payable to George B. Russell, Secretary, Board of Commissioners, Nevada State Hospital for Mental Diseases. Plans are obtainable from the architect.

Plans Being Figured—Bids Close May 18.

HOSPITAL \$200,000 Available
P E N D L E T O N, Oregon.
Three-story reinforced concrete hospital, 43x164 feet (accommodations for 250 patients).

Owner—State of Oregon.
Architect—Knight & Howell, U. S. Bank Bldg., Portland, Ore.

Preparing Working Drawings.

HOSPITAL Cost, \$500,000
Y O U N T V I L L E, Napa Co., Cal.
Two- and three-story and basement reinforced concrete State Veterans' Hospital.

Owner—State of California.
Architect—F. H. Meyer, 525 Market St., San Francisco.

Bids Opened.
GARAGES, ETC. Cost, \$—
A G N E W, Santa Clara Co., Cal. State Hospital Grounds.

Two -story concrete Employees' Quarters and one-story concrete garages.

Owner—State of California.
Plans by State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.

Employees' Quarters will consist of two buildings and separate garages, having concrete exterior walls, wood partitions, wood floor and roof construction and tile roof. Garages will be one-story with concrete walls and floor, wood roof construction and tile and composition roof. Employees' quarters will have floor area of ap-

proximately 10,000 sq. ft. each and the garages a floor area of approximately 4,100 sq. ft.

Following is a complete list of the bids:

(a) omitting certain portion of building, deduct.

General Work
A. Nelson, 242 Ocean Avenue, San Francisco, \$56,440; (a) \$7000.

Mission Concrete Co., San Francisco, \$58,435; (a) \$6167.

Wm. Spivock, San Francisco, \$60,700; (a) \$65900.

The Milton Co., Mt. View, \$65,754; (a) \$7900.

J. F. Shephard, Stockton, \$66,300; (a) \$6346.

E. T. Lelander & Son, Oakland, \$66,357; (a) \$8900.

Sullivan & Sullivan, Oakland, \$66,898; (a) \$7483.

Geo. J. Maurer, Piedmont, \$66,900; (a) \$8300.

Neves & Hart, Santa Clara, \$67,937; (a) \$5337.

R. O. Summers, San Jose, \$68,635; (a) \$6552.

George Swanstrom, Oakland, \$68,763; (a) \$7472.

J. J. Groden & Co., Alameda, \$69,920; (a) \$6550.

G. M. Latta, San Jose, \$71,000; (a) \$6100.

Jacobs & Pattiani, Oakland, \$71,466; (a) \$7200.

Alfred P. Fisher, San Francisco, \$71,530; (a) \$5200.

H. C. Vensano, San Francisco, \$83,170; (a) \$8922.

F. L. Hansen, San Francisco, \$94,440; (a) \$8444.

Heating
George C. Bell, 1825 Gleason Way, Oakland, \$4780; (a) \$600.

W. H. Smith, Long Beach, \$7200; (a) \$425.

Plumbing
W. H. Smith, Long Beach, \$12,200; (a) \$1500.

Electrical Work
R. M. Butcher, 1929 Sherwood, San Jose, \$2060; (a) \$244.

W. H. Smith, Long Beach, \$3300; (a) \$260.

Gulbert Bros. Electric Co., San Jose \$3309; (a) \$345.

Plumbing and Heating
Hatley & Hatley, 1710 10th Street, Sacramento, \$17,773; (a) \$2200.

Wm. Serpa, San Jose, \$18,375 (a) \$2160.

W. H. Smith, Long Beach, \$18,995; (a) \$1900.

Scott Co., San Francisco, \$19,637; (a) \$2022.

Bids held under advisement.

HOTELS

Plans To Be Prepared—Contract Awarded.

ADDITION Cost, \$100,000
CHICO, Butte Co., Cal. Second and Salem Streets.

Addition to hotel (66-rooms; several apartments).

Owner—Hotel Oaks (G. D. Smith), % Hotel Mark Hopkins, San Francisco.

Architect—Cole & Brounchar, Chico. Contractor—James L. McLaughlin, 251 Kearny St., San Francisco.

ICE AND COLD STORAGE PLANTS

Plans To Be Prepared.
PRE-COOLING PLANT Cost, \$20,000
AKHUCKLE, Colusa Co., Cal.

Pre-cooling plant (4-car capacity).

Owner—Union Ice Co., 354 Pine St., San Francisco.

Plans by Eng. Dept. of Owner.

WATTS, Los Angeles Co., Cal.—Associated Ice Distributors, 671 Rio St., Los Angeles, will start work within a few days on the erection of a 30-ton, refrigerated ice house at the

northeast corner of East 103rd St. and Success Ave., Watts. It will be a frame and stucco structure. Construction work will be handled by the owners.

Contract Awarded.
STORAGE PLANT Cost, \$150,000
WATSONVILLE JUNCTION, Monterey Co., Calif. Salinas Road. One-story reinforced concrete cold storage plant (capacity, 250,000 boxes).
 Owner—Fruit Growers Cold Storage Co., 16 Wall St., Watsonville.
 Plans by Mr. Wallstrum.
 Contractor—P. T. Wallstrum, 217 Center St., Watsonville.
 Construction expected to start May 19th.

POWER PLANTS

BOULDER CITY, Nevada—Until May 15, 2 P. M., under Specifications No. 521-D, bids will be received by the U. S. Bureau of Reclamation, Las Vegas, Nevada, to construct transmission lines from the Hoover Dam Station to Boulder City and to Pumping Plant No. 1, Boulder Canyon Project, Arizona-California-Nevada. The work is located near Las Vegas, Nevada, on the Los Angeles and Salt Lake Railroad of the Union Pacific System.

The work will consist of the construction of 6.83 miles of single-circuit, 33,000 volt, wood pole transmission line and 0.73 miles of single circuit 2300 volt transmission line and the placing of a telephone circuit on the poles of the 2300 volt line.

This invitation for bids does not cover the purchase of materials which are to be furnished by the Government. Materials to be furnished by the contractor, and those furnished by the Government are described in the specifications which will be a part of the contract.

Specifications obtainable from the Bureau at Las Vegas.

BRAWLEY, Imperial Co., Cal.—City will call election shortly to vote bonds of \$150,000 to finance enlargement of the present municipal power plant.

SEATTLE, Wash.—Until May 15, 10 A. M., bids will be received by the Board of Public Works, G. W. Roberge, secretary, to assemble and install hydro-electric machinery and equipment in the Diablo Power Plant; estimated cost \$250,000. The apparatus to be assembled and installed, purchased several months ago, includes two 66,700 kva. main generators; two 1500 kva. house generators; four water wheels; two 14-foot butterfly valves and auxiliary equipment. Specifications obtainable from R. H. Thompson, city engineer.

UKIAH, Mendocino Co., Cal.—J. H. Baxter & Co., 333 Montgomery St., San Francisco, awarded contract by city council to furnish one carload of mixed poles, f. o. b. cars, Ukiah, as follows:

- (a) 25-50' Western Red Cedar Poles, \$17.85 each.
 - (b) 45' Western Red Cedar Poles in sufficient quantity to make carload lot, \$15.80 each.
- All poles to be butt treated with grade one creosote oil, guaranteed 1/2" penetration. Treatment to comply strictly with Western Red Cedar Association butt treating specification as adopted January 13, 1925.
 Complete list of bids follow:
 J. H. Baxter, San Francisco (a) \$17.85; (b) \$15.80.
 Niedermayer—Martin Lumber Co., Portland, Ore. (a) \$20.72; (b) \$16.79
 James L. Hall, San Francisco (a) \$19.50; (b) \$16.85.

Chas. R. McCormick Lumber Co., San Francisco, (a) \$18.10; (b) \$15.60.
 Hetcher & Hetcher, Sand Point, Icaho (a) \$24.25; (b) \$20.75.

May 4, 1931

To Vote Bonds May 11.
CITY HALL Cost, \$15,000
LOS BANOS, Merced Co., Cal. Two-story brick and reinforced concrete combination fire house and city hall.
 Owner—City of Los Banos.
 Plans by W. E. Bedesen (engineer), Shafter Bldg., Merced.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Sub-Bids Being Taken.
RESIDENCE Cost, \$6000
SAN CARLOS, San Mateo Co., Calif. One-story and basement frame and stucco residence (5 rooms).
 Owner and Builder—John McCarthy, 1342 Funston Ave., San Francisco.
 Architect—Not Given.
 Composition and tile roofing, gas and hot air heating system.

To Be Done By Day's Work.
RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. 475 Boyston Avenue.
 Two-story and basement frame and stucco residence (7 rooms).
 Owner—J. P. Hayes, care architect.
 Plans by S. Seindel, 350 N Hampton Road, Berkeley.

Plastering Contract Awarded.
RESIDENCE Cost, \$12,000
SAN MATEO, San Mateo Co., Calif. Baywood Park.
 Two-story and basement frame and stucco residence (7 rooms and 3 baths).

Owner & Builder—Robert Emith, 1493 Burlington Ave., Burlingame.
Plans by Grimes & Schering, Balovich Bldg., San Mateo.
Plastering—Charles Smith, 666 Mission St., San Francisco.
 Other awards will be made shortly. Work is being done by day's labor by owner.

To Be Done By Day's Work.
RESIDENCE Cost, \$5,000
OAKLAND, Alameda Co., Cal. SW Trestle Glen and Brookwood Road.
 Two-story and basement frame and stucco residence (7 rooms).
 Owner and Builder—Jas. L. Rich, 1175 Stanford Ave., Oakland.
 Plans by Owner.

Preparing Preliminary Plans.
MUSEUM Cost, \$200,000
SAN DIEGO, Cal. Balboa Park. Fireproof museum.
 Owner—City of San Diego.
 Architect—Wm. T. Johnson, San Diego Trust & Savings Bank Bldg., San Diego.

TEHACHAPI, Kern Co., Calif.—Until Monday, May 18, bids will be received by the Kern County supervisors, Bakersfield, for the erection of the Tehachapi branch library.

- SAN FRANCISCO**—Fink & Schindler Co., 228 13th Street, San Francisco, at \$16,931.70 awarded contract by State Purchasing dept., Sacramento, for interior partitions, etc., in State Building, San Francisco. Following is a complete list of the bids received:
- Fink & Schindler\$16,931
 - Diamond Show Case Co. 15,406
 - Enclite Mfg. Co. 19,475
 - Weber American Co. 19,733
 - Bras & Kuhn 21,828
 - R. Brandlein 22,337
 - Home Mfg. Co. 29,639

RICHMOND, Contra Costa Co., Cal.—Wm. Harris, 305 Ripley Ave., Rich-

mond, at \$208.51 awarded contract by city council for painting offices of police department. Other bids: Charles Swarout, \$327; Lambie & Lambie, \$385; Joseph Burdon & Son, \$338.

Bids Opened.
LEGION BLDG. Cost, \$2,500,000
SAN FRANCISCO. Civic Center.
 Four-story and basement concrete structure. A. L. Leach Building.
OPERA HOUSE Cost, \$2,500,000
 Six-story class A opera house, seating capacity, 4,000; standing room, 500.
 Owner—City and County of San Francisco (S. F. War Memorial).
 Architect—G. A. Lansburgh, 140 Montgomery St., and Arthur Brown, 251 Kearny Street.

Mrgs. of Const.—Lindgren & Swinerton, Inc., 225 Bush St.
 Following is a complete list of bids:
Granite (Furnishing and Setting)
 McGilvray-Raymond Granite Co. (a) \$92,229; (b) \$96,840; (c) \$47,148; (d) \$363,600; (e) \$381,780; (f) \$428,094; (g) \$449,498; (h) \$318,969; (i) \$334,917; (j) \$453,712; (k) \$476,358; (l) \$128,537; (m) \$114,063; (n) \$93,630; (o) \$37,658.

Indiana Limestone
 McGilvray-Raymond Granite Co. (a) \$67,163; (b) \$78,769; (c) \$33,273; (d) \$119,916; (e) \$211,108; (f) \$245,788; (g) \$268,167; (h) \$177,917; (i) \$139,709; (j) \$295,467; (k) \$322,010; (l) \$30,649; (m) \$99,714; (n) \$79,777; (o) \$87,755.
Cast Stone (Furnishing and Setting)
 (a) using granite aggregates; (b) using limestone aggregates.
 P. Grassi Travertine Works, Inc. (a) \$60,913; (a-1) ded. \$3,000; (c) \$62,100; (b-1) \$30,000; (c) \$27,579; (e-1) ded. \$1320; (d) \$118,402; (d-1) ded. \$5900; (e) \$121,460; (e-1) ded. \$6000; (f) \$165,000; (f-1) ded. \$3250; (g) \$169,182; (g-1) ded. \$8500; (h) \$147,262; (h-1) ded. \$7350; (i) \$150,881; (i-1) ded. \$7500; (j) \$239,497; (j-1) ded. \$11,650; (k) \$239,402; (k-1) ded. \$12,000; (l) \$70,239; (l-1) ded. \$3500; (m) \$71,952; (m-1) ded. \$3600; (n) \$50,163; (n-1) ded. \$2500; (o) \$51,332; (o-1) ded. \$2500.

(Architectural Terra Cotta)
 (Furnished and delivered only)
 Gladding-Beckan & Co. (a) \$31,400; (b) \$108,500; (c) \$96,500; (d) \$162,900; (e) \$56,200; (f) \$42,900; (g) \$37,500; (h) \$420,600.
 N. Clark and Son, (a) \$90,900; (b) \$126,600; (c) \$11,870; (d) \$17,630; (e) \$58,200; (f) \$47,400; (g) \$47,820; (h) \$456,400.

Plans Being Figured—Bids Close May 25, 11 A. M.
HEATING SYSTEM Cost, \$2000
STOCKTON, San Joaquin Co., Cal. Install heating and ventilating system in County Jail.
 Owner—County of San Joaquin, Eugene Graham, San Joaquin Clerk.
 Architect—Joseph Losekann, 1218 W. Harding St., Stockton.
 The system will be installed in the basement, tanks and cells. Plans are obtainable from the office of the county clerk.

RESIDENCES

Preparing Plans.
RESIDENCES Cost, \$6500 each
RICHMOND, Contra Costa Co., Cal. Two one-story and basement frame and stucco residences.
 Owner—Withheld.
 Architect—James T. Narbett, 474 31st St., Richmond.

Plans completed.
RESIDENCE Cost, \$25,000
SANTA BARBARA, Santa Barbara Co., Cal. Euena Vista (17 acre site).
 Two-story frame and stucco residence
 Owner—Ernest E. Duque.
 Architect—Edwards & Plunkett, 20 S. Figueroa St., Santa Barbara.

Contract Awarded.
RESIDENCE Cost, \$14,000
BERKELEY, Alameda Co., Cal. El Camino Real near Uplands.
Two-story and basement frame and stucco residence (Spanish type, the roof, gas hot air heating system, tile baths).
Owner—Withheld.
Architect—Edwin L. Snyder, 2101 Ad-dison St., Berkeley.
Contractor—S. M. Shapero, 1245 Berkeley Way, Berkeley.
Start construction in ten days.

Contract Awarded.
RESIDENCE Cost, \$12,500
BERKELEY, Alameda Co., Cal. San Luis Road.
Two-story and basement frame, stucco and brick residence (English type shingle roof, tile baths, gas hot air heating system).
Owner—Withheld.
Architect—Edwin L. Snyder, 2101 Ad-dison St., Berkeley.
Contractor—H. K. Schultz, 511 Mendocino Ave., Berkeley.

Contract Awarded.
RESIDENCE Cost, \$9,655
BURLINGAME, San Mateo Co., Cal. Easton Drive.
Two-story and basement frame and stucco residence.
Owner—Fred H. Brown et al.
Plans by Grimes & Schoening, Balovich Bldg., San Mateo.
Contractor—C. B. McClain, 1412 Edgehill St., Burlingame.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Lakeshore Highlands.
Two-story and basement frame and stucco and brick veneer residence (8 rooms, 3 baths).
Owner—Myrtle Hass.
Architect—Kent & Hass, 525 Market St., San Francisco.
Contractor—Larsen & Larsen, R u s s Bldg., San Francisco.
Lumber—Loop Lumber Co., Broadway and Blanding, Oakland.
Plaster—Wm. Makin, 1048 Excelsior St., Oakland.
Roofing—General Roofing Co., 398 S Beach St., Oakland.
Electrical Work—Spot Electrical Co., 2095 Broadway, Oakland.
Plumbing—W. H. Picard, 5656 College Ave., Oakland.

Steel Sash—Michel & Pfeffer, Harrison and 10th Sts., San Francisco.
Mill Work—Pacific Mfg. Co., 353 Hobart St., Oakland.
Electric and gas, hot air heating system, metal sash, cedar and oak floors, slate roof, tile baths, linoleum and hardwood floors.

Completing Plans.
RESIDENCE Cost, \$—
KENTFIELD, Marin Co., Cal.
Two-story and basement frame and stucco residence (8 rooms and 3 baths).

Owner—Withheld.
Architect—W. E. Baumberger, 544 Market St., San Francisco.
Bids will be taken within one week.

Contract Awarded.
RESIDENCE Cost, \$3,000
BURLINGAME, San Mateo Co., Cal. Montero Avenue.
Two-story frame and stucco residence
Owner—L. C. Turner, 1839 7th Ave., Oakland.
Architect—Not Given.
Contractor—H. K. Henderson, 393 40th St., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cont. price, \$8290
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement rustic residence (7 rooms).
Owner—C. Wesley Toy, 760 S 9th St., San Jose.

Architect—Binder & Curtis, 36 W San Carlos St., San Jose.
Contractor—George Honore, 136 Race St., San Jose.
Mill Work—Hubbard and Carmichael Bros., 384 W Santa Clara St., San Jose.
Painting—George M. Cahill, 763 East Julian St., San Jose.
Plumbing and Heating—H. J. Pascoe, 208 W Santa Clara St., San Jose.
Plastering—Joe Piazza, 246 Grand Ave., San Jose.
Tile Work—Eriscoe Tile Co., 197 N 14th St., San Jose.
Lumber—S. H. Chase Co., 547 West Santa Clara St., San Jose.
Roofing—H. H. Porter, 1473 San Carlos St., San Jose.
Cement—A. H. Falconer, Malone Rd., San Jose.

To Be Done By Day's Work.
RESIDENCE Cost, \$11,000
BERKELEY, Alameda Co., Cal. 1643-1649 Arch St.
Two-story and basement frame and stucco residence (10 rooms).
Owner and Builder—Milton S. Bond, 1655 Scenic Ave., Berkeley.
Plans by Owner.

Contract Awarded.
RESIDENCE Cost, \$7,500
SAN FRANCISCO, S Sotelo E Ninth Avenue.
Two-story and basement frame and stucco residence.
Owner—Mrs. E. Edwards, 1227 Fourth Avenue.
Plans by D. S. Adams, 810 Ulloa St.
Contractor—G. Swanson, 3539 Market Street.

Sub-Bids Being Taken.
RESIDENCE Cost, \$130,000
WOODSIDE, San Mateo Co., Cal.
Two-story and basement brick veneer residence (16 rooms).
Owner—Walter Buck, 369 Pine Street, San Francisco.
Architect—Farr & Ward, 68 Post St., San Francisco.
Contractor—Hamilton Const. Co., 5144 Geary St., San Francisco.
Sub-bids are wanted on plumbing, mill work, electric work, heating, plaster, ornamental iron, brick work, lumber and roofing.

Sub-Bids Being Taken.
RESIDENCE Cost, \$12,000
SAN MATEO, San Mateo Co., Calif. Baywood Park.
Two-story and basement frame and stucco residence (7 rooms and 3 baths).
Owner & Builder—Robert Smith, 493 Burlingame Ave., Burlingame.
Plans by Grimes & Schoening, Balovich Bldg., San Mateo.
Construction will be started in one week.

Contract Awarded.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and stucco residence.
Owner—C. Wesley Toy, 760 S 9th St., San Jose.
Architect—Binder & Curtis, 36 W San Carlos St., San Jose.
Contractor—George Honore, 136 Race St., San Jose, \$8290.

Low Bidder.
RESIDENCE Cost, \$—
PIEDMONT, Alameda Co., Cal. Wildwood Gardens.
Two-story and basement frame and stucco residence.
Owner—Miss M. Dugrey.
Architect—Blaine & Olsen 1755 Broadway, Oakland.
Low Bidder—Edward Larmer, 90 Fairview, Piedmont, [61] (5501)

Low Bidder.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and stucco residence.
Owner—Dr. P. A. Brancatto, 1266 Naglee Ave., San Jose.
Architect—Binder & Curtis, 36 W San Carlos St., San Jose.
Low Bidder—J. W. Santana, Toyon Ave., San Jose.

Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$17,116
BERKELEY, Alameda Co., Cal. Hawthorne Terrace.
Two-story and basement frame and stucco residence (9 rooms and 4 baths).

Owner—E. H. Crocheron, 1865 Euclid Ave., Berkeley.
Architect—Wm. C. Ambrose, 605 Market St., San Francisco.
Contractor—T. D. Courtright, 5098 Marina Ave., Oakland.
Excavation—J. Henry Harris, 2208 Roosevelt St., Berkeley.
Concrete Work—P. Barale, 123 E-15th St., Oakland.
Lumber—Tilden Lumber Co., Foot of University Ave., Berkeley.
Mill Work—Atkinson Mill & Mfg. Co., 2985 Chapman St., Berkeley.
Plumbing—Covey & Ehret, 1605 Bonita St., Berkeley.
Plastering—Ralph Tyler, 7203 Spencer St., Oakland.

Metal Sash, Glass Metal Medicine Cabinets—East Bay Glass Co., 621 8th St., Oakland.
Painting—Pacific Painting & Decorating Co., 5414 Telegraph Ave., Oakland.

Hardwood Floors—Alameda Floor Co., 1354 Pearl St., Alameda.
Over Garage Doors—Overhead Garage Door Co., 1410 Madison St., Oakland.
Ornamental Iron—Chas. Frandsen, Berkeley.

Electrical Work—Fred Schmitts, 430 Moss Ave., Oakland.
Canvas & Awnings—Kronke-Bramp-ton Co., 3212 San Pablo Ave., Oakland.

Heating and Ventilating—Aladdin Heating Corp., 5197 Broadway, Oakland.
Tile Roofing and Asphaltum—Slate Roofing Co., 4128 Gilbert St., Oakland.

Marble—Ray Cooke Marble Co., Foot of Powell St., Oakland.
Rolling Screens—Hipolito Co., 4246 Holden St., Oakland.
Hardware—Maxwell Hardware Co., 1329 Washington St., Oakland.
Excavation and forms for concrete are in progress.

Preparing Working Drawings.
RESIDENCE Cost, \$15,000
PIEDMONT, Alameda Co., Cal.
Two-story and basement frame and stucco residence (9 rooms and 3 baths).
Owner—Withheld.
Architect—Miller & Warneke, Financial Center Bldg., Oakland.
Contractor—Selected (Name Withheld)

To Be Done By Days Work
RESIDENCES Cost, \$20,000
SAN FRANCISCO, E 26th Avenue N Vicente St.
Five one-story and basement frame and stucco residences.
Owner and Builder—Stonson Bros. & Thorinson, 279 Yerba Buena Ave.
Plans by Owners.

Plans Being Figured.
RESIDENCE Cost, \$9000
PACIFIC GROVE, Monterey Co., Cal.
Two-story frame and stucco residence (7 rooms).
Owner—Withheld.
Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

Preparing Plans.
RESIDENCE Cost, \$6000
MODESTO, Stanislaus Co., Cal.
One - story and basement frame and
stucco residence (Spanish type; 6
rooms, tile bath, tile roof).
Owner—R. E. Cadrett, 413 Sycamore
St., Modesto.
Architect—G. N. Hillturn, Elks Bldg.,
Modesto.

To Be Done By Day's Work By Owner
RESIDENCE Cost, \$8000
BERKELEY, Alameda Co., Calif. 1022
Euclid Avenue.
Three-story frame and stucco resi-
dence (7 rooms).
Owner—Erick King, 1370 Hopkins St.,
Berkeley.
Plans by W. Broderick, Koerber Bldg.,
Berkeley.

Preparing Plans.
RESIDENCE Cost, \$6000
MODESTO, Stanislaus Co., Cal.
One - story and basement frame and
stucco residence (Spanish type; 6
rooms, tile bath, tile roof).
Owner—Richard Linsstrom, 426 Modern
Modesto.
Architect—G. N. Hillturn, Elks Bldg.,
Modesto.

Contract Awarded.
RESIDENCE Cont. price, \$8,290
SAN JOSE, Santa Clara Co., Cal.
Two - story and basement rath resi-
dence (7 rooms).
Owner—C. Wesley Toy, 760 S 9th St.,
San Jose.
Architect—Blinder & Curtis, 36 W San
Carlos St., San Jose.
Contractor—George Honore, 136 Race
St., San Jose.

Contract Awarded.
RESIDENCE Cost, \$11,000
SAN JOSE, Santa Clara Co., Cal.
One - story and basement frame and
stucco residence (7 rooms and 2
baths).
Owner—E. Buchser, San Jose.
Architect—Wolfe & Higgins, 19 N 2nd
St., San Jose.
Contractor—T. H. Herschbach, Twoby
Bldg., San Jose.

Contract Awarded.
RESIDENCE Cost approx. \$25,000
HILLSBOROUGH, San Mateo Co., Cal.
Two - story and basement frame and
stucco residence.
Owner—W. H. Berg.
Architect—Willis Polk Co., 377 Pine
St., San Francisco.
Contractor—A. F. & C. W. Mattock,
210 Clara St., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$5000
SAN FRANCISCO, W San Jose Ave.
S Ocean Ave.
One-story and basement frame and
stucco residence (5 rooms).
Owner and Builder—Thomas Johnson,
316 Westwood Dr., San Francisco
Architect—Not Given.

Contract Awarded.
RESIDENCE Cost, \$14,000
ORINDA, Contra Costa Co., Cal.
One-story and basement frame and
stucco residence.
Owner—Dr. George McClure, 411 30th
St., Oakland.
Architect—William Rich, Orinda.
Contractor—Henry McKellor, Fruit-
vale, Calif.

Plans Being Prepared.
RESIDENCE Cost, \$—
SAN JOSE, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence (6 rooms and 3
baths).
Owner—Dr. E. E. Porter, Security Bk.
Bldg., San Jose.
Architect—Wolfe & Higgins, Realty
Bldg., San Jose.
Previous plans have been abandoned
and new ones are now being made.

Contract Awarded.
RESIDENCE Cont. Price, \$4223
SAN JOSE, Santa Clara Co., Cal.
One-story and basement frame and
stucco residence.
Owner—William Walsh, 1445 Liberty
St., San Jose.
Architect—Wolfe & Higgins, Realty
Bldg., San Jose.
Contractor—S. DiFiore, 985 Hamline
St., San Jose.
Painting—George Cahill, 763 Julian
St., San Jose.

Plans Being Completed.
RESIDENCE Cost, \$18,000
SAN FRANCISCO, Marina District.
Two-story and basement frame and
stucco residence (9 rooms and 4
baths).
Owner—Withheld.
Architect—Chas. Strothoff, 2274 15th
St., San Francisco.
Bids will be taken in about ten days.

Plans Being Completed.
RESIDENCE Cost, \$25,000
Two-story and basement frame and
stucco residence (9 rooms and 4
baths).
Owner—Withheld.
Architect—Chas. Strothoff, 2274 15th
St., San Francisco.
Bids will be taken in about ten days.

Plans Being Figured—Bids Close May
15, 2:30 P. M.
RESIDENCE Cost, \$11,000
PACIFIC GROVE, Monterey Co., Cal.
Two-story and basement frame and
stucco residence (7 rooms and 2
baths).
Owner—Salvadore Enea, 75 W-Eighth
St., Pittsburg.
Architect—A. W. Story and W. W.
Hastings, Associated, Pajaro Val-
ley Bank Bldg., Watsonville.

Plans Being Prepared.
RESIDENCE Cost, \$40,000
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and
stucco residence.
Owner—E. J. Arkush, 988 Market St.,
San Francisco.
Architect—Willis Polk Co., 277 Pine
St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$12,500
PALO ALTO, Santa Clara Co., Cal.
No. 780 Hamilton Avenue.
Two-story and basement frame and
stucco residence.
Owner—J. C. Simmeron.
Architect—Not Given.
Contractor—W. P. Klay, Menlo Oaks
Drive, Menlo Park.

Contract Awarded.
RESIDENCE Cost, \$11,600
PALO ALTO, Santa Clara Co., Cal.
No. 524 Center Street.
Two-story and basement frame and
stucco residence.
Owner—A. H. Ranhof, 407 Cowper St.,
Palo Alto.
Architect—Not Given.
Contractor, Aro & Oberman, 1143 Web-
ster St., Palo Alto.

Plans Being Figured—Bids Close May
15, 2:30 P. M.
RESIDENCE Cost, \$5500
MONTEREY, Monterey Co., Cal. Mon-
terey Heights.
One-story and basement frame and
stucco residence (5 rooms; hot air
heating; shakes roof).
Owner—Miss Edna E. McKinley, 926
Harriet St., Monterey.
Architect—A. W. Story and W. W.
Hastings, Associated, Pajaro Val-
ley Bank Bldg., Watsonville.

Plans Being Figured—Bids Close May
15, 2:30 P. M.
RESIDENCE Cost, \$9500
PACIFIC GROVE, Monterey Co., Cal.
One-story and basement frame and
stucco residence (6 rooms and 2
baths).
Owner—O. Enea, 9th and Cutter Sts.,
Pittsburg.
Architect—A. W. Story and W. W.
Hastings, Associated, Pajaro Val-
ley Bank Bldg., Watsonville.

Contract Awarded.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.
Two - story and basement frame and
stucco residence.
Owner—Dr. P. A. Brancato, 1266 Na-
gelse Ave., San Jose.
Architect—Binder & Curtis, 35 W San
Carlos St., San Jose.
Contractor—J. W. Santana, Toyon St.,
San Jose.

SCHOOLS

TAFT, Kern Co., Cal.—Until 7 P. M. May 11, bids will be received by the Conley School District for furnishing school supplies and equipment as follows: (A) maintenance department; janitor's supplies, hardware supplies, tools, paints, etc.; (B) transportation department; gas and oil, tools and hardware supplies and miscellaneous garage supplies; (C) manual training department; tools, etc.; (D) athletic and playground supplies; (E) general educational supplies. Further information obtainable from H. R. Kanode, clerk, Box H, Taft.

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Preliminary Plans Completed.
ADDITIONS Cost, \$—
SAN FRANCISCO. Lowell and Morse. Additions to Longfellow School.
 Owner—City and County of San Francisco, S. J. Hester, sec'y, Board of Public Works.
 Architect—F. H. Meyer, 742 Market Street.
 Plans will be approved by the Board of Public Works May 6th.

Plans Being Figured—Bids Close May 20, 8 P. M.
SCHOOL ENTRANCE Cost, \$3500
LOS GATOS, Santa Clara Co., Cal.
 Spanish type portico entrance for elementary school (construct concrete stairway and exit doors).
 Owner—Los Gatos Elementary School District.
 Architect—W. H. Weeks, 525 Market St., San Francisco.

Certified check 5% payable to Los Gatos Elementary School District received with bid. Plans on file in office of H. L. Roberts, clerk of the district at Los Gatos, and obtainable from the architect.

Preliminary Plans Being Completed.
SCHOOL & GYM Cost, \$150,000
ELDRIDGE, Sonoma Co., Calif. Sonoma State Home.
 One-story reinforced concrete extension to school and gymnasium and new ward building.
 Owner—State of California.
 Architect—Powers & Ahnden 605 Market St., San Francisco.
 Preliminary plans are being forwarded to Sacramento May 5th for approval.

Preparing Working Drawings.
LIBRARY Cost, \$117,000
CHICO, Butte Co., Cal. State Teachers' College.
 One- and two-room library and classroom building (29,000 sq. ft.)
 Owner—State of California.
 Architect—Chester Cole, First National Bank Bldg., Chico.
 Brick construction, concrete floors, concrete pile foundations, terra cotta, tile roof.
 Plans will be ready for bids in about sixty days.

Preparing Plans.
SCHOOL Cost, \$20,000
EMERYVILLE, Alameda Co., Cal.
 One-story brick elementary school.
 Owner—Emeryville Elementary School Dist., Emeryville.
 Plans by Samuel Arnold, 3499 San Pablo Ave., Oakland.

Sub-Bids Being Taken.
SCHOOL Cost, \$100,000
SAN FRANCISCO. Ninth Avenue and Geary Street.
 Three-story steel frame and concrete parochial school (30x100-ft., auditorium and 12 classrooms).
 Owner—Roman Catholic Archbishop of San Francisco (Star of the Sea Parish).
 Architect—J. J. Foley, 770 5th Ave. Contractor—Cahill Bros., 206 Sansome Street.

Plans Being Completed.
SCHOOL \$15,000 Available
UKIAH, Mendocino Co., Cal. Redwood Valley District.
 One-story school (4 classrooms and auditorium) (reinforced concrete walls).
 Owner—Redwood Valley Union School District.
 Architect—William Herbert, Rosenberg Bldg., Santa Rosa.
 Plans will be completed in about one week and will be forwarded to Sacramento for approval.

BURLINGAME, San Mateo Co., Cal. Burlingame Elementary School District votes to construct 2-classroom

addition to Howard Avenue School for which \$13,000 is available from a recent bond issue.

Contracts Awarded.
GYMNASIUM Cost, \$100,000
MONTEREY, Monterey Co., Cal.
 One-story reinforced concrete and tile gymnasium and reinforced concrete and tile swimming pool.
 Owner—Monterey Union High School District.
 Architect—Swartz & Ryland, Spazier Bldg., Monterey.

General Work
W. J. Ochs, American Trust
 Bldg., San Jose.....\$37,009

Structural Steel
Golden Gate Iron Works, 1541
 Howard St., S. F.\$2730

Plumbing
Anderson & Dougherty, Salinas...\$4817

Heating
Barton-Oil-O-Matic, Monterey...\$8513.50

Electrical Work
D. Searle, Monterey.....\$5000

Hardware
Baker, Hamilton & Pacific Co.,
 700 7th St., S. F.\$1944

Swimming Pool
Anderson & Dougherty, Salinas...\$1463

Miscellaneous Iron
Fraunfelder Iron Works, 335 8th
 St., Oakland\$3181

Roughing in work only to be done at this time. Contracts on all other portions of the work will be awarded after July 1st.

Complete list of bids published April 27.

Additional Prospective Bidders.
SCHOOL Cost, \$87,000
YUBA CITY, Sutter Co., Cal.
 Two-story brick elementary school.
 Owner—Yuba School District, C. P. Taylor, Roy E. Cassidy and Elizabeth Z. Littleton (clerk), trustees of district.
 Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.

H. W. Robertson, 3004 F St., Sacramento.
 N. H. Sjoberg & Son, Call Building, San Francisco.
 U. G. Kenyon, North Sacramento.
 Other bidders reported April 22.

Plans Being Figured.
ADDITION Cost, \$10,000
MODESTO, Stanislaus Co., Cal. High School site.
 One-story brick addition to high school.
 Owner—Modesto Union High School District.
 District—Davis-Pearce Co., Grant and Weber Sts., Stockton.

Preliminary Plans Awaiting Approval.
SCHOOL Cost, \$9000
RICHMOND, Contra Costa Co., Cal.
 One-story and basement frame and stucco school.
 Owner—Sheldon School District.

Architect—James T. Narbett, 474 31st St., Richmond.

Preliminary plans have been forwarded to Sacramento for approval.

Plans Being Figured—Bids Close June 1, 1:30 P. M.

ADDITION Cost, \$10,000
MODESTO, Stanislaus Co., Cal. High School Site.

One-story brick addition to high school.
 Owner—Modesto Union High School District.

Architect—Davis-Pearce Co., Grant and Weber Sts., Stockton.

Bonds Voted—Plans Being Prepared.
SCHOOL Cost, \$30,000
PISMO, San Luis Obispo Co., Calif.
 One-story brick school (3 classrooms, auditorium and kitchen).

Owner—Pismo Elementary School District, Pismo.

Architect—Louis N. Crawford, Gibson-Drexel Bldg., Santa Maria.

Preparing Working Drawings.
SCHOOL Cost, \$85,000
ST. HELENA, Napa Co., Cal.
 One-story reinforced concrete grammar school and auditorium (eight classrooms and auditorium).

Owner—St. Helena Grammar School District.

Architect—Wolfe & Higgins, Realty Bldg., San Jose.

Plans will be ready for bids in about six weeks.

ALAMEDA, Alameda Co., Cal.—Until May 19, 8 P. M., bids will be received by Wm. G. Paden, secretary, Board of Education, Room 3, City Hall to furnish and deliver school furniture, equipment and supplies. Lists of materials desired obtainable from secretary.

Plans Being Prepared.
SCHOOL Cost, \$13,000
BURLINGAME, San Mateo Co., Cal. Howard Avenue.
 Two classroom addition to school.
 Owner—Burlingame Elementary School District.

Architect—E. L. Norberg, 580 Market St., San Francisco.

Plans Being Figured—Bids Close May 25th, 4 P. M.
SCHOOL Cost, \$75,000
CARMEL, Monterey Co., Cal.
 One-story frame and stucco grammar school.

Owner—Sunset School District.
 Architect—Swartz & Ryland, Spazier Bldg., Monterey.

Trustees of the district are: Frederick Bigland, Hester Hall Schoeninger and Clara N. Kellogg.

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Preparing Preliminary Sketches.
BUILDING Cost, \$100,000
SAN FRANCISCO. State Teachers' College (124 Buchanan St.)
 Additional classroom building.
 Owner—State of California.
 Architect—S. Heiman, 605 Market St.

OAKLAND, Alameda Co., Calif.—George Easterly, 5675 Oak Grove, Oakland, at \$7,000 awarded contract by Board of Education, 104 Administration Bldg., 1025 2nd Ave., to install floor and pipe trenches for the Maintenance Shops at NW corner of Wattleling and High Sts.

Following is a complete list of the bids received.
 (1) Add for changing floors from cedar to redwood.
 George Easterly, Oakland, \$6,926; (1) \$64.
 Stricklow & Levole, Alameda, \$7,518; (1) \$27.
 Niles W. Place, Oakland, \$7,800; (1) \$200.
 Contract awarded accepting alternate.

OAKLAND, Cal.—Until May 19, 4 P. M. bids will be received by John W. Edgemond, secretary, Board of Education, 104 Administration Building, Oakland, for exterior painting of Oakland Technical High School. Certified check 10% required with bid. Specifications obtainable from secretary.

OAKLAND, Cal.—Until May 19, 4 P. M., bids will be received by John W. Edgemond, secretary, Board of Education, 104 Administration Building, Oakland, to furnish teachers' desks, oak chairs, tablet arm chairs, Vienna chairs, library tables, typewriter tables for the Fremont High School. Certified check 10% required with bid. Specifications obtainable from secretary.

Preparing Working Drawings.
ADDITION Cost, \$15,000
SANTA ROSA, Sonoma Co., Cal. High School.
 One-story brick addition to high school shop.
 Owner—Santa Rosa High School District, Santa Rosa.
 Architect—William Herbert, Rosenberg Bldg., Santa Rosa.

BANKS, STORES & OFFICES

Segregated Bids Being Taken.
STORE, ETC. Cost, \$—
MONTEREY, Monterey Co., Cal. Alvarado Street.
 Two-story reinforced concrete store building, social hall, etc. (Spanish type).
 Owner—E. B. Gross, Reeside and Wave Sts., Monterey.
 Architect—Swartz & Ryland, Spazier Bldg., Monterey.

Plans Being Revised.
ALTERATIONS Cost, \$2500
OAKLAND, Alameda Co., Cal. Franklin Street.
 Alterations and additions to store (add mezzanine floor, etc.)
 Owner—King-Dawson Co., 1970 Broadway, Oakland.
 Architect—Guy L. Brown, American Bldg., Oakland.

Bids Opened.
ALTERATIONS Cost, \$—
SAN JOSE, Santa Clara Co., Cal. S First St. near San Carlos St.
 Alterations and additions to present 1- and 2-story stores (brick walls and wood interior).
 Owner—Hale Bros. Co.
 Architect—Linder & Curtis, 35 W San Carlos St., San Jose.
 Following is a complete list of bidders:

Henry Bridges, 1388 Lincoln, San Jose \$11,563
 Minton Co., Mt. View 11,991
 R. O. Summers, San Jose 12,412
 Thermotite Const. Co., San Jose 12,924
 Megna & Newell, San Jose 12,950
 Inwiddie Const. Co., S. F. 14,010
 F. T. Edmans, San Jose 14,233
 Bids held under advisement.

Contract Awarded.
OFFICES Cost, \$33,000
SAN FRANCISCO, SW Sacramento and Sansome Streets.
 One-story Class C concrete office building (foundations for garage in basement).
 Owner—American Investment Realty Corp., 343 Sansome St., S. F.
 Architect—W. D. Peugh, 333 Montgomery St., San Francisco.
 Engineer—W. J. O'Brien, 333 Montgomery St., San Francisco.
 Contractor—Cahill Bros., 206 Sansome St., San Francisco.

Heating and Ventilating Contracts Awarded.
STORES Cost, \$1,000,000
OAKLAND, Alameda Co., Cal. NW 28th St. and Broadway.
 Eight-story and basement class A reinforced concrete furniture display rooms and stores, 100x280-ft.
 Owner—Pacific States Auxiliary Corp. Lessee—John Freeman Co., 15th and Clay Sts., Oakland.
 Architect—Albert F. Roller, 1st National Bank Bldg., San Francisco.
 Engineer—H. J. Brunnier, S. H. A. R. O. Bldg., San Francisco.
 Contractor—P. J. Walker Co., Sharon Bldg., San Francisco.
Heating & Ventilating—Herman Lawson, 465 Tehama St., San Francisco.
 Other awards will be reported within a few days.

Tile Bids Wanted.
ALTERATIONS Cost, \$10,000
SAN FRANCISCO, Mission Street bet. 5th and 6th and 6th and 7th Sts.
 Remodel three frame store buildings.
 Owner—Somers Properties.
 Architect—Albert Evers, 525 Market Street.
 Contractor—G. P. W. Jensen, 320 Market Street.
 Work will be started May 4th.

Sub-Contracts Awarded.
STORES Cost, \$12,000
SACRAMENTO, Sacramento Co., Cal. No. 2741 Riverside Blvd.
 One-story store building.
 Owner—O. Seifert, 4757 J St., Sacramento.
 Architect—Not Given.
 Contractor—Campbell Construction Co., 800 R St., Sacramento.
Electrical Work—George C. Poss, 1720 8th St., Sacramento.
Lathing and Plastering—Thomas F. Scollan Co., 2919 T St., Sacramento
Painting—Willcoxon & Wilson, 1724 34th St., Sacramento.
Concrete Aggregates—Sacramento Rock & Sand Co., 1803 23th St., Sacramento.
Cement—Cowell Lime & Cement Co., 509 I St., Sacramento.
Miscellaneous Iron—Palm Iron Works 15th and E Sts., Sacramento.
Mill Work—Friend & Terry Lumber Co., 2nd and S Sts., Sacramento.

Completing Plans.
STORE Cost, \$50,000
SANTA ROSA, Sonoma Co., Calif. 4th Street.
 Three-story brick and concrete store building (salesroom and offices).
 Owner—S. H. Kress and Co., 621 S Broadway, Los Angeles.
 Architect—John Fleming, 1031 South Broadway, Los Angeles.
 Bids to be taken about May 30. The building will have composition roofing, steel sash, hardwood floors, plate glass, etc.

Sub-Contracts Awarded.
ALTERATIONS Cost Approx. \$10,0
SAN JOSE, Santa Clara Co., Cal. N 80 S-Market Street.
 Alterations and additions to present telephone exchange building.
 Owner—Pacific Telephone & Telegraph Co., 140 New Montgomery St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Contractor—R. O. Summers, 17 N-1 St., San Jose.
 The addition will consist of an extension of the third floor to the two story rear part of the building, approximately 64 feet in depth, making the latter a full three-story structure. The construction will be of steel frame concrete and brick.
Reinforcing Steel—W. S. Wettenhall 17th and Wisconsin Sts., San Francisco.

Structural Steel—California Steel Co. Hobart Bldg., San Francisco.
Masonry—J. F. Baker, 1795 Lexington St., San Jose.
Marble—Jos. Musto Sons-Keenan Co. 535 North Point St., San Francisco
Wall and Floor Tile—Thos. H. Price 59 Vine St., San Jose.
Hardware—See Hardware Co.
Glass & Glazing—Cobbleclik Kibb Co., 666 Howard St., San Francisco
Electric Work—Roy Butcher, 102 Sherwood St., San Jose.
Lathing and Plastering—J. C. Chin Mountain View.
Roofing, Dampproofing and Insulation—Bush Roofing Co., St. Claire Bldg., San Jose.
Metal Sash and Sheet Metal—Fire Protection Products Co., 1101 16th St., San Francisco.
Rolling Shutters—Gunn Carle Co., 44 Market St., San Francisco.
Ornamental Iron—Harold Hellwig, 571 W-Santa Clara St., San Jose.
Plumbing and Heating—Herman Moltzen, 85 E-San Fernando St., San Jose.
Painting—Eud Gallichotte, 123 S-Third St., San Jose.

To Be Done By Day's Work By Owner
REMODEL STORE Cost, \$5000
OAKLAND, Alameda Co., Cal. Washington and Twelfth Sts.
 Remodel three-story store.
 Owner—M. C. Harrison, Merchants' Exchange Bldg., San Francisco.
 Architect—Walter Falch, Hearst Bldg., San Francisco.

Preparing Working Drawings.
REMODELING Cost, \$—
NAPA, Napa Co., Calif. Brown and Second Streets.
 Remodel present building for bank.
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of America Bldg., Eddy and Powell Sts., San Francisco.

Sub Contracts Awarded
REMODELING Cost, \$50,000
SAN FRANCISCO, First and Mission Streets.
 Remodel present building.
 Owner—C. C. Moore & Co., Sheldon Bldg., San Francisco.
 Architect—Fred H. Meyer, 525 Market St., San Francisco.
 Contractor—George Wagner, 181 South Park, San Francisco.
Iron Work—Western Iron Works, 141 Beale St., San Francisco.
Orn. Iron—Fergus Ornamental Iron & Bronze Co. 1233 Folsom St., San Francisco.
Heating—Scott Co., 243 Minna St., San Francisco.

Plumbing—Alexander Coleman, 746 Ellis St., San Francisco.
 As prev. reported:
Electrical Work—Decker Electric Co., 538 Bryant St., San Francisco.
 Steel awarded to Western Iron Works, 141 Beale St., San Francisco.

contracts Awarded.
OFFICE BLDG. Cost, \$—
AN LUIS OBISPO, San Luis Obispo Co., Calif.
 One-story concrete and brick and wood frame interior office building (the roof; 6500 sq. ft. area).
 Owner—State of California.

Plans by Division of Architecture, State Department of Public Works Public Works Bldg., Sacramento.

General Work
V. J. Smith, San Luis Obispo...\$21,929

Heating
 Thomas Haverty, Los Angeles...\$2,342
 Electrical Work
 California Electric Co., Santa Barbara.....\$1,196

Plumbing
 Carl T. Doell, 467 21st Street, Oakland.....\$2,054

Preparing Working Drawings.
SALES BLDG Cost, \$250,000
LOS ANGELES, Cal. NE corner Wilshire Blvd. and Mariposa Ave.

Class A steel frame 1-4- and 5-story automobile sales and service bldg. (14195-ft.)

Owner—Auburn-Fuller Co. (E. L. Cord).

Architect—Albert C. Martin, 228 Higgins Bldg., Los Angeles.

Sub-Contracts Awarded.
STORES Cost, \$1,000,000
OAKLAND, Alameda Co., Cal. NW 28th St. and Broadway.

Eight-story and basement class A reinforced concrete furniture display rooms and stores, 100x289-ft.

Owner—Pacific States Auxiliary Corp. Lessee—John Breuner Co., 15th and Clay Sts., Oakland.

Architect—Albert F. Roller, 1st National Bank Bldg., San Francisco.

Engineer—H. J. Brunner, Sharon Bldg., San Francisco.

Contractor—P. J. Walker Co., Sharon Bldg., San Francisco.

Plumbing—Carl T. Doell, 573 Wesley St., Oakland.

Elec. Wiring—NePage-McKenny Co., 125 10th St., Oakland.

File—Rigney Tile Co., 3012 Harrison St., Oakland.

Metal Sash—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.

Sheet Metal—East Bay Sheet Metal Works, 1101 Market St., Oakland.

Plastering—Peter Bradley, 639 Brannan St., San Francisco.

Roofing—Western Roofing Co., 24th & Poplar Sts., Oakland.

Glass—W. P. Fuller Co., 259 Tenth St., Oakland.

Painting—J. A. Turgeon, 2055 Webster St., Oakland.

Granite—McGillvray-Raymond Granite Co., 3 Potrero Ave., San Francisco
 Other awards reported May 2, 1931.

Architect Taking Sub-Bids.
MARKET Cost, \$20,000
SACRAMENTO, Sacramento Co., Cal. SW 11th and O Streets.

One-story brick drive-in market (French farmhouse type).

Owner—Charles W. Hoyer, Jr., Mills Bldg., San Francisco.

Architect—Charles F. Dean, California State Life Bldg., Sacramento.

Sub-Bids Being Taken.
ALTERATIONS Cost, \$5500
SAN FRANCISCO, No. 604 Mission Street.

Alterations to front of office building. Owner—Bothin Real Estate Co., 604 Mission St., San Francisco.

Architect—J. V. D. Linden, 604 Mission St., San Francisco.

Contractor—F. R. Siegrist Co., 604 Mission St., San Francisco.

Owner—S. H. Kress Co., Western Pacific Bldg., Los Angeles.
 Architect—John Fleming, 1031 South Broadway, Los Angeles.
 Contractor—Lindgren and Swinerton, Inc., California State Life Bldg., Sacramento.
 Excavation—J. R. Reeves, 12th and American River, Sacramento.
 Piles—Raymond Concrete Pile Co., Hunter-Dulin Bldg., San Francisco
Structural Steel—Minneapolis Steel & Co., Sharon Bldg., San Francisco.
Reinforcing Steel—Thos. Scollan, 2919 T St., Sacramento.

Date Of Opening Bids Postponed Until May 15th, 3 P. M.

STORES Cost, \$20,000
PACIFIC GROVE, Monterey Co., Cal. One-story and mezzanine floor reinf. Concr. Dept. Store.
 Owner—Rose Bros., Pacific Grove.
 Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

Following contractors will submit bids.
 S. H. Hooke, Monterey.
 C. W. Dempsey, Pacific Grove.
 Fred. McCrary, Monterey.
 Ralph Sharp, Pacific Grove.
 H. D. Coon, Carmel.
 Harold Geyer, Carmel.
 Architect desires bids and information on Neon signs.

Contract Awarded.
BANK Cost, \$25,000
HOLLISTER, San Benito Co., Cal. One-story reinforced concrete bank. Owner—Bank of America.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco.

Contract Awarded.
STORES Cost, \$100,000
LOS ANGELES, Cal. Washington and Menlo Streets.
 Two-story class B brick and steel store.
 Owner—Gore Brothers.
 Lessee—Hill Bros. Furniture Co. Architect—C. A. Balch, Film Exchange Bldg., Los Angeles.
 Contractor—A. V. Perkinson Co., Inc., 3977 S Vermont Ave., Los Angeles.

Contract Awarded.
STORES & OFFICES Cost, \$10,000
SALINAS, Monterey Co., Cal. Two-story frame and stucco stores & offices.
 Owner—Ito & Futamase, Salinas.
 Architect—G. O. Koepf and M. F. Campbell, McDougall Bldg., Salinas.
 Contractor—A. B. McElheran, 147 California St., Salinas.

THEATRES

Sub-Bids Wanted.
ALTERATIONS Cost, \$50,000
OAKLAND, Alameda Co., Cal. No. 445 23rd Avenue.
 Alterations to Class C steel frame and concrete theatre (wood joists).
 Owner—Golden State Theatre & Realty Co., 25 Taylor St., San Francisco.

Architect—Reid Bros., 105 Montgomery St., San Francisco.

Contractor—Alfred J. Hopper, 1769 Pleasant Valley Road, Piedmont.

Structural Steel—Schrader Iron Wks., 1247 Harrison St., San Francisco.

Mill Work—Petersen Mill, Watsonville.

Sash and Doors—Western Door & Sash Co., 5th and Cypress Sts., Oakland.

Sub-bids are wanted on the roofing, plumbing, sheet metal, plastering and tile floors.

Completing Plans.
THEATRE Cost, \$—
LOS ANGELES, Cal. Wilshire Blvd. and Mansfield Ave.
 Reinforced concrete theatre.
 Owner—United Artists Theatres of California, Los Angeles.
 Architect—Walker & Eisen, Western Pacific Bldg., Los Angeles.

Plans Being Re-Figured.
THEATRE Cost, \$50,000
ALAMEDA, Alameda Co., Cal. North Central Ave. W Park St.
 Structural steel frame and reinforced concrete theatre (to seat 2200; 126 by 210 feet).

Owner—Alameda Amusement Co. Architect—Miller & Pfueger, 580 Market St., San Francisco.

Plans have been revised and re-figuring on the revised plans has been limited to the seven lowest bidders in each branch, to wit: General, structural steel, heating, ventilating and electrical work.

Preparing Working Drawings.
THEATRE Cost, \$150,000
SAN JOSE, Santa Clara Co., Cal. NE First and San Salvador Sts.
 Class A theatre building.
 Owner—Mrs. Norman M. Parrott and Morey B. Fleming.
 Lessee—United Artists Corp., 1966 S Vermont St., Los Angeles.
 Architect—Walker & Eisen, 1031 South Broadway, Los Angeles.
 Construction will start in about 60 days.

Contract Awarded.
THEATER & STORES Cost, \$80,000
PASADENA, Cal. Colorado St. east Madison Ave.
 Reinforced concrete theater building (155x66-ft.; seat 900).

Owner—First Trust & Savings Bank. Lessee—United Artists Theatres.
 Architect—Walker and Eisen, C. A. Balch, Western Pacific Bldg., Los Angeles, and Bennett & Haskell, 311 1st Trust Bldg., Pasadena.
 Contractor—R. Westcott Co., 536 So. Broadway, Pasadena.

Plans To Be Prepared.
ALTERATIONS Cost, \$—
SACRAMENTO, Sacramento Co., Cal. K St., bet. 6th and 8th Sts.
 Remodel Sequoia Theatre.
 Owner—Geo. W. Feltner, 2228 21st St., Sacramento.

Architect—Not Selected.
 Renovations will include lowering floor, changing motion picture screen and installing new seating and drapes. The theatre is under lease to Henry Heher.

WHARVES AND DOCKS

LONG BEACH, Calif.—Consulting Engineer R. D. Van Alstine, 410 E 9th St., Long Beach, has completed plans for the new Silver Spray Pleasure Pier that is to extend from Chestnut Place to Cedar Walk for the Neptune Pier Co. It is to be a solid fill type 144 feet long and 461 feet wide and will involve the following:
 60,000 tons of rock;
 650,000 cu. yds. of hydraulic fill;
 2,000 tons of steel;
 3,000 cu. yds. of concrete;
 70,000 lin. ft. of wood piling.
 Work is planned to start about June 1st and will cost approximately \$1,000,000.

OAKLAND, Cal.—Until May 11, 4:30 P. M. bids will be received by G. B. Hegardt, secretary, City Port Commission, 424 Oakland Bank Bldg., to furnish and drive pile foundations for Warehouse "C" Outer Harbor. Specifications obtainable from secretary on deposit of 5, returnable. Certified check 10% required with bids.

Sub-Contracts Awarded.
SHED, ETC. Cont. Price, \$101,480
SAN FRANCISCO. Pier No. 15.
 Shed and bulkhead building (150x300 feet, steel frame construction with concrete walls).
 Owner—State Board of Harbor Commissioners.
 Engineer—Frank White, Ferry Bldg., San Francisco.
 Contractor—E. T. Lesure, 87 Rosa Circle, Oakland.
Structural Steel—Moore Drydock Co., Balfour Bldg., San Francisco.
Reinforcing Steel and Steel Windows—Soule Steel Co., 1750 Army St., San Francisco.
Roofing—Alta Roofing Co., 975 Indiana St., San Francisco.
Plumbing and Sheet Metal—L. A. Von Tagen, 60 Clay St., San Francisco.
Painting—Peterson Bros., 494 36th St., Oakland.

MISCELLANEOUS CONSTRUCTION

Contract Awarded.
REBUILD NATATORIUM \$16,000
 Stockton, San Joaquin Co., Cal. No. 510 N-Aurora Street.
 Rebuild natatorium.
 Owner—Olympic Baths, 510 N-Aurora St., Stockton.
 Architect—Not Given.
 Contractor—Lewis & Green, Bank of Italy Bldg., Stockton.
 Sub-Contracts Awarded.
RECREATION CENTER
 Cont. Price, \$5100
WOODSIDE, San Mateo Co., Cal.
 Recreation center (work involves club room, swimming pool, dressing rooms, kitchen, barbecue pit, aviary, etc.).
 Owner—Withheld.
 Architect—Noble and Archie T. Newsum, Russ Bldg., San Francisco.
 Contractor—F. C. Stolte, 3449 Laguna St., Oakland.
Painting—Nelson & Lishol, 33th St., Oakland.
Roofing—C. L. Frost Roofing Co., Palo Alto.
Plastering—Spann Bros., 2145 Ward St., Berkeley.
Mill Work—Facis Mfg. Co., 354 Hobart St., Oakland.
Brick Work—Fred Koenig, 4413 Ygnacio St., Oakland.
Plumbing—Max Finzel, 2025 Hopkins St., Oakland.
Electric Work—Dimond Electric Co., 2100 Hopkins St., Oakland.

RENO, Nevada—Construction of an open air swimming pool, 68x165-ft., with a bath house to accommodate 165 persons together with other miscellaneous construction, is contemplated for Lawson Springs, operated by John Etchbarren and Felix Turrillas. Materials in connection with the project are now being purchased.

SAN MATEO, San Mateo Co., Cal.—City council extends time for opening bids from May 4 to May 18, 8 P. M., to furnish and install traffic signals at intersection of 12th Ave. and Hobart Ave., with El Camino Real. Certified check 10% required with bid. Specifications on file in office of E. W. Foster, city clerk.

SAN FRANCISCO—Favorable consideration has been given by the State Assembly on the bill permitting a 99-year lease of San Francisco waterfront property for the establishment of a \$70,000,000 union terminal to be financed by Eastern capital. Preliminary plans for the project are said to have been completed by Architect John Mead Howells of New York City. For further details on this project see item under "Miscellaneous Construction," issue of April 30.

Preliminary Plans Completed.
MAUSOLEUM Cost, \$100,000
ALTA MESA Memorial Park, near Mayfield, Santa Clara Co., Calif.
 Arastradero Road.
 Reinforced concrete mausoleum (marble interior, cast stone trim, glass skylight; 400 crypts; 3 rooms for columbarium).
 Owner—Alta Mesa Improvement Co., Arastradero Road, Alta Mesa.
 Architect—Gardner A. Dalley, 425 Mason St., San Francisco.
 Contractor—Meese and Briggs, 1425 Broadway, Burlingame.
 Financial arrangements being made. Construction expected to begin by October 1.

SAN MATEO, San Mateo Co., Cal.—City Improvement Co., 2055 Center St., Berkeley, at \$1,999 submitted low bid to city council to furnish and install traffic signals at intersection of 12th Ave. and Hobart Ave. with El Camino Real. Complete list of bids follows:
 City Improvement Co. \$1,999
 Butte Elec. & Mfg. Co. 2,086
 Alternate bid 1,730
 L. N. Zant, San Mateo 2,695
 Atlas Elec. Co., San Mateo 2,989
 Bids taken under advisement.

Marble Contract Awarded.
COLUMBARIUM Cost, \$9000
CYPRESS LAWN CEMETERY, Colma San Mateo Co., Cal.
 Marble columbarium.
 Owner—Julian Thorne.
 Architect—Farr & Ward, 68 Post St., San Francisco.
 Marble—Eisele & Doudero, 2895 3rd St., San Francisco.

STOCKTON, San Joaquin Co., Cal.—City Engineer Lyle Payton, has completed plans for ornamental fencing at the east end of Yosemite Lake in American Legion and a call for bids will be issued by the city council in the immediate future.

MISCELLANEOUS SUPPLIES AND MATERIALS

FRESNO, Fresno Co., Cal.—Until May 14, bids will be received by Harry Foster, city clerk, to furnish and deliver one billing machine for the Municipal Water Department; estimated cost \$3,000. Further information obtainable from clerk.

BERKELEY, Alameda Co., Calif.—Until May 18, 8 P. M., bids will be received by Clara F. Andrews, secretary, Board of Education 2225 Milvia St., to furnish and deliver fuel oil and coal for school year 1931-1932. Specifications obtainable from secretary.

BERKELEY, Alameda Co., Calif.—Until May 19, 10 A. M., bids will be received by Florence E. Turner, city clerk, to furnish electric lamps for commercial, residential and street lighting, in the amount of \$2,500, to be delivered during the fiscal year commencing July 1, 1931. Forms for bidding obtainable from city clerk.

BUSINESS OPPORTUNITIES

Names and addresses of persons or firms concerned in the following opportunities will be furnished on request to Business Opportunity Department, Daily Pacific Builder, 547 Mission St., San Francisco, or phone GARfield 8744.

21050—Timber, San German, Porto Rico. Party wishes to be put in touch with exporters of rough and planned timber of the dimensions exported to Porto Rico. References available.

21055—Abrasive Products, San Francisco. Firm in Bovisa (Milano), Italy, desires connections with im-

porters or manufacturers who may be interested in the purchase of abrasive products, including glass paper, a emery cloth, steel centre wheels, etc.
31056—Manganese Ore, Bombay, India. Exporters of Central Province manganese ore in suitable monthly deliveries to Bombay or Calcutta is seeking local market. Can agree to c. i. f. delivery to any port, provided hooking of sea freights can be ranged with advantage.

21057—Manganese Dioxide Ore, Bombay, India. Above firm also offers manganese dioxide ore in lumps, containing 82 per cent manganese peroxide, for export.

21066—Machinery, Etc. Guadalupe, Mexico. Party wishes to be put in touch with manufacturers of machinery for cutting of cores plates, for coil winding and for making the outside protection cases, also manufacturers of laminated silicon-steel cores, insulated copper wire for transformers, coil and core insulators such as varnishes, paper and cloth insulator, etc., metallic condenser plates, enamel and perforated sheets for making the exterior covers.

TRADE LITERATURE

Methods of applying Tarvia A and B, Tarvia Retread and Tarvia-Lith are outlined in three recent bulletins published by The Barrett Company, 40 Rector St., New York City.

Information of practical value to the hullier in the construction of a oil heated home or building is contained in the "Handbook of Oil Burning" just published by the American Oil Burner Association. In addition to authoritative information charts, tables and descriptive illustrations relating to the use of oil as fuel, the book discusses installation and construction details, ordinances and regulations on oil burners and equipment, tank installations, the determination of heating capacity requirements and the construction of the basement. A wealth of general information such as the chemistry of combustion, the flame fundamentals of heat and heat transfer, comparative fuel costs and like subjects also is included. Printed in pocket size for convenience, the new handbook contains 629 pages including 123 tables and 355 illustrations and charts spread over 24 chapters. It can be had (\$3.00) at the Association headquarters, 342 Madison Avenue, New York.

Cleveland Rock Drill Co., 3734 East 78th St., Cleveland, Ohio, has issued a 122-page pocket-size illustrated volume, "The Driller's Handbook," compiled by E. L. Oldham and selling at \$1 per copy. This is designed for the use of drill operators and takes up the subjects of lubrication, operation, shanks and bits, hose and couplings, modern rock drill types and explosives and blasting. Many illustrations are included.

"Concrete Facts for Concrete Contractors" is a new 48-page booklet which has been published by the Portland Cement Association, 33 W. Grand Ave., Chicago. It deals with concrete making, including facts on colored concrete, special surface finishes, forms, watertight concrete and cold weather construction. The methods described are thoroughly practical and are being used by an increasing number of present-day contractors.

Engineering News Section

BRIDGES

VENTURA COUNTY, Calif.—Until 7 P. M., bids will be received State Highway Commission to construct a deck plate girder bridge across the Santa Clara river, about 1.5 mile south of Montalvo, consisting of twenty-one 36-ft. spans on concrete piers and abutments.

SAN FRANCISCO—Until May 20, 10 P. M., bids will be received by J. Hester, Secretary, Board of Public Works, to construct the Sloat elevated viaduct at the crossing of the Sloat Boulevard; estimated cost \$10,000.

- Project involves:
- 1) 28,500 cu. yds. excavation;
 - 2) 4,150 cu. yds. Class B 2500-lb. concrete in viaduct, piers, abutments, walls, etc.
 - 3) 43 cu. yds. Class A 300-lb. concrete in railing;
 - 4) 840,000 lbs. bar reinf. steel;
 - 5) 16,000 sq. ft. — point 1½" concrete wearing surface; 1½" binder;
 - 6) 13,300 lbs. bronze bearing plates;
 - 7) 63,800 sq. ft. 3-ply waterproofing membrane with asph. protective coat;
 - 8) 18,700 sq. ft. 8" waterproofing macadam pavement with 2-in. asph. conc. wearing surface;
 - 9) 373 lin. ft. 15" VCP storm drain;
 - 10) 595 lin. ft. 12" VCP storm drain;
 - 11) 110 lin. ft. 10" VCP culverts;
 - 12) 5 brick manholes;
 - 13) 4 brick catchbasins;
 - 14) electrical work including electricals (lump sum bid).

Certified check 10% payable to Clerk of the Board of Supervisors required bid. Plans obtainable from the Bureau of Engineering, 3rd Floor, City Hall, on deposit of \$10, returnable.

LOS ANGELES, Cal.—Until 2 P. M. ay 18, bids will be received by county supervisors to widen the bridge on Huntington Drive, over Santa Anita Wash. This bridge will be located partly in Monrovia and partly in Aradale. The county will pay all costs. The structure is a reinforced concrete girder bridge, consisting of six 30-ft. spans. The roadway will be widened on each side to increase the roadway width from 26 ft. to 70 ft. There will be a 5 ft. walk on each side. W. D. Armstrong, county bridge engineer, 303 Hall of Records, county clerk.

SAN DIEGO COUNTY, Cal.—David Johns, Santa Monica, at \$138,678 awarded contract by State Highway Commission to construct a reinforced concrete girder bridge across San Delgado river about 1 mile north of Del Mar, consisting of eleven 54-ft. spans on concrete piers and abutments with wing walls, all on pile foundations. All bids published in issue of April 19.

PLACER COUNTY, Cal.—George J. Birch Const. Co., Modesto, at \$13,973 awarded contract by State Highway Commission to construct a reinforced concrete girder bridge across Coon Creek, 3.6 miles north of Lincoln, consisting of six 34-ft. 6-in. spans on reinforced concrete pile bents. Unit bids published in issue of April 23.

SAN FRANCISCO—State Senate has passed bill providing a state loan of \$650,000 for preliminary engineering work in connection with the San Francisco Bay Bridge, a \$75,000,000 project. These funds will be returned to the state from the first sale of bridge revenue bonds.

VISALIA, Tulare Co., Cal.—Pacific Properties and Construction Co., 3747 Woodruff ave., Oakland, at \$12,972.83 for labor only, (material to be furnished by the county, estimated at \$12,584.35) awarded contract by county supervisors to construct reinforced concrete bridge No. 90 in Dinuba Blvd., over St. Johns River, involving:

- (1) 576.69 cu. yds. class A concrete, including excavation;
 - (2) 47.99 cu. yds. class B concrete;
 - (3) 458.95 cu. yds. class A concrete in pavement;
 - (4) 1632 lin. ft. concrete piling (driving only);
 - (5) 4500 cu. yds. earth fill, approaches (6) detour (lump sum bid).
- All the material to be used in the construction of the bridge will be furnished by the County of Tulare i. o. b. Visalia siding either of the Southern Pacific Railroad or of the Santa Fe Railroad. Complete list of bids follows:
- | | |
|---|-------------|
| Pacific Properties and Construction Co., Oakland..... | \$12,972.83 |
| Fred Kame, Visalia | 17,703.35 |
| C. L. Clark & C. E. Dougherty, Visalia | 18,050.47 |
| G. A. Graham, Bakersfield..... | 18,656.02 |
| Earl Bowen, Strathmore | 18,792.97 |
| R. Hodgson and Sons, Porterville | 19,655.46 |

TRINITY COUNTY, Calif.—Whited & Whited, Santa Rosa, at \$7,924 awarded contract by State Highway Commission to construct a reinforced concrete girder bridge across Browns Creek, consisting of one 32-ft. 6-in. span on concrete abutments with wing walls.

SHASTA COUNTY, Calif.—J. P. Brennan, Redding, at \$49,161 awarded contract by State Highway Commission to construct bridge across Clear Creek about 5 miles south of Redding, consisting of two 50-ft. steel stringer spans on concrete piers with pile foundations and eleven 42-ft. steel stringer spans on concrete pile bents.

HUMBOLDT COUNTY, Calif.—Smith Bros. Co., Eureka, at \$106,150, awarded contract by State Highway Commission to construct a bridge across South Fork of Eel River at Dyerville, consisting of one 290-ft. thru steel truss span, two 50-ft. reinforced concrete girder spans, four 45-ft. 6-in. reinforced concrete girder spans and one 33-foot reinforced concrete girder span on concrete piers, concrete bents and a concrete abutment.

SAN JOSE, Santa Clara Co., Cal.—Until May 25, 5 P. M., bids will be received by C. E. Goodwin, city manager, to construct reinforced concrete bridge over Guadalupe river at Home-West Virginia Streets. Certified check 10% payable to city required with bid. Plans obtainable from Wm. Popp, city engineer, on deposit of \$10, of which \$5 is returnable.

TRINITY COUNTY, Cal.—F. H. Nielson, Orland, at \$38,089 submitted

low bid May 6 to State Highway Commission to construct bridge across North Fork of the Trinity River near Helena, composed of one 150 ft. through steel truss span and two 47 ft. 2 inch concrete girder spans on concrete piers and abutments. Complete lists of bids follow:

F. H. Nielson, Orland.....	\$38,089
A. T. Howe, Santa Rosa.....	42,581
Alph McLeran Co., S. F.....	43,483
P. J. Maurer, Eureka.....	43,658
J. Berlinger, Orland.....	45,672
R. B. McKenzie, Red Bluff.....	55,700
A. Young, Yreka.....	Not totaled

DREDGING, HARBOR WORKS & EXCAVATIONS

LONG BEACH, Calif.—Consulting Engineer R. D. Van Alstine, 410 E 9th St., Long Beach, has completed plans for the new Silver Spray Pleasure Pier that is to extend from Chestnut Place to Cedar Walk for the Neptune Pier Co. It is to be a solid fill type 1464 feet long and 461 feet wide and will involve the following:

- 50,000 tons of rock;
- 650,000 cu. yds. of hydraulic fill;
- 2,000 tons of steel;
- 9,000 cu. yds. of concrete;
- 70,000 lin. ft. of wood piling.

Work is planned to start about June 1st and will cost approximately \$1,000,000.

SACRAMENTO, Cal.—American River Flood Control District will vote in June on the proposal to issue bonds of \$775,000 to finance flood control work in the American River. The total cost of the work is estimated at \$1,225,000 of which the state and federal governments will each pay \$175,000 and the city of Sacramento approximately \$150,000.

IRRIGATION PROJECTS

TURLOCK, Stanislaus Co., Cal.—H. Johansen, Turlock, at \$1,159.56 awarded contract by Turlock Irrigation District for improvements in Improvement District No. 64, involving: 11,872.2 sq. ft. 2-in. concrete canal lining; 4 concrete structures, involving 5.27 cu. yds. concrete; 5 concrete structures involving 5 cu. yds. concrete. This work will be paid for in cash by property owners.

TURLOCK, Stanislaus Co., Cal.—Aldrin & Anderson, Turlock, at \$2,248.06 awarded contract by Turlock Irrigation District for improvements in Improvement Dist. No. 23, involving: 17,670 sq. ft. 2-in. concrete canal lining; 4 concrete structures, involving 4.74 cu. yds. concrete; 17 concrete structures, involving 17 cu. yds. concrete.

TURLOCK, Stanislaus Co., Cal.—H. Johansen, Turlock, at \$435.45 awarded contract by Turlock Irrigation District for improvements in Improvement Dist. No. 77, involving 705 lin. ft. 20-inch diameter concrete pipe.

STREET LIGHTING SYSTEMS

SAN FRANCISCO—Alta Elec. Co., Inc., 938 Howard St., at \$14,840 awarded contract by Board of Public Works to install street lighting system in Junipero Serra Blvd.

SAN FRANCISCO—Widental-Gosliner Electric Works, 353 10th St., at \$4,024 awarded contract by Board of Public Works to install street lighting system in Portola Drive between 24th Street and Evelyn Way.

MACHINERY AND EQUIPMENT

SACRAMENTO, Cal.—Until May 7, 8:15 P. M., bids will be received by H. G. Denton, city clerk to furnish and deliver one six- or eight-cylinder 4-door sedan automobile. Cert. check 5% payable to City Controller required with bid. Specifications obtainable from clerk.

OAKLAND, Calif.—Allis-Chalmers Mfg. Co., Rialto Bldg., San Francisco, at \$2,645, with pump add \$50, submitted low bid to East Bay Municipal Utility District to furnish and deliver one 30-hp. caterpillar tractor. Robinson Tractor Co., 1705 E 12th St., Oakland, at \$2,700 only other bidder. Taken under advisement.

RAILROADS

SAN FRANCISCO—Market Street Railway Co., 58 Sutter st., authorized by supervisors to extend its Turk street line out Turk and Balboa Sts., a distance of miles. In understanding that the railway company pay \$17,000 for reduction of the grade on Turk St., between Broderick and Baker Sts., and the grade at 24th Ave. and Balboa St. The line is to extend to a point between 30th and 31st Aves.

EQUIPMENT

LIVERMORE, Alameda Co., Calif.—H. L. Anderson Co., Berkeley, at \$2,500 submitted low bid to city council to furnish one combination hose wagon and pump for fire department. Other bids, all taken under advisement, were: Pacific Fire Extinguisher Co., San Francisco, \$2,675; S. S. Albright Co., Sacramento, \$3,050.

PIPE LINES, WELLS, ETC.

SAN FRANCISCO—Time for opening bids to construct the San Joaquin Valley Pipe Line in connection with the Hetch Hetchy project has been extended by the Board of Public Works from May 6 to May 20. A complete list of the quantities involved in this project will be found in a separate article on page five of this issue.

KETTLEMAN HILLS, Cal.—Macco Construction Co., 815 Ocean Ave., Clearwater, awarded contract by Kettleman North Dome Association, 719 Richfield Oil Bldg., Los Angeles, at about \$30,000 to construct pipe line extensions in Kettleman Hills in connection with pipe line and storage project of the association which embraces fifteen of the leading oil companies operating in that field. The pipe has been purchased by the association.

Contract for the pipe has been awarded as follows:
Western Pipe & Steel Corp., Los Angeles—7500 ft. 16-in., 3-16-in., 2000 ft. 14-in., 3-16-in., 2500 ft. 12-in., 3-16-in., and 3500 ft. 16-in. No. 10; pipe to be butt welded in the shop with lap welding in the field.

Western Pipe Steel of San Francisco—6000 ft. 16-in., 3-16-in.
A. O. Smith Corp., Los Angeles—4500 ft. of 12-in. and 14-in. pipe.

The Republic Steel Corp. was also given a portion of the pipe order.

SANTA BARBARA, Calif.—Lyons Bros., 1363 S Carmona Ave., Los Angeles, submitted low bid to city council at \$4119 for drilling and casing one gravel envelope well for the water department. The contract may call for one or more but not more than six such wells. Other bids were: Roscoe Moss Co., \$4873; Hatherly & Palm, \$5034; Western Well Drill Co., \$7,089. Taken under advisement.

SEWERS AND SEWAGE DISPOSAL PLANTS

LONG BEACH, Cal.—The Long Beach City Council has selected vitrified clay pipe of heavy type, for the North Long Beach sewer system. Plans and specifications for this system, estimated to cost between \$500,000 and \$700,000, have been completed by the City Engineer H. Paterson. The project involves about 90 miles of trenching. The city council is discussing a proposal to use local unskilled instead of machinery in trench work.

PASADENA, Los Angeles Co., Cal.—City Engineer Geo. K. Hooper is preparing specifications for the installation of a new compressor to be installed at the sewage disposal plant. The cost is estimated at \$20,000.

MONTREY, Monterey Co., Cal.—City council has started proceedings for the installation of a sewer system in Oak Grove, west of Park Ave. An improvement district will be organized to finance construction.

CAPITOLA, Santa Cruz Co., Cal.—Election will be held May 12 in Capitola-Soquel Sanitary District to vote bonds of \$56,000 to finance construction of a trunk line sewer and sewage outlet 1500 ft. from the shore at Monterey Bay.

FRESNO, Fresno Co., Calif.—Until May 14, 10:30 A. M., bids will be received by H. S. Foster, city clerk, (110-D) to construct 6-inch vitrified clay pipe sewer in portions of Belmont Ave., including 4-in. vit. clay pipe connections; 2 concrete manholes with c.i. frames and covers; 4-in. on 8-in. wye branches. 1911 Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk, Jean L. Vincenz, city engineer.

FAIRFIELD, Solano Co., Cal.—Election will be held May 25 to vote bonds of \$8,000 to finance reconstruction of outfall sewer. A. M. Jensen, engineer, 68 Post St., San Francisco.

BRAWLEY, Imperial Co., Cal.—City will call election to vote bonds of \$30,000 to finance extensions to sewer system.

SANTA MARIA, Santa Barbara Co., Cal.—Until May 18, 7:30 P. M., bids will be received by city clerk, to construct vitrified sewer extension in North Broadway. The project will be financed in two units, a portion under the 1911 Bond Act and a portion from the City Treasury, as follows:

- 1911 Bond Act
(1) 5650 ft. 6" vitrified clay pipe sewer
(2) 465 ft. 3" vitrified clay pipe sewer
(3) 519 ft. 10" vitrified clay pipe sewer
(4) 16 manholes;
(5) 4 flush tanks;
(6) 2 lampholes.
To Be Financed From City Treasury
(1) 1540 ft. 12" vitrified clay pipe sewer;
(2) 1941 ft. 10" vitrified clay pipe sewer;
(3) 341 ft. 6" vitrified clay pipe sewer;

- (4) 500 ft. 4" cast iron pressure e;
(5) 10 manholes;
(6) small pumping plant.
Certified check 10% payable to city of Santa Maria required with bid. Plans obtainable from city clerk in payment of \$10, not returnable. Jk Peterson, city engineer.

STOCKTON, San Joaquin Co., Cal.—M. McGraw, 425 Lexington A., Stockton, at \$4,622.92 awarded contract by city council to construct storm water sewers in portions of Ison, San Joaquin and Center Sts. Complete tabulation of unit bids received on this project published in issue of April 29.

MISCELLANEOUS CONSTRUCTION

OAKLAND, Calif.—County supervisors have appropriated \$200,000 toward construction of the proposed level tunnel between Alameda and Contra Costa Counties. The money available from the gasoline tax fund for plans for the tunnel are being passed by County Surveyor George Posey.

ESTACADA, Ore.—Sullivan a Doyle, Oregon City, awarded contracts by Portland Electric Power Co., to construct 4-miles tunnel through O. Grove Mountain to bring water from the upper fork of the Clackam river to the dam in Oak Grove river to generate power. The power company will spend about \$300,000 in the work this year. The Sullivan at Doyle contract calls for 3,500-fe. of 21,000-ft. tunnel. It will be about 1 1/2 m. in dia. with a drop of 1-ft. in each 1,000 ft. and will allow a flow of 300-second feet of water. Work under the supervision of W. L. Sharp of the Portland Electric Power Co.

SAN JOSE, Santa Clara Co., Cal.—Engineering Department of the Southern Pacific Railroad, 65 Market Street, San Francisco, is preparing plans for the second subway in the S. P. re-location project in The Alameda. Bid for construction will be asked with the settlement of property suits which can be adjusted, City Manager C. B. Greenley has declared with 24 hours after acceptance of the plans from the railroad by the city council.

WATER WORKS

EXETER, Tulare Co., Cal.—Until May 18, 5 P. M., bids will be received by T. E. Awhrey, city clerk, to furnish and install one deep well turbine pump, one horizontal centrifugal booster pump and testing and developing one well. This work will be financed from the \$24,000 bond issue recently declared by the city trustees. Certified check 5% required with bid. Specifications on file in office of city clerk.

SAN FRANCISCO—Time for opening bids to construct the San Joaquin Valley Pipe Line in connection with the Hetch Hetchy project has been extended by the Board of Public Works from May 6 to May 20. A complete list of the quantities involved in this project was published on page five, issue of May 1.

SAN MATEO COUNTY, Calif.—See "Streets and Highways," this issue. Bids wanted May 27 by State Highway Commission to construct under-grade crossing near Henderson Station, including installation of drainage system, pumping equipment and grading and paving 0.4 mile.

STOCKTOGA, Napa Co., Calif.—City bonds of \$18,000 to finance improvements to water system, involving construction of a pipe line to cost \$10,000 and improvements to reservoir at Sage Canyon to cost \$3,000.

SAN FRANCISCO.—Consolidated S. Corp., 273 Seventh St., at \$77,070 awarded contract by Board of Public Works to construct Section No. 1 of the University Mound Pipe Line. Complete list of unit and total bids received on this project published in last of April 16.

FRESNO, Fresno Co., Calif.—City Commissioners, at informal meeting, today agreed to provide \$50,000 in the 1931-32 budget to finance additions and betterments to the municipal water system, Jean L. Vincenz, city engineer and Claude Weekes, manager of the water system.

SAN FRANCISCO.—See tentative building program story on page one of this issue. Construction contemplated by the California State Board of Labor Commissioners. Frank G. White, chief engineer of the commission, Ferry Bldg., San Francisco.

SANGER, Fresno Co., Cal.—Until May 19, 3 P. M., bids will be received in Frank Niles, City Clerk, to furnish and install deep well turbine pump on cement foundation at Plant No. 2, Block 51, Sanger. Pump for 14-in. standard double well casing; set 100 ft. from base of discharge 10 ft. to top of bowl assembly and equipped with 10-ft. of suction pipe, screen of standard make; electrically controlled automatic oiler to furnished with pump; pump capacity shall not be less than 700 g.p.m. per minute at a total head of 20 feet of which 52 feet will be estimated well head; pump to be direct connected to vertical auto-start electric motor, designed to operate under 220-volts, 3-phase, 60-cycle current, certified check 10% payable to city and paid with bid. Further information obtainable from clerk.

EATTLE, Wash.—Elliott, Stroud & Brook, P. O. Box 158, La Mesa, Cal., 5215 Orcas St., Seattle, at \$384,359 (steel steel pipe) submitted low bid to the city council to construct concrete lined reservoir and concrete foundations for two steel tanks in vicinity of Sixth Ave. southwest and Verdale St. Project involves a 75,000 gallon reservoir and two standpipes, each with a capacity of 1,000-gallons. Following is a complete list of bids, all being taken under advertisement.

Riveted Steel Pipe	
Elliott, Stroud Bros. and Seabrook	\$334,359
Erison-Knudsen Co.	408,367
Frank Const. Co.	412,164
L. Creelman	417,694
Rker-Scheram Co.	421,967
Colucio & Co.	428,473
J. Dowell, Inc.	447,363
W. Quist Co.	451,043
W. Pederson	456,932
San City Const. Co.	457,330
Romand Engr. Corp.	466,627
Guthrie Co., Inc.	474,627
M. Capp	530,592

Lockbar Pipe	
Elliott, Stroud Bros. and Seabrook	\$385,450
Erison-Knudsen Co.	408,092
L. Creelman	418,241
Rker-Scheram Co.	423,067
Colucio & Co.	426,273
J. Dowell, Inc.	447,913
W. Pederson	457,547
San City Const. Co.	457,330
Romand Engr. Corp.	465,527
Guthrie Co., Inc.	475,342

FAIRFIELD, Solano Co., Cal.—Election will be held May 23 to vote bonds of \$42,000 to finance improvements to water system, including sinking new deep well, construct tank and tower, install pump and extend water mains. A. M. Jensen, engineer, 68 Post St., San Francisco.

LINDEN, San Joaquin Co., Cal.—Hearing will be held by the State Bond Commission to consider proposal of the Linden Irrigation District to issue bonds of \$33,000 to finance installation of a pumping plant at Bellota and for other miscellaneous irrigation developments. Fred H. Tibbetts, engineer, Alaska Commercial Building, San Francisco has submitted tentative plans for the contemplated improvements.

BRAWLEY, Imperial Co., Cal.—City will call election shortly to vote bonds of \$20,000 for a water tank in the east section of the city, including pipe connections and \$30, for water extensions.

FRESNO, Fresno Co., Cal.—Until May 14, 10:30 a. m., bids will be received by H. S. Foster, city clerk, for:

One Deep Well Turbine Pump, 700 G. P. M., 150 ft. head with Air line and gauge all installed; with direct connected or built in double end ventilated, or equal, Motor of sufficient H. P., 440 Volt, 3 phase, 60 cycle, 1750 R. P. M. to start directly across line; with G. E. Magnetic Switch or equal, installed complete less electric wiring.

The bids submitted on the above shall be made subject to the condition that the successful bidder shall purchase from the City of Fresno one 8-inch Byron-Jackson Centrifugal Pump, direct connected to 1-100 H. P. C. L. motor, which may be seen at Station No. 15.

Also on Two Deep Well Turbine Pumps, 800 G. P. M., 140 ft. head, with air lines and gauges all installed, with direct connected or built in double end ventilated, or equal, Motor of sufficient H. P., 440 Volt, 3-phase, 60 cycle, 1750 R. P. M. to start directly across line; and with G. E. Magnetic Switch or equal, installed complete less electric wiring.

The bids submitted on the 2 pumps above mentioned shall be made subject to the condition that the successful bidder will purchase from the City of Fresno one 8-inch Byron-Jackson Centrifugal Pump, direct connected to 1-100 H. P. Westinghouse C. L. Motor which may be seen at Station No. 21.

Certified check 10% payable to city required with bid Specifications on file in office of city clerk, Jean L. Vincenz, city engineer, Claude Weekes, manager of municipal water department.

MODESTO, Stanislaus Co., Calif.—Until May 12, 7:30 P. M., bids will be received by H. E. Gragg, city clerk, to furnish two steel sand traps complete. Certified check 10% payable to Mayor required with bid. Specifications on file in office of clerk, Frank J. Rossi, city engineer.

CORCORAN, Kings Co., Cal.—K. S. Battelle, Corcoran, at \$1,122.26 awarded contract by city council to furnish and install one new turbine pump and motor installed complete with wiring and hand starter. Pump to have 150-ft. setting with 20-ft. of suction; capacity of 500-g.p.m. Motor 25-hp., 220-volts, 3-phase. Complete list of bids follows:

K. S. Battelle	\$1,122
Sterling Pump Co., Stockton	1,167
Foma Pump Co., Pomona	1,177
Villeumun & Job Machine, Wks., Porterville	1,313

CORCORAN, Kings Co., Cal.—Grinnell Co., 5th and Brannan Sts., San Francisco, at \$1,638.03 awarded contract by city council to furnish water pipe, as follows:

1,600 ft. 8-in. c.i. bell and spigot pipe, class B;	
304 ft. 6-in. do;	
3 8x8x6-in. tees;	
1 6x8-in. increaser;	
1 8x8x4-in. tee.	

Complete list of bids follows:

Grinnell Company	\$1,638.03
American C. I. Pipe Co.	1,667.76
Pacific States C. I. Pipe Co.	1,689.55
C. G. Claussen Co.	1,709.44
U. S. C. I. Pipe & Fdy. Co.	1,732.23

PLAYGROUNDS & PARKS

STOCKTON, San Joaquin Co., Cal.—City Engineer, Lytle Payton, has completed plans for ornamental fencing at the east end of Yosemite Lake in American Legion and a call for bids will be issued by the city council in the immediate future.

STREETS AND HIGHWAYS

PALO ALTO, Santa Clara Co., Cal.—City council has started proceedings to pave thirteen streets this summer, in accordance with recommendations submitted by J. F. Byxbee, city engineer. The cost is estimated at \$38,750.35, including \$11,900 to be paid by city for improvements involving city property. Plans call for paving with cement concrete pavements, curbs, sidewalks, sewer and water connections, and small extensions to the storm water system. Streets included are: Grant, bet. Second and the Southern Pacific right-of-way; Amherst, bet. Stanford and Cal. Cornin; Baytown, bet. Cowper and Webster; Palo Alto, bet. Middlefield-Fulton and Everett-Guinda; Marlowe, bet. University and Palo Alto; Boyce, bet. Channing and Forest; Melville, bet. Middlefield and Channing.; CeCar, bet. Hopkins and Harker; Pine, bet. Hutchinson and Harker; bet. Hutchinson and Newell; Hopkins between Harriet and Newell; Channing, bet. Melville and Newell; Nevada, bet. High and Ramona.

Portions of streets to be paid for by the city are: Palo Alto, bet. Middlefield-Fulton and Everett-Guinda, \$3500; Channing, fronting Eleanor Park, \$2900; Hopkins, fronting Rinconada Park, \$5500.

PLACER COUNTY, Cal.—Frederickson & Watson & Frederickson Bros., 354 Hobart St., Oakland, at \$147,585 submitted low bid May 6 to State Highway Commission to grade and pave with Portland cement concrete 1.4 miles between Wise Power House and Auburn. Complete list of bids follows:

Frederickson & Watson & Frederickson Bros.	\$147,585
W. H. Hauser, Oakland	161,787
Granfield, Farrar & Carlin, San Francisco	171,307
C. W. Wood, Stockton	174,639
Clark & Henry Co., S. F.	182,063
Geo. Fullock Co., San Francisco	184,422
McCray Co., Los Angeles	195,121
Gist & Bell, Arcadia	209,586

GILROY, Santa Clara Co., Calif.—City Engineer Ray Fisher instructed to prepare plans to pave 30 additional blocks of streets, including Monterey 2nd to north city limits; Monterey 9th to south city limits; Seventh, from Egleberry to Church; Church, 6th to 7th; Rosanna, 6th to 7th; Railroad, Lewis to Old Gilroy; Lewis to Martin; Old Gilroy from Monterey to east city limits, resurfaced, present paving and widen three feet, from Maple St. to city limits; Fourth, from Dowdy to Hanna; and Seventh St. from Monterey to South Pacific property.

MONTEREY COUNTY, Cal.—Pacific Tank Lines, Inc., Los Angeles, at \$9,938 submitted low bid May 6 to State Highway Commission to treat with heavy fuel oil to a width of 8 ft. on each side of the existing pavement, 10.1 miles between Chualar and Salinas. Following is a complete list of bids:

Pacific Tank Lines, Inc., Los Angeles.....	\$ 9,938
C. W. Wood, Stockton.....	15,104
J. F. Knapp, Oakland.....	15,497
Granite Const. Co., Watsonville.....	16,568
F. W. Nighbert, Bakersfield.....	17,305
Cornwall Const. Co., Santa Barbara.....	17,294
C. A. LaBeeze, South Gate.....	18,148
U. E. Lee, San Leandro.....	19,203
W. A. Dontanville, Salinas.....	19,371

SAN MATEO COUNTY, Cal.—Until May 18, 2 P. M., bids will be received by Ino. H. Skeggs, district engineer, State Highway Commission, State Bldg., San Francisco, for cement concrete pavement at the Colma Underpass of the Southern Pacific Railway. Specifications obtainable from district engineer.

SANTA BARBARA, Cal.—Henry C. Dalesi, 1125 Olive St., San Luis Obispo, awarded contract by the county supervisors at \$11,737.56 to improve Turquoise Road, consisting of a graded and drained highway along a foot-hill Blvd., from Cienigtas Road 6300 ln. ft. west.

MONTEREY COUNTY, Cal.—Cornwall Const. Co., 215 E. Mason Street, Santa Barbara, and Granite Const. Co., Watsonville, at \$4,976.40 submitted identical bids to L. H. Gibson, district engineer, State Highway Commission, San Luis Obispo, to treat with heavy fuel oil, 3.5 miles on both sides of existing pavement, between San Lucas and a point 3.5 miles north. Taken under advisement.

SAN JOSE, Santa Clara Co. Cal.—Proceedings are under way by the city council to widen W Santa Clara Street from Market Street to the bridge, including the installation of electroliers. The cost is estimated at \$8.05 per front foot or approximately \$35,000. Wm. Popp is city engineer.

DOUGLAS COUNTY, Nevada—Until May 28, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading Section D of Route 3, Glenbrook National Forest Highway in Tahoe National Forest, 4.164 miles in length, involving:

- 69,000 cu. yds. unclass. excavation;
- 757 cu. yds. unclass. excav. for struc.;
- 20 cu. yds. foundation fill;
- 33,200 sta. yds. overhaul;
- 4.164 miles finish earth graded road;
- 190 cu. yds. class A concrete;
- 64.5 cu. yds. class B concrete;
- 8,000 lbs. reinforcing steel;
- 65 cu. yds. cement rubble masonry;
- 1,582 ln. ft. corr. metal pipe;
- 88 cu. yds. rand-laid rock embankment

70 right of way monuments; 114 ln. ft. tunnel excav. unlined sec.; 50 ln. ft. tunnel excav. lined sec.; 50 ln. ft. class A conc. tunnel lining; 2 stone arch rings complete.

Plans obtainable from engineer on deposit of \$10, returnable, checks for same to be made payable to the Federal Reserve Bank of San Francisco.

WASHOE COUNTY, Nevada—Until May 28, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading sections C and D of Route 1, Lake Tahoe National Forest Highway in the Tahoe National Forest, 3.125 miles in length, involving: 18.66 acres clearing;

28,750 cu. yds. unclass. excavation; 680 cu. yds. unclass. excav. for struc.; 12,290 sta. yds. overhaul;

- 3,125 miles finish earth graded road;
- 12 right of way monuments;
- 268.4 cu. yds. class A concrete;
- 38 cu. yds. class B concrete;
- 24,500 lbs. reinforcing steel;
- 804 ln. ft. corr. metal pipe, remove,
- 2000 ln. ft. existing C.I. pipe.

Plans obtainable from engineer on deposit of \$10, returnable, checks for same to be made payable to the Federal Reserve Bank of San Francisco.

YUBA CITY, Sutter Co., Cal.—S. M. McGowan, 425 Lexington Ave., Stockton, at \$13,100 submitted the only bid to the city council to widen Plumas St. bet. Reeves and Forbes Avenues. Taken under advisement.

SAN FRANCISCO.—Pacific States Construction Co., Call Bldg., at \$38,167.25 submitted low bid to Board of Public Works to pave Section C, Bayshore Blvd. See separate unit bid listing on page five of this issue.

REDWOOD CITY, San Mateo Co., Cal.—Frank Bryant, 2911 23rd St., San Francisco, at \$5,554 awarded contract by county supervisors for grading section of Sneath Road, approximately 3,500-ft. in length. Complete list of bids received follows:

Frank Bryant.....	\$5,554
R. L. Oakley, Palo Alto.....	5,711
W. A. Dontanville, Salinas.....	5,800
Chas. N. Chittenden, Napa.....	6,105
J. S. Baker, Burlingame.....	6,408
Granfield, Farrar and Carlin, San Francisco.....	7,538

MENLO PARK, San Mateo Co., Cal.—City council declares intention (3-1) to open, extend and widen Live Oak Avenue from present SW termination to University Drive, 1915 Bond Act. Hearing May 19. Fannie I. Kurtz, city clerk. Bert J. Mehl, city engineer.

MENLO PARK, San Mateo Co., Cal.—City council declares intention (3-4) to improve Oak Grove Ave., Pine St., Cherry Ave., Laurel St., Ravenswood Ave., Mills St. and Glenwood Ave., involving grading; pave with 1½ inch unclassified asphalt concrete surface on 4-in. waterbound rock base and resurfacing existing pavement with 1½-in. emulsified asphalt; concrete curbs, walks, driveway entrances, vit. clay pipe sanitary sewer connections; corr. iron part circle culverts, 1911 Act. Bond Act 1915. Hearing May 19. Fannie I. Kurtz, city clerk. Bert J. Mehl, city engineer.

BERKELEY, Alameda Co., Calif.—Until May 12, 10 A. M., bids will be received by Florence E. Turner, city clerk, to improve NE corner of Warring and Derby Sts. Certified check 10% payable to city required with bid.

Specifications on file in office of clerk and obtainable from Harry Gooden, city engineer, on deposit of \$10, returnable.

SACRAMENTO, Cal.—Until May 7, 8:15 P. M., bids will be received by H. G. Denton, city clerk, to improve roadway along north side of Willin Lane, from a point from a point 400 ft. vit. 18th St. to west line of Forester Blvd. and entrance to Wm. Land Pk. opposite 18th St. Specifications on file in office of clerk. Fred J. Klaus, city engineer.

MODOC COUNTY, Cal.—Until May 15, 2 P. M., bids will be received by H. S. Conly, district engineer, State Highway Commission Redding, to treat with heavy fuel oil as a dust palliative, 9.5 miles between 9.5 m. west of Alturas and Alturas.

BURLINGAME, San Mateo Co., Cal.—Until May 18, 5 P. M., bids will be received by J. R. Murphy, city clerk, to improve Newhall Road for its full length, involving clearing, grading, in. water bound macadam base w. 2½-in. asphalt surface; bit. macadam walk; cross drain 10-in. concrete pipe, catchbasin; extension of sewer laterals; concrete curb returns. 1. Act. Plans on file in office of clerk.

TEHAMA COUNTY, Calif.—Hestreet & Bell, Marysville, at \$59,400 awarded contract by State Highway Commission to surface with bituminous treated crushed gravel or stone surfacing, 7.3 miles bet. Dales Ran and Paynes Creek. Unit bids published in issue of April 29.

PLUMAS COUNTY, Cal.—Chigris Sutos, 1211 18th St., San Francisco, at \$69,154 awarded contract by State Highway Commission to grade 1 mile between Spanish Creek and on mile south of Keddle. Unit bids published in issue of April 29.

HUMBOLDT COUNTY, Cal.—Hestreet & Bell, Marysville, at \$82,600 awarded contract by State Highway Commission to improve 10 miles highway between Loleta and ½ mile south of Eureka, 5.3 miles to be surfaced with bituminous treated crushed gravel or stone and 4.7 miles to be widened with bituminous treated crushed gravel or stone borders. Unit bid published in issue of April 29.

SALINAS, Monterey Co., Cal.—Until May 18, 7:30 P. M., bids will be received by M. R. Keef, city clerk (95) to improve portions of So. Mal St. bet. Geil St. and Romie Lane, in involving grading; hy. cem. conc. curbs sidewalks; 6-in. hyd. cem. conc. paving. Est. cost, \$10,500. 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk and obtainable from Howard Cozzens, city engineer.

CONTRACTORS' MACHINE WORKS

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Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipment;

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San Francisco

TUOLUMNE & MARIPOSA COUNTIES, Cal.—Basalt Rock Co., Napa, at \$1,890.60 awarded contract by State Highway Commission for furnishing and applying light and heavy fuel oil as a dust palliative on 35.9 miles between Merced Hotel and Yosemite National park.

TUOLUMNE - CALAVERAS AND PLUMES COUNTIES, Cal.—Until May 11, 2 P. M., bids will be received by E. Pierce, district engineer, State Highway Commission, State Office Bldg., Sacramento, to treat with light and heavy fuel oil, 25 miles between Long Barn and the foot of the Soledad Pass Grade in Tuolumne County and 19.6 miles in Calaveras and Plumes counties, between Big Trees and Lake Alpine. Specifications obtainable from engineer.

ALPINE COUNTY, Calif.—Basalt Rock Co., Napa, at \$2,822.50 submitted bid April 30 to R. E. Pierce, district engineer, State Highway Commission, Sacramento, for treating with light and heavy fuel oil as a dust palliative, 10.6 miles between Hangman's bridge, approximately 2 miles southeast of Markleeville and the State Highway Camp, approximately 2 miles northwest of Woodfords. Complete list of bids follows:
 Basalt Rock Co., Napa.....\$2,822.50
 E. Lee, San Leandro.....2,950
 Pacific Tank Lines Inc., L. A.....3,164
 J. McDonald, Sacramento.....3,181
 Bids held under advisement.

LODI, San Joaquin Co., Cal.—Until May 11, 8 P. M., bids will be received by J. B. Blakely, city clerk (12) to improve Cherokee Lane, involving: (prices quoted are engineer's estimate.)
 (1) 322,000 sq. ft. grading, at \$0.15.
 (2) Cement Concrete Paving
 (3) 108,000 sq. ft. slab, 10-ft. wide, by 9-7-9-in. thick, at \$20.
 (4) 108,100 sq. ft. slab, 10-ft. wide, by 9-6-8-in. thick, at \$18.
 (5) 89,950 sq. ft. slab, 7.5-ft. wide, by 8-5-8-in. thick, at \$16.
 (6) 103,350 lin. ft. curbs, rolled and integral, at \$40.
 (7) 148,200 lbs. reinforcing steel, etc., at \$0.05.
 (8) 903 lin. ft. concrete pipe sewers, at \$90.

Work under Boundary Line Act of 1911. Bonds under April 7, 1931 Act, Part 3. Estimated cost \$72,654.70. Certified check 10% payable to Mayor required with bid. Plans on file in office of clerk and obtainable from Edw. Hussey, city engineer (Hussey & Belcher), 719-720 Syndicate Bldg., Oakland.

AMADOR COUNTY, Calif.—Basalt Rock Co., Napa, at \$7,881.25 awarded contract by State Highway Commission to treat with light and heavy fuel oil as a dust palliative, 34.3 miles between Chapmans and Silver Lake.

LASSEN & SIERRA COUNTIES, Cal.—Basalt Rock Co., Napa, awarded contract by State Highway Commission to treat with heavy fuel oil as a dust palliative, 42.2 miles between two miles west of Milford and Doyle and between Long Valley Creek and the Nevada State Line.

TULARE COUNTY, Calif.—Union Paving Co., Call Eidge, San Francisco, at \$305.61 awarded contract by State Highway Commission to grade and pave with asphalt concrete 12.1 miles between Goshen and Kingsburg.

SISKIYOU COUNTY, Cal.—D. McDonald, 1118 G Street, Sacramento, awarded contract by State Highway Commission, Redding, to treat with heavy fuel oil as a dust palliative, 21 miles between Shasta river and Walker Station.

SAN MATEO COUNTY, Cal.—Until May 27, 2 P. M., bids will be received by State Highway Commission to construct an undergrade crossing under the tracks of the Southern Pacific Railroad near Henderson Station, consisting of two concrete abutments with wing walls, installing drainage system and pumping equipment, and grading and paving approximately 0.4 miles of roadway with Portland cement concrete.

SAN JOAQUIN COUNTY, Cal.—Until May 27, 2 P. M., bids will be received by State Highway Commission to improve highway between Turner Station and Stockton, 7.1 miles to be graded and 4.3 miles to be paved with Portland cement concrete.

IMPERIAL COUNTY, Calif.—Until May 27, 2 P. M., bids will be received by the State Highway Commission to widen with asphalt concrete, 21 miles between East High Line Canal and Sand Hills.

SUTTER-BUTTE COUNTIES, Cal.—Until May 27, 2 P. M., bids will be received by State Highway Commission to place bituminous treated rock borders on 19.2 miles between Yuba City and Biggs Road.

BERKELEY, Alameda Co., Calif.—Until May 12, 10 A. M., new bids will be received by Florence E. Turner, city clerk, to construct pathway between Euclid and Hildale Aves., involving:
 (1) 40 cu. yds. excavation;
 (2) 40 cu. yds. concrete;
 (3) 1800 lbs. reinforcing steel.

H. J. Marin, Berkeley, was previous low bidder at \$900. The bids were rejected. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Harry Goodridge, city engineer. (Complete list of unit bids previously received on this project published in issue of April 1931.)

SACRAMENTO COUNTY, Cal.—Edward R. Jameson, Box 853, Sacramento, desires to submit sub-bids for fencing in connection with 7.2 miles of state highway between Brighton and Mills in Sacramento county, bids for which will be opened May 20. The fencing contract involves: 0.2-miles move and reset property fences; 6-miles of new property fence and installation of 30 gates. Contractors figuring this project may obtain sub-bids from Jameson at the above address.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, completes specifications to improve 35th Ave., between Judah and Kirkham Sts.; estimate cost \$750. Project involves:
 (1) 75 lin. ft. armored concrete curb;
 (2) 50 lin. ft. 6-in. V.C.P. side sewer;
 (3) 1500 sq. ft. asphalt concrete pavement, consisting of 2-in. asph.

conc. surface on 6-in. Class F concrete base.

SAN FRANCISCO—Until May 20, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve crossing of Fitzgerald Ave. and Jennings St., and Jennings St., bet. Fitzgerald and Gillman Aves., involving:
 (1) 195 lin. ft. armored concrete curb;
 (2) 660 sq. ft. 1-course concrete sidewalk;

(3) 4 brick catchbasins;
 (4) 90 lin. ft. 10-in. V.C.P. culverts;
 (5) 32 lin. ft. 12-in. V.C.P. sewer;
 (6) 68 lin. ft. 6-in. V.C.P. side sewer;
 (7) 113 sq. ft. asphalt concrete pavement, 2-in. asph. conc. surface on 6-in. Class F concrete base.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall.

SAN FRANCISCO—Until May 20, 2:30 P. M., bids will be received by S. J. Hester, Secretary, Board of Public Works, to improve crossing of Quintara and 33rd Ave. and Quintara St., between 33rd and 34th Avenues, involving:
 (1) 660 cu.yds. excavation;
 (2) 94 lin. ft. armored concrete curb;

(3) 3 brick catchbasins;
 (4) 105 lin. ft. 10" V.C.P. culvert;
 (5) 345 lin. ft. 21" V.C.P. sewers;
 (6) 16 Y or T branches on 21" V.C.P.
 (7) 40 lin. ft. V.C.P. sewer;
 (8) 3 brick manholes;
 (9) 660 sq. ft. 1 course concrete sidewalk;
 (10) 4893 sq. ft. asphalt concrete paving, consisting of 2" asphalt concrete wearing surface and 6" Class F concrete base.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall.

SAN FRANCISCO—Until May 20, 2:30 P. M., bids will be received by S. J. Hester, Secretary, Board of Public Works, to improve Ingerson Ave., between Ingalls and Hawes Sts., and intersection of Redondo Ave., involving:
 (1) 3,180 cu. yds. excavation;
 (2) 1,103 cu. yds. embankment;
 (3) 1,217 lin. ft. concrete curb;
 (4) 475 lin. ft. 6-inch V.C.P. side sewer;

(5) 10,965 sq. ft. 1-course concrete sidewalk;
 (6) 2 brick catchbasins;
 (7) 59 lin. ft. 10-in. V.C.P. culverts;
 (8) 6.75 cu. yds. Class B concrete in steps;
 (9) 212 lbs. bar reinforcing steel;
 (10) 21,997 sq. ft. asphalt concrete pavement, 2-in. asph. conc. surface on 6-in. Class F concrete base;

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Class Pacific Coast Construction

FOR BRICK MORTAR, WHITE COAT AND SAND FLOAT FINISH

Sold by Representative Dealers Everywhere

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd Floor, City Hall.

CHURCHILL COUNTY, Nevada.—Dodge Bros., Inc., Fallon, Nev., at \$59,922.80 awarded contract by State Highway Commission for grading, construction of structures and placing surfacing material between 5 miles south of Fallon and Salt Wells, 10.14 miles in length.

CLARK COUNTY, Cal.—Pat Cline, Inc., Las Vegas, at \$84,642.25 awarded contract by State Highway Commission for grading, construction of structures and placing surfacing material between 10 miles southeast of Las Vegas and Boulder City, 11.01 miles in length.

LYON COUNTY, Nevada.—Nevada Rock & Sand Co., Inc., Reno, at \$65,680.29 awarded contract by State Highway Commission for grading, construction of structures and placing surfacing material between 5 miles north of Fernley and the Lyon-Churchill county line, 8.61 miles in length.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, completes specifications to improve Sixteenth Ave., between Vicente and Wawona Sts.; estimated cost \$2000. Project involves:

- (1) 150 lin. ft. armored concrete curb;
- (2) 504 sq. ft. 1-course concrete sidewalk;
- (3) 20 lin. ft. 6-in. V.C.P. side sewer;
- (4) 3 brick catchbasins;
- (5) 60 lin. ft. 10-in. V.C.P. culverts;
- (6) 2000 sq. ft. 6-in. Class E concrete pavement;
- (7) 2267 sq. ft. asphalt concrete pavement, consisting of 2-in. asphalt concrete surface with 6-in. Class F concrete base.

SHASTA COUNTY, Cal.—As previously reported, bids will be received May 27 by State Highway Commission to treat 60.1 miles between Redding and Fall River with heavy fuel oil and cut-back asphalt as a dust palliative. Project involves:

- (1) 4935 bbls. heavy fuel oil in place;
- (2) 41 tons cut-back asphalt, grade E, in place.

NEVADA COUNTY, Cal.—Harms Bros., Galt, at \$5,103.50 submitted low bid to C. H. Whitmore, district engineer, State Highway Commission, for the construction of underdrains at various locations in Nevada County, between Donner Lake and 1 mile west of Truckee, Martin Murphy, Berkeley, only other bidder at \$8,970.

EL DORADO COUNTY, Calif.—Tiffany, McReynolds & Tiffany, at \$12,680.50 awarded contract by the State Highway Commission, Sacramento, to treat with light fuel oil as a dust palliative, 54.6 miles between Riverton and the Nevada State Line and between Alpine Junction and a point 5.2 miles south and between Meyers and Emerald Bay.

SAN JOSE, Santa Clara Co., Cal.—Until May 18, 11 a. m., bids will be received by Henry A. Fister, county clerk, to improve the Alviso-Milpitas Road in Supervisor District No. 3, involving asphaltic concrete pavement. Plans obtainable from County Surveyor Robert Chandler on payment of \$1.

SAN JOSE, Santa Clara Co., Cal.—A. J. Raich, Burrell Bldg., San Jose, at \$27,578.61 awarded contract by county supervisors to improve Moorpark Ave. and a portion of Northrup

St. in Supervisor District No. 4, involving 259,250 sq. ft. 4½-inch asphaltic pavement at 10.6 sq. ft. San Jose Paving Co., San Jose, only other bidder at \$34,010. Engineer's estimate \$31,700.

RICHMOND, Contra Costa Co., Cal.—Until May 15, 5 P. M., bids will be received by A. C. Faris, city clerk, (484) to improve Tenth St., between south line of Dock Avenue and south end of Tenth St., involving:

- (1) 3,225 cu. yds. excavating;
- (2) 1,620 cu. yds. filling;
- (3) 2-in. asphalt concrete wearing surface on 8-in. cement concrete;
- (4) 71,800 sq. ft. base on 4-in. broken rock cushion;
- (5) 15,900 sq. ft. sidewalk;
- (6) 2,500 sq. ft. gutter;
- (7) 5,000 lin. ft. curb;
- (8) 62 lin. ft. curb bar;
- (9) 520 sq. ft. open drain;
- (10) 1,120 lin. ft. industrial curb and gutter;
- (11) 10 tons asphalt concrete wearing surface;
- (12) 2 each catchbasin "A";
- (13) 2 each catchbasin "B";
- (14) 4 each 10-in. vit. sewer pipe tee;
- (15) 120 lin. ft. 10-in. vit. sewer pipe culvert.

1911 Act, 1915 Bond Act. Certified check 10% payable to city required with bid. Plans on file in office of clerk and obtainable from City Engineer Edward A. Hoffman.

SANTA BARBARA, Cal.—City Engineer E. B. Brown completes specifications to improve Harbor View and Scenic Drives, a distance of six blocks involving cement concrete paving. Estimated cost, \$7364. Geo. Geib, city clerk.

SANTA BARBARA, Cal.—City council votes to ask new bids to improve E Canon Perdido St. bet. Santa Barbara St. and Milpas St. The previous bid was submitted in the name of R. C. Atkinson whereas the bond was written in the name of the firm. The work involves the following approximate quantities:

- (1) 148,945.8 sq. ft. 8-5-8-in. concrete pavement;
- (2) 721.6 sq. ft. 5-in. concrete base;
- (3) 6171.72 sq. ft. curb;
- (4) 7069.86 sq. ft. gutter;
- (5) 41 side conn. sewers (vit. pipe);
- (6) 30 ft. 6-in. sub sewer;
- (7) 300 ft. 6-in. vit. main sewer;
- (8) 272 ft. wooden band rail;
- (9) 81.15 sq. ft. walk;
- (10) 58 ft. 12-in. R.C.P.;
- (11) 74 ft. 14-in. R.C.P.;
- (12) 128 ft. 16-in. R.C.P.;
- (13) 120 ft. 30-in. R.C.P.;
- (14) four 7 ft. 7 in. slot catchbasins;
- (15) two concrete junction boxes to be raised;
- (16) 132.2 ft. curb to be removed;
- (17) 1632.8 sq. ft. gutter to be removed;
- (18) 177.2 sq. ft. walk to be removed.

SHASTA COUNTY, Cal.—Until May 27, 2 P. M., bids will be received by State Highway Commission to treat 60.1 miles between Redding and Fall River with heavy fuel oil and cut-back asphalt as a dust palliative.

SUPREME COURT IN FREIGHT RATE RULING

The California Supreme Court has rendered a decision defining and clarifying the jurisdiction of the Railroad Commission to award reparation to shippers in proceedings involving freight rates.

In a suit brought by The Atchison, Topeka and Santa Fe Railway Company, et al, against the Railroad Commission a number of railroads sought to annul an order of the Commission directing the payment of reparation

for the collection of charges in violation of the long and short haul provisions of the California Constitution and the Public Utilities Act.

It was contended by the carrier that jurisdiction to award reparation for the collection of such charges was vested exclusively in the courts. The court ruled against the carriers in this regard and held that there is concurrent jurisdiction in the Railroad Commission and in the courts over the matter of reparation for the collection of such charges. This sustains the position held by the Commission for many years.

The practical effect of the decision is that the California Commission may properly award reparation for the collection of unreasonable, excessive or discriminatory rates, which includes violations of Sections 13, 17a(2), 19, and 24(a) of the Public Utilities Act. The jurisdiction of the Commission is exclusive over claims for reparation for violation of Sections 13, 19, administrative questions being presented in such cases. The jurisdiction of the Commission is concurrent with that of the courts in cases where reparation is sought for the violation of Sections 17 or 24(a) of the Public Utilities Act, administrative questions not

SURVEYOR ADMITS PADDING PAY ROLL

John Hoskins, former Stanislaus county surveyor, and Henry C. Greene one of his field men, pleaded guilty to charges of altering payroll records when arraigned before Superior Judge L. W. Fulkerth at Modesto.

Each admitted the four counts alleged in a complaint filed against them three weeks ago.

They applied for probation and Judge Fulkerth referred the plea to Probation Officer C. H. Ramont for a report on May 11.

Their guilty pleas came a few hours after a complete audit of the books of the county surveyor's office during Hoskins' eight years as surveyor showed a shortage to be \$5,200, according to District Attorney R. R. Fowler. Fowler said the shortage will be made up by the defendants.

GLADDING, McBEAN PROFITS IN 1930

Balance sheet calculations indicate that Gladding McBean & Co. earned a net profit of \$149,065 in the year ended December 31, 1930, equal to 65 cents a share on 226,982 shares, as against \$1,228,563, or \$5.52 a share on 222,531 shares, in 1929, according to the Pacific Coast edition of the Wall Street Journal.

Ratio of current assets to current liabilities on December 31, 1930, was 6.5 to 1, as against 8.5 to 1 at the end of 1929.

All officers and directors were re-elected. Asa Call, attorney, of Los Angeles was made a director to succeed the late Arthur C. Parsons.

STEEL ORDERS SHOW INCREASE IN MARCH

Orders for structural steel in March totaled 185,600 tons, as against 158,800 in February, and 230,800 in March, 1930, according to the Department of Commerce. Shipments during the month totaled 152,800 tons, as against 166,800 tons and 264,800 tons, respectively.

For the quarter ended March 31, bookings totaled 506,800 tons, as against 743,200 in the like 1930 period, while shipments for the period were 491,600 tons and 774,800 tons, respectively.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
12	Coffey	DeVelbiss	1000
33	Cuttler	Doelger	4000
54	Meyer	Owner	5000
55	Rathjens	Strehlow	9750
56	Doelger	Owner	4000
57	McCormick	Owner	3000
58	Spiro	Petersen	3000
59	Standard	Owner	8000
60	Roman	Cahill	100000
61	Grosman	Owner	3500
62	Berg	Owner	3500
63	Craven	Owner	2000
64	Retzburg	MacDonald	3000
65	Jacobsson	Owner	3000
66	Heyman	Owner	7000
67	Stich	Owner	8000
68	West	Papenhausen	1000
69	Dahlstrom	Owner	3000
70	Ward	McCarthy	4000
71	Moll	Owner	3500
72	Stoneson	Owner	5000
73	Sillen	Coburn	1968
74	Stoneson	Owner	2500
75	Stoneson	Owner	20000
76	Menchen	Anderson	5000
77	Kesley	Owner	4000
78	Stoneson	Owner	4000
79	Garibaldi	Warren	3500
80	United Artists Elec. Prod.	Owner	1800
81	Heydenfeldt	Owner	8000
82	McCarthy	Owner	8900
83	Edwards	Warren	7500
84	Crowley	Doelger	4000
85	California	Owner	15000
86	Garnero	Isaac	4000
87	American	O'Brien	33000
88	McCabe	Owner	5750
89	McMullen	Petersen	2000

REPAIRS
 (652) SW 16th & VALENCIA; repair fire damage.
 Owner—Coffey Estate, Phelan Bldg. Architect—Not Given.
 Contractor—C. D. De Velbiss, 369 Pine Street. \$1000

DWELLING
 (653) W 30th AVE. 300 N Fulton St.; one-story and basement frame dwelling.
 Owner—Cuttler & Co., 5332 Geary St. Plans by Mr. Doelger.
 Contractor—H. Doelger, 300 Judah St. \$4000

DWELLING
 (654) NW MIRALOMA 627 SW Portola Drive; one-story and basement frame dwelling.
 Owner—Meyer Bros., 727 Portola Dr. Plans by Owner. \$5000

DWELLING
 (655) SW CAPRA WAY and Avila; two-story and basement frame dwelling.
 Owner—F. E. and H. Rathjens, 1321 Pacific Avenue.
 Architect—A. R. Williams, 785 Market Street.
 Contractor—Strehlow & La Voie. \$9780

DWELLING
 (656) W 24th AVE. 175 S Vicente; 1-story and basement frame dwelling.
 Owner—H. Doelger, 300 Judah St. Plans by Owner. \$4000

OFFICES
 (657) NE EVANS and Napoleon; 1-story frame office building.

Owner—C. R. McCormick Lumber Co., % Architect.
 Architect—J. E. Krafft & Sons, Phelan Bldg. \$3000

ALTERATIONS
 (658) 2539 MISSION ST.; alterations to store front.
 Owner—M. and S. E. Spiro, 301 Market Street.
 Plans by Mr. Petersen.
 Contractor—A. Petersen, 275 S San Bruno Ave. \$3000

SERVICE STATION, ETC.
 (659) SE 7th AVE. and Lincoln Way; one-story steel frame service station; one-story steel frame canopy; one-story tire and rest room.
 Owner—Standard Oil Co. of California, 225 Bush St.
 Plans by Owner. \$8000

SCHOOL
 (660) E NINTH AVE. 100 N Geary; three-story and basement class B school.
 Owner—Roman Catholic Archbishop of San Francisco, 1190 Franklin St.
 Architect—J. J. Foley, 770 5th Ave.
 Contractor—Cahill Bros. \$100,000

DWELLING
 (661) W LEE 225 S Ocean Ave.; one-story and basement frame dwelling.
 Owner—W. E. Grosman, 47 Curtis St. Plans by Owner. \$3800

DWELLING
 (662) E 21st AVE. 225 S Judah St.; one-story and basement frame dwelling.
 Owner—E. J. N. Berg, 24 Stillings Ave. Architect—Not Given. \$3500

ALTERATIONS
 (663) 560 DIAMOND ST.; alterations to dwelling for (2) flats.
 Owner—J. Craven, 560 Diamond St. Plans by G. A. Berger. \$2000

DWELLING
 (664) E 22nd AVE. 125 S Moraga; 1-story and basement frame dwelling.
 Owner—E. J. Retzburg, 19th and Taraval.
 Plans by Owner.
 Contractor—D. B. MacDonald. \$3000

DWELLING
 (665) S JOOST 175 E Congo; 1-story and basement frame dwelling.
 Owner—A. Jacobson, 1714 Waller St. Architect—Not Given. \$3000

DWELLINGS
 (666) E 18th AVE. 326 N Pacheco; two 1-story and basement frame dwellings.
 Owner—Heyman Bros., 742 Market St. Architect—Not Given. each \$3500

FLATS
 (667) SE 19th AVE. and Santolago; two 2-story and basement frame (2) flats.
 Owner—F. M. Stich.
 Architect—G. M. Cantrell, 45 2nd St. each \$4000

FLATS
 (668) E DIVISADERO 125 N Francisco; 2-story and basement frame (2) flats.
 Owner—B. S. West, 1274A Green St. Plans by Mr. Papenhausen.
 Contractor—H. Papenhausen, 595 Victoria St. \$10,000

DWELLING
 (669) W 14th AVE. 200 S Rivera; 1-story and basement frame dwelling.
 Owner—G. Dahlstrom, 2219 14th Ave. Architect—Not Given. \$3000

DWELLING
 (670) W FUNSTON 250 S Lurline; one-story and basement frame dwelling.
 Owner—E. B. Ward, 1031 Irving St. Plans by Mr. McCarthy.
 Contractor—J. E. McCarthy, 1342 Funston Ave. \$4000

DWELLING
 (671) SW ARLETA 150 NW Alpha; one-story and basement frame dwelling.
 Owner—S. Moll, 719 Sargent St. Architect—Not Given. \$3500

DWELLING
 (672) N MONTEREY 106 E St. Elmo; one-story and basement frame dwelling.
 Owner—Stoneson Bros. & Thorinson, 279 Yerba Buena Ave. Architect—Not Given. \$5000

REPAIRS
 (673) 607 SECOND AVE.; repair fire damage.
 Owner—C. R. Sillen, % contractor. Architect—Not Given.
 Contractor—I. W. Coburn, 2048 Market St. \$1968

DWELLING
 (674) S SENECA 50 W Cayuga; one-story and basement frame dwelling.
 Owner—Stoneson Bros. & Thorinson, 279 Yerba Buena Ave. Architect—Not Given. \$3500

DWELLINGS
 (675) E 26th AVE. 85 N Vicente; five one-story and basement frame dwellings.
 Owner—Stoneson Bros. & Thorinson, 279 Yerba Buena Ave. Architect—Not Given. \$4000 each

DWELLING
 (676) W FOERSTER 75 S Kenyon; one-story and basement frame dwelling.
 Owner—C. Menchen, 293 Genesee St. Architect—Not Given.
 Contractor—A. Anderson, 230 Hazelwood St. \$5000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

DWELLING
(677) S SILLIMAN 55 E Dartmouth; one-story and basement frame dwelling.
Owner—M. P. Keeley, 4668 18th St.
Plans by Owner. \$4000

DWELLING
(678) NW COR. NAVAJO and Cayuga; one-story and basement frame dwelling.
Owner—Stoness Bros. & Thorlison, 273 Yerba Buena.
Architect—Not Given. \$4000

DWELLING
(679) N ONEIDA 87 NE Delano; one-story and basement frame dwelling.
Owner—S. Garibaldi.
Architect—Not Given.
Contractor—W. Warren, 164 Hanover Street. \$3500

SIGN & MARQUEE
(680) 1077 MARKET ST.; electric sign and marquee.
Owner—United Artists Theatre, 1077 Market St.
Architect—Not Given.
Contractor—Electrical Products Corp., 255 Golden Gate Ave. \$1800

DWELLING
(681) S MARINA 110 E Divisadero; two-story and basement frame dwelling.
Owner—F. O. Heydenfeldt, 727 Ninth Avenue.
Architect—N. R. Coulter, 46 Kearny Street. \$8000

DWELLINGS
(682) W 21st AVE. 153 S Noriega; two 1-story and basement frame dwellings.
Owner—J. E. McCarthy, 1342 Funston Avenue.
Plans by Owner. each \$4000

DWELLING
(683) S SOTELO 100 E 9th Ave.; 2-story and basement frame dwelling.
Owner—Mrs. E. Edwards, 1227 Fourth Avenue.
Plans by D. S. Adams, 810 Ulloa St.
Contractor—O. Swanson, 3539 Market Street. \$7500

DWELLING
(684) W 20th AVE. 150 S Noreiga; 1-story and basement frame dwelling.
Owner—J. P. Crowley, 1763 Filbert St.
Plans by Mr. Doelger.
Contractor—H. Doelger, 300 Judah St. \$4000

BUILDING
(685) W FARREN AVE. 75 E Eddy; three-story frame college building.
Owner—California College of Chiropractic, 1770 Eddy St.
Architect—Coffey & Rist, Phelan Bldg. \$15,000

DWELLING
(686) NW NAPLES 100 SW Excelsior one-story and basement frame dwelling.
Owner—C. Garner, 320 Edinburg.
Architect—Not Given.
Contractor—H. H. Isaac, 161 Farragut. \$4000

OFFICES
(687) SW SACRAMENTO and Sansome Sts.; one-story class C office building with future garage in basement.
Owner—American Inv. Realty Corp., 342 Sansome St.
Architect—W. D. Peugh 323 Montgomery Street.
Engineer—W. J. O'Brien.
Contractor—Cabill Bros., 206 Sansome Street. \$33,000

DWELLING
(688) S NORTH POINT ST. 180 E Fillmore; two-story and basement frame dwelling.
Owner—J. McCabe, 716 Ulloa St.
Plans by Owner. \$5750

ALTERATIONS
(689) NW GEARY ST. and 6th Ave.; alterations to undertaking parlors (add second story).
Owner—Ashley McMullen, Geary St. and 6th Ave.
Plans by Mr. Petersen.
Contractor—N. C. Petersen, 300 16th Avenue. \$2000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
75	Rathjens	Strehlow	9780
76	Ohe	Harms	18965
77	Torre	Bourdieu	4000
83	Menchen	Anderson	6250
84	Vaissiere	Young	2249
85	Moreno	Laguto	1350
86	Guaranty Bldg	Paoli	6054

RESIDENCE
(75) SW CAPRA WAY and Avila St. N 37-50 x E 100-30; all work on residence except heating, plumbing, painting, window shades and interior tile.
Owner—F. E. and H. Rathjens, 1331 Pacific Avenue.
Architect—A. R. Williams, 785 Market Street.

Contractor—Strehlow & LaVoie.
Filed April 30, '31. Dated April 24, '31.
Frame up 25%
1st coat plaster 25%
Completed and accepted 25%
Usual 35 days 25%
TOTAL COST, \$9780
Bond, \$4890. Sureties, Commercial Casualty Ins. Co. Forfeit, \$10. Limit 90 days. Plans and Spec. filed.

BUILDING
(76) SW BEALE 100 NW Mission N 27-6 x SW 137-6; all work on 1-story and basement building.
Owner—Fred H. and Amanda Ohe, 765 Market St.
Architect—J. E. Kraft & Sons, Phelan Bldg.

Contractor—Richard H. Harms, 1217 Stanyan St.
Filed May 1, '31. Dated April 28, '31.
Conc. foundations, etc. \$7000.00
Completed and accepted 2234.75
Usual 35 days 4741.25
TOTAL COST, \$18,965
Bond, \$9482.50. Sureties, National Union Indemnity Co. Forfeit, \$12. Limit, July 30. Plans and Spec. filed.

RESIDENCE
(77) N ROMAINE 100 W Douglas; all work except painting on one-story frame residence.
Owner—D. Torre, 157 Highland Ave.
Architect—Erling Clauson.
Contractor—J. B. Bourdieu & Son, 2625 20th St.
Filed May 1, '31. Dated April 14, '31.
Roof on \$1600
Brown coated 1000
Completed and accepted 1000
Usual 35 days 1000
TOTAL COST, \$4000
Bond, \$2000. Sureties, M. Fiore, Albert Michel. Limit, 90 days. Plans & Spec. filed.

DWELLING
(82) LOTS 4 and 5 BLK 123 Subdiv of Sunnyside Bk 123 Sunnyside Ave. No 1; all work on one-story and basement frame dwelling.
Owner—C. Menchen, 298 Genesee St.
Architect—Not Given.
Contractor—A. Anderson, 230 Hazelwood St.

Filed May 4, 1931. Dated May 1, 1931.
Wall and roof sheathing on \$1562
Brown coated 1562
Completed and accepted 1562
Usual 35 days 1562
TOTAL COST, \$6194
Bond, \$3125. Sureties, Chas. Adams and Frank Hanson. Limit, 90 days. Plans and Spec. filed.

APARTMENT HOUSE
(84) ASHERLY near Frederick St all work on 3-story and basement frame apartment house.
Owner—Mrs. M. Vaissiere, 2587 17th Architect—Irvine & Ebbets, Call Bld Contractor—Young & Horstmeyer, 4 Market St.
Filed May 4, '31. Dated April 20, '31.
Roof on 25
Brown coated 25
Completed 25
Usual 35 days 25
TOTAL COST, \$32.2.
Limit, Sept. 1, 1931. Plans and Spec. filed.

ALTERATIONS AND ADDITIONS
(85) E MONTGOMERY ST. between Union and Alta, No 1306 Montgomery; alterations and additions to building.
Owner—Rafael and Gloria Morenc 1306 Montgomery St.
Architect—Not Given.
Contractor—E. Lagullo.
Filed May 4, '31. Dated Feb. 17, '31.
Roof completed \$4
Completed 47
Usual 35 days 47
TOTAL COST, \$135
Limit, 3 months.

PAINTING, ETC.
(86) S EUSH 137-6 E Hyde St E 4 x S 137-6, No 1165 Bush St.; a work for painting, papering and decorating, etc.
Owner—Guaranty Bldg. & Loan Assn. 70 Post St.
Architect—Not Given.
Contractor—R. F. Paoli, 3159 Fillmore Filed May 5, '31. Dated May 4, '31.
Weekly 769
(not to exceed \$2500).
Fifty days after completion \$3750
Usual 35 days Balance
TOTAL COST, \$5054.31
Bond, \$2600. Sureties, National Casualty Co. of Maryland. Limit, 20 days. Spec. filed.

COMPLETION NOTICES

San Francisco County

May 1, 1931—N TEDDY 100 and 125 E Delta, 278 and 374 Teddy Ave. (two completions). A. M. Samuelson to whom it may concern. May 1, 1931
May 1, 1931—N MORAGA 82-6 E 23rd Ave E 25xN 100. J Berendsen to whom it may concern. May 1, 1931
April 30, 1931—NW FOLSOM ST 50 SW Ranch St SW 24 x NW 100. J and D Harband to whom it may concern. April 27, 1931
April 30, 1931—W 21st AVE 150 S Judah N 100x120. H Christenson to whom it may concern. April 20, 1931
April 30, 1931—E 42nd AVE 325-11 N Geary 25x120. Jack Hapala to whom it may concern. April 30, 1931
April 30, 1931—NE SANCHEZ and 21st 57x105. Burlingame Corp G W Williams Co, Ltd. April 20, 1931
April 30, 1931—E 22nd AVE 100 S Moraga 25x120. C M Dexter to Jas C Duerner. April 30, 1931
April 30, 1931—SE STEVENSON St and SW Brady St SW 50-6 x SE 28. Thos F and J J Bell to Cabill Bros. April 30, 1931
April 30, 1931—W HYDE 65 S Eddy St 72-6 x W 137-6. Thos F and J J Bell to Cahill Bros. April 30, 1931

il 29, 1931—E 21st AVE 150 N
ilca N 25 x E 120. S Blainstein
whom it may concern.....
April 29, 1931

il 29, 1931—SW ARTHUR AVE
ar 3rd St. H Moffatt Co to Bar-
ter & Hill..... March 1, 1931

il 29, 1931—19th AVENUE and
ilca Way. Associated Oil Co to
Sprengle & Sprivock, Ltd. April 23, '31

il 29, 1931—N GEARY 57-6 East
ary E 20 x N 60. E L Selbel
whom it may concern.....
April 29, 1931

il 29, 1931—SW SANTA MA-
INA and Elsie 25x114-6. Sophie
ones to Peder P Johnsen.....
April 29, 1931

il 29, 1931—W TOCOLOMA AVE
N Lathrop Ave N 120 x W 160.
m H Grhn to whom it may concern.....
April 29, 1931

il 29, 1931—W 29th AVE 125 N
awton 25x120. Denis and Mary
Connor to whom it may concern.....
April 27, 1931

il 29, 1931—E 26th AVE 206 S
lvera S 50 x E 120. John E Mc-
Carthy to whom it may concern.....
March 29, 1931

il 29, 1931—W 100th AVE 375 South
miera S 120 x W 120. F Hale
& Frederick F Balliet..... May 2, 1931

il 29, 1931—S ULLOA 95 and 120
y 34th AVE. Thomas J Sullivan
whom it may concern.....
April 4, 1931

il 29, 1931—65 MARKET St. South-
n Pacific Co to J B Rogers.....
April 29, 1931

il 29, 1931—S DARIEN WAY 130
Manor Drive 35-10x90 Irreg. No
6 Darien Way. S Larsen and V
Laguens to whom it may concern.....
May 1, 1931

il 29, 1931—NW CAYUGA ST 295-
16 and 270-826 SW Santa Rosa
ve 25x110 (two completions). A
Wesendunk Jr to whom it may
concern..... May 5, 1931

il 29, 1931—E 28th AVE 300 North
irkham N 25 x E 120. E E Man-
pau to whom it may concern.....
May 1, 1931

il 29, 1931—E BAYSHORE 325 N
hornton, 425 Bay Shore Blvd. Ot-
nylund to whom it may concern.....
May 1, 1931

il 29, 1931—E FUNSTON AVE 190
Tavalas S 30 E 130-7 1/2 NE 32-
7/8 W 142-8 1/4, C and F Gellert to
whom it may concern.....
May 4, 1931

il 29, 1931—W 16th AVE 100 N Ri-
era 25x120. Fred Isaacson to
whom it may concern..... May 5, 1931

il 29, 1931—W 16th AVE 125 N Ri-
era 25x120. Fred Isaacson to
whom it may concern.....
May 4, 1931

il 29, 1931—S VICENTE ST 102-6
V 15th AVE W 25 x S 100. J V
Vesterlund to whom it may concern.....
May 7, 1931

il 29, 1931—PTNS LOTS 32 and 33
lk 9 Ingleside Terraces, No 184
unado Way. J Klaes to F Klaes.....
May 4, 1931

il 29, 1931—S ULLOA ST 57-6 E
4th AVE E 25 x S 100. L B Han-
mond to whom it may concern.....
May 4, 1931

il 29, 1931—E 30th AVE 100 North
llica St. 25x120. E and P Ander-
son to whom it may concern.....
May 4, 1931

il 29, 1931—GORE COR. CERVAN-
CES Blvd. Prado and Avila Sts.
No 401 Avila St. B Lubman to
whom it may concern..... May 4, 1931

il 29, 1931—NW NAPLES 108-10
SW Silver Ave SW 25 x NW 50.
A Reed to whom it may concern.....
May 1, 1931

il 29, 1931—W 28th AVE 125 North
Kirkham 25x120. John J McDon-
ough to whom it may concern.....
May 1, 1931

il 29, 1931—SE HALE 26 SW Mer-
id SW 25 x SE 75 Blk 10 map
Tract A Peoples' Hd Assn. P
Morales to whom it may concern.....
May 4, 1931

LIENS FILED

San Francisco County

Recorded Accepted
May 2, 1931—S CHESTNUT 137-6 E
Fillmore E 55 x S 137-6. San Fran-
cisco Lumber Co vs J E and A
Bachtupti and C R Jedlicka. \$737.97
April 29, 1931—W FILLMORE 89-7
N Haight St W 29-8 x W 137-6.
Holmes & Jacobson vs I L Merritt,
A Peterson and Deforest & Geel.
\$154.19

RELEASE OF LIENS

San Francisco County

Recorded Amount
May 5, 1931—W GATES 24-5 1/4 N
Ogden N 25 W 70 m or 1 S 25 E
70 m or l. Bothe Bros to Anthony
A Sanchez, Valeralino and Alicia
Orzanco
May 5, 1931—W GATES 49-5 1/4 N
Ogden 25-6 1/4 W 70 S 25-0 1/4 E 23-1 E
46-8 ptn Gift Map 405, all Gift Map
405 of Gift Map No 2. Bothe Bros
to Anthony A Sanchez.....

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
519	Pressler	Owner	3000
520	Ramsden	Swanstrom	10000
521	Pressler	Union	3000
522	Fredrickson	Owner	4000
523	Kelly	Faria	3000
524	Grammond	Pickrell	5000
525	Griffith	Owner	10000
526	Pacific	Maghetta	1100
527	Lodge	Owner	3500
528	Swansick	Owner	3350
529	Gracy	Moore	2000
530	Fleming	Owner	4050
531	Prescott	Owner	3700
532	Allen	Smith	1000
534	Alameda	Owner	14000
535	Cannon	Rosenberry	1500
536	Faucett	Owner	4150
537	King	Owner	6500
538	Norton	Justice	4500
539	Dahl	Owner	4500
540	Bost	Faringer	1000
541	MacMarr	Owner	2000
542	Netherby	Owner	3000
543	Griffith	Owner	3750
544	Phillips	Scammell	1692
545	Smith	Mathyey	4000
546	White	Owner	1000
547	Bond	Owner	9000
548	Traynor	Cederberg	55250
549	Rich	Owner	6000
550	Meyers	Johnstone	2500
551	Gaubert	Owner	4000
552	Herbert	Hammberg	4500
553	Pendleton	Owner	2000
554	Haves	Seindel	10000
555	Baker	Van Aalst	50000

DWELLING
(519) W 73rd AVE. 36 S Ney Ave.,
OAKLAND; one-story five-room
dwelling.
Owner and Builder—Walter Pressler,
1419 Excelsior Ave., Oakland.
Architect—Not Given. \$3000

DWELLING
(520) W HILL ROAD 150 S Golden
Gate Ave., OAKLAND; two-story
6-room dwelling.
Owner—P. S. Ramsden, Central Bank
Bldg., Oakland.
Architect—Geo. Ellinger, 1723 Web-
ster St., Oakland.
Contractor—George Swanstrom, 1723
Webster St., Oakland. \$10,000

DWELLING
(521) SW COR. 75th AVE. and Ney
Ave., OAKLAND; one-story five-
room dwelling.

Owner and Builder—Walter Pressler,
1419 Excelsior Ave., Oakland.
Architect—Not Given. \$3000

DWELLING
(522) NO. 920 COLLIER DRIVE,
SAN LEANDRO. One-story six-
room dwelling.
Owner—Karl Fredrickson, 1512 Ham-
pel St., Oakland.
Architect—Not Given. \$4000

DWELLING
(523) NO. 496 JOAQUIN AVE., SAN
LEANDRO. One-story five-room
dwelling and garage.
Owner—Austin Kelly, San Leandro
Architect—Not Given.
Contractor—A. S. Faria, 2229 Wash-
ington Ave., San Leandro. \$3000

DWELLING
(524) NO. 530 PALO AVE., SAN
LEANDRO. One-story six-room
dwelling.
Owner—E. Grammonds.
Architect—Not Given.
Contractor—J. H. Pickrell, 332 Santa
Clara Ave., Alameda. \$5000

DWELLINGS
(525) NO. 784 CARY DRIVE AND
865 Dodney Drive, SAN LEAN-
DRO. Two one and one-half
story 6-room dwellings.
Owner—C. W. Griffith, 1427 87th Ave.,
Oakland.
Architect—Not Given. \$5000 each

ALTERATIONS
(525) NO. 2221 TELEGRAPH AVE.,
BERKELEY. Alterations.
Owner—Pacific Leasehold Corp., 156
Montgomery St., San Francisco.
Architect—Not Given.
Contractor—H. Maghetta, 2055 Sutter
St., San Francisco. \$1100

DWELLING
(527) W EIGHTIETH AVE 430 N
Hillside St., OAKLAND. One-
story 5-room dwelling.
Owner—C. F. Lodge, 749 Collier Dr.,
San Leandro.
Architect—Not Given. \$3500

DWELLING
(528) E 107TH AVE 100 N Bancroft
Ave., OAKLAND. Two-story 7-
room dwelling.
Owner—M. W. Swansick, 2392 109th
Ave., Oakland.
Architect—Not Given. \$3350

DWELLING
(529) NO. 2457 THIRTY-FIFTH AV.,
OAKLAND. One-story four-room
dwelling and one-story garage.
Owner—Agnes and Wm. Garcey, 2457
35th Ave., Oakland.
Architect—Not Given.
Contractor—Moore & Overton, 416 38th
St., Oakland. \$2000

DWELLING
(530) E FORESTHILL AVE. 400 S
Tiffin Road, OAKLAND. One-story
five-room dwelling and one-story
garage.
Owner—Andrew Fleming, 4126 Culver
St., Oakland.
Architect—Not Given. \$4050

RESIDENCE
(531) NO. 1211 CORNERS AVE.,
BERKELEY. One-story 5-room 1
family frame residence and gar-
rage.
Owner—Mary Prescott, Albany.
Architect—C. E. Eakin, Berkeley
\$3700

ALTERATIONS
(532) NO. 1543 CEDAR ST., BER-
KELEY. Alterations.
Owner—L. B. Allen.
Architect—Not Given.
Contractor—H. W. Smith, 1528 Cal-
ifornia St., Berkeley. \$1000

WAREHOUSE
(532) S SEVENTH ST 150 E Fallon St., OAKLAND; 1-story concrete warehouse.
Owner and Builder—Geo. R. Bormmann Steel Co., 4th and Grove Sts.
Architect—Not Given. \$20,000

BUILDING
(534) NO. 2006 EVERETT ST., ALAMEDA. Two-story brick building.
Owner—Alameda Rug Works, 2006 Everett St., Alameda.
Architect—Not Given. \$14,000

RESIDENCE
(535) NO. 1631 1/2 LA VEREDA AVE., BERKELEY. One-story 4-room 1-family frame residence.
Owner—J. V. Cannon.
Architect—Not Given.
Contractor—C. C. Rosenberg, 1401 Mountain Blvd., Oakland. \$1500

RESIDENCE
(536) NO. 1349 BERKELEY WAY, BERKELEY. One-story 6-room 1-family frame residence.
Owner—E. Faucett, 1401 Berkeley Way, Berkeley.
Architect—F. W. Thaxter, 6452 Hillegas Ave., Oakland. \$4150

RESIDENCE
(537) NO. 1022 EUCLID AVE., BERKELEY. Three-story 7-room and garage 1-family frame residence.
Owner—Erick King, 1370 Hopkins St., Berkeley.
Architect—W. Broderick, Koerber Bldg., Berkeley. \$6500

DWELLING
(538) NO. 1421 UNION ST., ALAMEDA. Two-story six-room frame and stucco dwelling.
Owner—H. A. Norton, 1721 Santa Clara Ave., Alameda.
Architect—Owner.
Contractor—N. F. Justice, 973 Pearl St., Alameda. \$4500

DWELLING
(539) NO. 1425 COURT ST., ALAMEDA. One-story six-room frame and stucco dwelling.
Owner—Edwin W. Dahl, 2901 56th Ave., Oakland.
Architect—Not Given. \$4500

REPAIRS
(540) NO. 1521 MINTURN ST., ALAMEDA. Repair fire damage.
Owner—Dr. Otto Best, 1521 Minturn St., Alameda.
Architect—Not Given.
Contractor—J. A. Farringer, 1804 Central Ave., Alameda. \$1000

ADDITION
(541) 5725 East 14th St, OAKLAND; addition to shed.
Owner and Builder—MacMarr Stores, Inc., 5725 E 14th St, Oakland.

DWELLING
(542) S PROCTOR AVE. 200 West Florence Ave., OAKLAND; two-story 5-room dwelling.
Owner and Builder—W. A. Netherby, 3853 Lyman Road, Oakland.
Architect—Not Given. \$3000

DWELLING
(543) E 100th AVE. 279 S Sunnyside St., OAKLAND; two-story 6-room dwelling and 1-story garage.
Owner and Builder—C. W. Griffith, 1427 87th Ave., Oakland.
Architect—Not Given. \$3750

ADDITION
(541) 637 SANTA RAY AVE., OAKLAND; addition.
Owner—John Phillips, 637 Santa Ray Ave., Oakland.
Architect—Not Given.
Contractor—J. W. Scamell, 924 Scenic Ave., Oakland. \$1692

DWELLING
(545) S NEY AVE. 200 W Parker Ave., OAKLAND; 1-story 6-room dwelling.
Owner—A. E. Smith.
Architect—Not Given.
Contractor—L. B. Matheyer 3178 Bird-sall Ave., Oakland. \$4000

ALTERATIONS
(546) 519 16th ST., OAKLAND; alterations.
Owner & Builder—White Cabin Lunch Company.
Architect—E. T. Foulkes, 357 12th St., Oakland. \$1000

DWELLING
(547) 1643-46 ARCH ST., BERKELEY; two-story 10-room 2-family residence and garage.
Owner and Builder—Milton S. Bond, 1655 Scenic Ave., Berkeley.
Plans by Owner. \$9000

RESIDENCE
(548) NO. 55 SEAVIEW AVE., PIEDMONT. Two-story 14-room frame and stucco residence and garage.
Owner—Mrs. J. B. Traynor, 329 Robinson St., Piedmont.
Architect—Albert Farr, 68 Post St., San Francisco.
Contractor—A. Cederborg, 1455 Excelsior Blvd., Oakland. \$55,250

DWELLING
(549) 57V TRESTLE GLEN AND Brookwood Rd., OAKLAND. Two-story 7-room dwelling.
Owner—Jas. L. Rich, 1175 Stanford Ave., Oakland.
Architect—Not Given. \$6000

DWELLING
(550) N WALNUT ST. 240 E 92nd Ave., OAKLAND. One-story five-room dwelling.
Owner—Henry Meyers, 1410 94th Ave., Oakland.
Architect—Not Given.
Contractor—J. D. Johnstone, 1810 94th Ave., Oakland. \$2500

DWELLING
(551) S CASTERLINE ROAD 175 W Waterhouse Road, OAKLAND. One-story 5-room dwelling.
Owner—Gaubert Bros., 4735 Brookdale Ave., Oakland.
Architect—Not Given. \$4000

DWELLING
(552) E EDITH ST. 280 N Moraga Road, OAKLAND. One-story 5-dwelling.
Owner—Wm. A. Herbst, 1324 Haskell St., Berkeley.
Architect—Not Given.
Contractor—A. Hammarberg, 720 Hilldale Ave., Berkeley. \$4500

DWELLING
(553) S OAKWOOD DR. 150 W Wild Quince Dr., OAKLAND. One-story 6-room dwelling.
Owner—H. C. Pendleton, 62 York Dr., Oakland.
Architect—F. R. Slocombe. \$3000

APARTMENTS
(555) NO. 1717 OXFORD ST., BERKELEY. Three-story 78-room 30 apartmentst.
Owner—M. Baker, Artico Bldg., Berkeley.
Architect—A. Burrell, 516 American Bank Bldg., Berkeley.
Contractor—Wm. Van Alst, 2039 34th St., Oakland. \$50,000

80 Regents Walter 240
81 Rhonemus Kraus 350

HEATING AND VENTILATING
(77) LAND BOUNDED by Edith, Dilbeck Road, Jacobus Avenue and Morrish St., Oakland; heating and ventilating on high school building.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin L. San Francisco.
Architect—H. Minton, B. and L. America Bldg., San Francisco.
Contractor—A. A. Pollia, 401 14th St., San Francisco.
Filed April 29, '31. Dated Mar. 26, '31.
First of each month..... 3
Usual 35 days..... 3
TOTAL COST, \$20,000
Bond: Performance, \$26,180; Guarantee, \$2618. Sureties, Hartford Accident & Indemnity Co. Limit, Aug 5, 1931. Plans and Spec. filed.
NOTE: Assigned by owner to Jas. L. McLaughlin Co.

FURNITURE
(78) CAMPUS of the University of California, Berkeley; furnishing and installing furniture in Engineering Building and Engineering Laboratory Bldg.
Owner—The Regents of the University of California, Berkeley.
Architect—W. P. Stephenson, University of California, Berkeley.
Contractor—R. Brandlein & Co., 11 Bryant St., San Francisco.
Filed April 29, '31. Dated April 29, '31.
On completion..... 15
Usual 35 days..... 15
TOTAL COST, \$17,500
Bond: Performance, \$9000; Labor, etc. \$9000. Sureties, Hartford Accident & Indemnity Co. Forfeit \$20 per d. Limit, 120 days. Plans and Spec. filed.

(79) LINOLEUM on above.
Contractor—Chim-er-eg Linoleum House, Inc.
Filed April 29, '31. Dated April 23, '31.
Payments not given.
TOTAL COST, \$5100
Bond: Labor, etc., \$3,000; Performance, \$3,000. Sureties, Public Indemnity Co. Forfeit, \$10 per day. Limit, 100 days.

(80) WINDOW SHADES and Blinds on above.
Contractor—D. N. and E. Walter C. 562 Mission St., San Francisco.
Filed April 29, '31. Dated April 23, '31.
Payments not given.
TOTAL COST, \$2200
Bond: Labor, etc., \$1150; Performance, \$1150. Sureties, U. S. Fidelity & Guaranty Co. Forfeit, \$10 per day.

BUILDING
(81) REAR of 1258 MARIN Avenue, Albany; general construction of 5-room apartment 1-story building.
Owner—Mr. and Mrs. A. W. Rhonemus, 1258 Marin Ave., Albany.
Architect—Wm. J. Kraus, 1310 Marin Ave., Albany.
Contractor—Wm. J. Kraus, 1310 Marin Ave., Albany.
Filed May 1, 1931. Dated April 6, 1931.
When framed..... 100
When plastered..... 100
When completed..... 100
Usual 35 days..... 100
TOTAL COST, \$4000
Limit, 60 days.

HEATING & VENTILATING
(82) NE VALLEY ST. and 21st St, Oakland; heating and ventilating system for 8-story and basement reinforced concrete store and loft building (John Breuner Bldg.).
Architect—Albert F. Roller, Crocker First National Bank Building, San Francisco.
Contractor—P. J. Walker Co.
Sub-Contractor—Herman Lawson, doing business as Herman Lawson Company.

BUILDING CONTRACTS

ALAMEDA COUNTY

No. Owner	Contractor	Am't.
77 Roman	Pollia	26180
78 Regents	Brandlein	17555
79 Regents	Chim-er-eg	5730

and Dated May 1, 1931.
 Month of each month.....75%
 Annual 365 days.....25%
TOTAL COST, \$21,373
 Paid, \$12,186.50. Sureties, Pacific In-
 dustry Co. Plans and Spec. filed.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded Accepted

May 1, 1931—8233 NEY AVE, Oak-
 land. Bertha E Busch to William
 Unstable.....May 1, 1931
 May 2, 1931—LOT 7 BLK 15, map
 of a Resub of a ptn of N Crag-
 mont, Berkeley. J W and Gracia
 Crafft to whom it may concern.....
 May 1, 1931
 May 2, 1931—PTN of that certain
 7.17 acre parcel of land firstly
 described in Deed from Realty
 Syndicate Co to Calif Memorial
 Hospital June 28, 1915 and record-
 ed in Vol 2796 of Deeds, page 656,
 Oakland. Claude Moore Williams
 to E Petersen.....April 23, 1931
 May 2, 1931—2649 77th AVE, Oak-
 land. F W Conlogue to whom it
 may concern.....April 29, 1931
 May 2, 1931—6806 TRENOR Street,
 Oakland. A Budget to Self.....
 May 1, 1931
 May 1, 1931—PTN LOTS 13 and 14
 Blk 7, Highland Manor, Oakland.
 John J Connolly to Geo W Easterly
April 29, 1931
 May 1, 1931—OAKLAND Pl 28,
 Oakland. Southern Pacific Co to
 Vorden & Forsythe (the two comple-
 xions).....April 20, 1931
 May 1, 1931—LOT 260 and S 10 ft
 of 262, Terminal Junction Tract,
 Albany. Ophelia E Elliott to whom
 it may concern.....April 27, 1931
 May 1, 1931—1470 CRDWAY ST,
 Berkeley. J L Bredehoff and C O
 Dull to whom it may concern.....
 April 28, 1931
 May 1, 1931—PTN LOT 17, map of
 La Loma Park, Berkeley. Elmer
 Rowell to Henry F Papenhausen
April 28, 1931
 May 1, 1931—LOT 16, Thompson
 Park Tract, Alameda. Ralph B
 Rogers to Walter H Anderson.....
 April 30, 1931
 May 2, 1931—LOTS 28 and 29 Blk
 13, Map No 8 of Regents Park,
 Albany. Frank A Stokes to whom
 it may concern.....April 24, 1931
 May 2, 1931—823-25 60th ST, Oak-
 land. Henrietta MacGregor to
 whom it may concern.....April 27, 1931
 May 2, 1931—LOT 28 and ptn Lots
 Park, Oakland. Fred T Dooley to
 whom it may concern.....April 28, 1931
 May 2, 1931—ALAMEDA, Oakland
 and Berkeley. Southern Pacific Co
 to Hutchinson Co.....April 20, 1931
 May 4, 1931—LOT 10 and ptn lots
 11 and 9 blk 28, map No 8 of Re-
 gents Park, Albany. Joe Vila to
 self.....May 1, 1931
 May 4, 1931—66-11 ft S of CLEVE-
 LAND AVE which bears S 66 deg
 45 min E on Athol Ave on line bear-
 ing N 41 deg 06 min 30 sec E, etc,
 Oakland. Coast Income Properties
 Ltd to W E Lyons.....May 2, 1931
 May 4, 1931—SW GILMAN and Ten-
 nell Sts, Berkeley. Coast Income
 Properties, Ltd to W E Lyons.....
 May 2, 1931
 May 4, 1931—LOT 14 BLK 4, Berke-
 ley Heights, Berkeley. Earle V
 Weller to W J Kraus.....April 30, 1931
 May 4, 1931—555 SANTA BARBARA
 Ave, 1000 Oaks Heights, Berkeley.
 E E Jarvis and Oscar Wickman to
 whom it may concern.....May 4 1931
 May 4, 1931—1159 SANTA PE AVE,
 Albany. Marcus A Peel to Self.....
 May 4, 1931
 May 6, 1931—LOT 22, Ardmore, San
 Leandro. Frank E and Laura S
 Law to whom it may concern.....
 May 2, 1931

LIENS FILED

ALAMEDA COUNTY

May 4, 1931—E HENRY ST 240 ft S
 of Vine St, Berkeley. Chas A Hag-
 land, \$84.16, vs A P Ward, \$65; Tom
 Argenta, \$115, vs C E Freshourt.....
 May 1, 1931—NO. 2822 CENTRAL
 Ave., Alameda. Richard Holden
 vs Mark Miller.....\$160
 May 1, 1931—LOTS 7 AND 8 Map
 of Alice Park Addition, Oakland.
 C A Bray vs M Pessed, E Wischard-
 son; F Gross; J and S M Gage and
 F Jacques.....\$37.72
 April 30, 1931—LOT 3 BLK 5, Berke-
 ley Square, Berkeley. Berkeley
 Bidg Materials Co vs Beulah and
 Frank H Fell.....\$554.53
 April 30, 1931—LOT 2 BLK 5, Berke-
 ley Square, Berkeley. Inland Floor
 Co vs Frank H Fell.....\$383
 April 30, 1931—N BEGIER AVE 110-
 28 ft W of Woodland Ave, San Le-
 andro. Brockhurst Tile Co vs H
 F and Eleanor O Brunner, Joseph
 Franklin.....\$96
 April 30, 1931—LCTS 1, 2 and 3 Blk
 I, Havenscourt, Oakland. Vincent
 Fatta vs Wm and Edith Vivian,
 Standard Const Co.....\$470
 April 30, 1931—LOT 20 BLK C, Es-
 tudillo Est, San Leandro. Stand-
 ard Fence Co vs W D Edwards.....\$99

SAN ANSELMO BUILDING PERMITS FOR APRIL

SAN ANSELMO, Marin Co., Cal.—
 Building permits involving an ex-
 penditure of \$41,550 were issued during
 the month of April, 1931, by Chas. H.
 Cartwright, city building inspector,
 as follows:
 F. J. Donohue. Dwelling and gar-
 age. Woodland and Crescent Road.
 Est. cost, \$2500.
 G. Tjensvold. Dwelling. Lot 434
 Short Ranch Tract. Los Angeles and
 Santa Cruz Ave. Est. cost, \$3000.
 Rose Jones. Dwelling. Portion Lot
 157 Bush Tract. Scenic and Hum-
 boldt Aves. Est. cost \$2000.
 A. Von Rooy (J. Reynolds). Dwlg.
 Lot 35 Blk 3, Morningside Court No.
 1. Est. cost \$3500.
 M. Lang. Dwelling. Lot 7, Agatha
 Court. Est. cost, \$3500.
 Chas. Cook. Erect and alter dwell-
 ing. Lot 170, Ross Valley Park. Villa
 Lots. Crescent Road. Est. cost, \$1000.
 A. Gordon. Garage. Portion Lot
 5A Bush Tract, Red Hill Ave. and
 San Anselmo Ave. Est. cost, \$150.
 A. Bennett. Dwelling. Lot 5 Block
 3, Morningside Court No. 1. Est.
 cost \$4000.
 T. Foley. Addition. Lot 8, Ross
 Valley Park. Tamalpais Avenue. Est.
 cost, \$500.
 L. P. Glandon. Dwelling. Lot 4,
 Yolanda Court. Est. cost, \$3000.
 Leach Realty Co. Dwelling. Por-
 tion Lots 15 and 16 Map No 2, Lands
 of Mrs. Wm. Barber. Est. cost \$300.
 T. O'Leary. Garage. Morningside
 Drive. Est. cost, \$200.
 Geo. Zimmerman. Dwelling. Lot 8
 Blk. D, Carrigan Tract. Calumet Ave.
 Est. cost, \$6000.

H. Squires. Garage. Lot 8, San
 Rafael Heights No. 1. Est. cost, \$250.
 (Greenfield Ave.)
 Mrs. C. Skaggs. Dwelling and gar-
 rage. Lot 17, Agatha Court. Est.
 cost, \$3800.
 R. E. Lapham. Addition. Lot 20
 Block 4, Morningside Court No. 1.
 Est. cost, \$250.

BUILDING CONTRACTS

SAN MATEO COUNTY

RESIDENCE
 LOT 10 BLK 63, Easton. Two-story
 Spanish type residence and garage.
 Owner—Fred H. Brown et al, 140 Can-
 yon Road, Yolanda.
 Architect—Grimes & Schoening, 235
 Third Ave., San Mateo.
 Contractor—C. B. McClain, 1412 Edge-
 hill Rd., Burlingame.
 Filed May 2, '31. Dated Mar. 23, '31
 Roof on.....\$1485.25
 Plastered.....1486.25
 Completed.....1486.25
 Usual 35 days.....as per agreement
 TOTAL COST, \$3665.00

Bond, none. Limit, 90 working days.
 Forfeit, plans and specifications, none.

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$8500; Lot 1 Blk 3, Vir-
 gilia and Edinburgh Sts.; owner,
 N. J. Schneider; contractor, T. A.
 Cavanaugh, 137 West Bellevue.
 BUNGALOW, \$5000; Lot 30 Blk L, No.
 126 12th Ave., San Mateo; owner,
 and contractor, Hugo Hutberg, 29
 San Mateo Ave., San Mateo.
 ALTERATIONS, \$2500; Lot 15, No. 520
 Peninsular Ave., San Mateo; own-
 er, Geo. Kamir, 522 Peninsular
 Ave., San Mateo; contractor, B.
 Norberg, 832 Morrill St., San Mateo
 GRAVEL bunker, \$5000; Lots 1 to 6
 incl., No. 840 San Mateo Drive,
 San Mateo; owner and contractor,
 San Mateo Feed & Fuel Co., 840
 San Mateo Drive, San Mateo.
 BUNGALOW, \$400; Lot 1, Resub. 466
 Hobart St., San Mateo; owner and
 contractor, W. T. Croop, 210 Ho-
 bart St., San Mateo.
 BUILDING, frame and stucco, \$5000;
 Lot 45, Second Ave., San Mateo;
 owner, Mills Memorial Hospital;
 contractor, Leadley & Wiseman,
 207 Second Ave., San Mateo.

COMPLETION NOTICES

SAN MATEO COUNTY

May 1, 1931—LOT 6 BLK 20, Lyon &
 Hoag Sub., Burlingame. Daniel J
 McDonald to whom it may concern.....
 April 30, 1931
 May 1, 1931—LOT 45, Carmelita
 Manor, San Mateo. Lyle F Bor-
 quinn to whom it may concern.....
 April 30, 1931
 May 2, 1931—LOT 7 BLK 24, Mil-
 brae Highlands. Frank C Grisez
 to whom it may concern.....
 April 30, 1931
 May 2, 1931—LOT 15 BLK 3, Jer-
 ferson Park. Castle Building Co

Member Insurance Brokers' Exchange

FRED H. BOGGS
 INSURANCE
 490 GEARY STREET
 Phone FRanklin 9400 San Francisco

to Henry Horn.....April 2, 1931
 May 4, 1931—LOT 4 BLK 4, Burlingame Park. Frederick H Pelle et al to Charles Hammer. May 1, 1931
 May 4, 1931—NO. 317 GRAND BLVD San Mateo. Edith C Redding to G W Williams Co.....May 1, 1931
 May 4, 1931 — LOCATION NOT Given. A R Ford to whom it may concern.....April 20, 1931
 May 4, 1931—LOT 8 BLK B, Pays Redwood Gardens. C B McLane to Moncreiff Bros.....April 30, 1931
 May 4, 1931—ABLY HOMESTEAD, Colma. F Podesta to Carl Carlsen.....May 1, 1931
 Recorded Accepted
 April 27, 1931—LOT 24 BLK 1, Part-ridge Sub, Menlo Park. Thomas C Tibbs to Thomas C Tibbs.....April 25, 1931
 April 27, 1931—LOT 12 BLK 2, Vista Grand. Fred Lucia et al to Fred Dixon.....Oct. 1, 1930
 April 27, 1931—LOT 116, Husing Sub San Mateo City. Homestead. J O Smith to whom it may concern.....April 24, 1931
 April 28, 1931—LOT 11 BLK 3, Vista Grand. Oia Axdal to whom it may concern.....April 22, 1931
 April 28, 1931—LOT 5, Anthony Sub, Ferrisford. A Wald to whom it may concern.....April 27, 1931
 April 28, 1931—LOT 8 BLK 28, Milbrae Highlands. Elias Vigen to whom it may concern.....April 25, 1931
 April 28, 1931—LOTS 95 AND 96, Brewer Sub, San Mateo. E C Counter et al to whom it may concern.....April 27, 1931
 April 29, 1931—PART LOT 6 BLK 7, Blossom Heath Manor, San Mateo. Castle Building Co to Henry Horn.....April 21, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
April 30, 1931—LOT 12 BLK A, Fays Redwood Garden. Arnold Smith et al vs J G Lehman.....	\$286
April 30, 1931—LOT 12 BLK A, Fays Redwood Gardens. Arnold Smith et al vs J G Lehman.....	\$286
May 2, 1931—LOT 52, Wellesley Park H J Pinkerton vs Wilbur D Keith et al.....	\$193.98
May 4, 1931—LOT 2 BLK 5, Redwood Highlands. Levy Bros vs Bernard J McCarron et al.....	\$45.94
May 4, 1931—LOT 12 BLK A, Fays Redwood Gardens. McClary Chelm Lumber Co, \$56.89; A R Ford, \$189 vs J G Lehman.....	\$189

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded	Amount
April 29, 1931 — LOCATION NOT Given. F M McNulty alias to G Vega et al.....	\$393.28

BUILDING PERMITS

REDWOOD CITY

DWELLING, frame, 5-rooms, bath and garage, \$3000; No. 1112 Clinton St., Redwood City; owner, W. E. Griffin; contractor, S. E. Goss.....

DWELLING, frame, 5-rooms, bath and garage, \$3200; No. 1150 Cleveland St., Redwood City; owner, J. B. Shook, 212 Oak Ave., Redwood City; contractor, Thomas Nelson, 51 Perry St., Redwood City.

BUILDING PERMITS

PALO ALTO

RESIDENCE, 2-story stucco and garage, \$11,600; 524 Center St.; owner, A. H. Ranhof, 407 Cowper St.; contractor, Aro & Ckerman, 1143 Webster St.

RESIDENCE, 2-story stucco, and garage, \$12,500; 780 Hamilton Ave.; owner, J. C. Simmeron; contractor, W. F. Klay, Menlo Oaks Dr., Menlo Park.

RESIDENCE, \$3700; No. 203 Grant St., Palo Alto; owner, M. H. and Lillian Weston; contractor, Arthur A. Smith.

RESIDENCE, stucco, \$8200; No. 1770 Fulton St., Palo Alto; owner, A. C. Taft, 1219 Fulton St., Palo Alto; contractor, H. H. Dabnnett, 1765 Fulton St., Palo Alto.

BUILDING PERMITS

BURLINGAME

RESIDENCE, \$7500; Lot 20 Blk 11, Montero, Burlingame; owner, L. C. Turner, 1839 7th Ave. Oakland; contractor, H. K. Henderson, 393 40th St., Oakland.

BUNGALOW, \$6500; Lot 18 Blk 56, Vancouver St., Burlingame; owner, O. L. Gandee; contractor, A. M. Arneser.

ALTERATIONS, \$1400; No. 1461 Drake Ave., Burlingame; owner, L. Knoles, 1461 Drake Ave., Burlingame; contractor, Jack Keiser.

BUILDING PERMITS

SAN JOSE

RESIDENCE, frame, 14-room and laboratory, \$10,000; Riverside St. near Coe, San Jose; owner, Prof. C. P. Smith, 354 S-Tenth St., Sacramento; architect, Chas. McKenzie, Twoby Edg., San Jose; contractor, Dyke Walton, 1217 University Ave., San Jose.

ADD to Class C business building, \$2900; No. 131 Jackson St., San Jose; owner, Chan Wing Jing, 131 Jackson St., San Jose; architect, Binder & Curtis, 35 W-San Carlos St., San Jose; contractor, John Hugard, 119 S-Second St., San Jose.

ALTER frame residence, \$1000; No. 536 S-Seventh St., San Jose; owner, S. Tacconi, Premises; contractor, H. A. Bridges, 1396 Lincoln St., San Jose.

COTTAGE, frame, 3-room, \$1000; Spring St. near Seymore, San Jose owner, W. McMaters, 429 Seymore St., San Jose; contractor, M. H. Clark, 423 Seymore St., San Jose.

ALTER Class C business building, \$3700; No. 253 N-Market St., San Jose; owner, James Transfer Co., Premises; contractor, W. D. Loz, C. E., 35 W-San Carlos St., San Jose; contractor, Megna & Newell, Bank of America Bldg., San Jose

RESIDENCE, frame, 5-room, \$2750; O'Brien Ct. near Delno St., San Jose; owner & contractor, Arthur Clare, Rt. 3, Box 530 A, San Jose.

ALTER Class C business building, \$8625; SW Market and Balbach Sts., San Jose; owner, John Corotto, 569 N-Fifth St., San Jose; architect, Herman Krause, 243 N-Ninth St., San Jose; contractor, N. J. Lunnin, 212 S-Ninth St.

RESIDENCE, frame, 6-room, \$650; Shasta St. near Park, San Jose; owner and contractor, Rollie Williams, 1517 Shasta St., San Jose.

COMPLETION NOTICE

SANTA CLARA COUNTY

Recorded Accepted
 April 16 1931—LOT 2, Broadway Court, San Jose. W H Ackern, to whom it may concern.....April 15, 1931
 April 16, 1931 — LOT 19, Barry Park, San Jose. Goldstein et al to whom it may concern.....April 15, 1931
 April 16, 1931—E MCCREERY AVE, 94 N Lendrum Ave., San Jose. Frank G Klein to whom it may concern.....April 16, 1931
 April 16, 1931—LOT 41, Montebello Acres. William H Eburnett to whom it may concern.....April 15, 1931
 April 16, 1931—N VESTAL AVE 1 W 17th St., San Jose. W H L to whom it may concern.....April 15, 1931
 April 17, 1931—LOT 28, Santa Rosa. Louis A De Carl et al to whom it may concern.....April 14, 1931
 April 17, 1931—LOT 44, Coloma Manor. William H O'Neil to whom it may concern.....April 8, 1931
 April 17, 1931—LOT 52, Willow Glen Orchard Tract. M A Urstadt et al to whom it may concern.....April 15, 1931
 April 17, 1931—LOT 6 BLK A, Southgate, Palo Alto. Myrtle Willan Cansely to whom it may concern.....April 17, 1931
 April 17, 1931—PART LOT 44 BL E, Barred Fork, San Jose. Ernest Dewey Anderson to whom it may concern.....April 15, 1931
 April 17, 1931—NE 62.50 FT. LOT 29 to 32 Blk 89, Palo Alto. Andrew and Mary Aro to whom it may concern.....April 16, 1931
 April 17, 1931—LOT 6 BLK 37, Seal Addition No. 2, Palo Alto. Aax I Widsten to whom it may concern.....April 16, 1931
 April 18, 1931—LOT 14 BLK 14, Sun nyvale Addition No. 2, Palo Alto. Frankie and Anthony B Ramo to whom it may concern.....April 17, 1931
 April 18, 1931—LOTS 36, 39 AND 4 Blk 2, Los Altos Park. Virgini M Spinks to whom it may concern.....April 16, 1931
 April 20, 1931—LOT 39, Call Subd. San Jose. William M Myer to whom it may concern.....April 17, 1931
 April 21, 1931—LOT 18, Hart Subd. San Jose. J Charles Villata et al to whom it may concern.....April 14, 1931
 April 21, 1931—PETER H EURNETT Jr. High School. San Jose High School District to whom it may concern (sheet metal work; architectural metal work; glass and glazing; tile work; lathing and plastering; 5 completion notices).....April 20, 1931
 April 22, 1931—5095 AC FT LOT 1 E. T. Murphy Subd with exceptions. Christ Gouardes et al to whom it may concern.....April 20, 1931
 April 22, 1931—SW GUINDA 50 NW Kingsley Ave NW 50xSW 112 1/2 ft. Pt. Lot 3 Blk 94, Palo Alto. John and Helma Linkkonen to whom it may concern.....April 20, 1931
 April 23, 1931—E Bay View Subd., San Jose. M L Wells et al to whom it may concern.....April 23, 1931
 April 25, 1931—LOT 8 BLK 12, Los Altos. George H Fullrite et al to whom it may concern.....April 21, 1931
 April 23, 1931—LOT 5, Blk F, Southgate, Palo Alto. Ralph C Knight to whom it may concern.....April 21, 1931
 April 24, 1931—LOTS 3 AND 4 BLK 31, College Terrace, Palo Alto. C E Van Epps to whom it may concern.....April 24, 1931
 April 24, 1931—BEG NEW S HAMILTON Ave 316.85 ft. E Santa Clara-Los Gatos Road. S N Hedegar

al to whom it may concern..... April 18, 1931
 ril 25, 1931—SW SECOND AND Taylor Sts, San Jose. B DeMarco to whom it may concern. April 21, '31
 r 17, 1931—LOT 1, P. G. Keith lmbd. L E Rudy to whom it may concern..... April 25, 1931
 ril 25, 1931—LOT 11, Riverside ark. Ormal W Dodd et al to whom it may concern. April 27, 1931
 ril 27, 1931—W-WILLIAMS ST., Gardner School, San Jose. San Jose High School District to whom it may concern (heating system)..... March 31, 1931
 ril 28, 1931—LOT 10 BLK 52, Brock Subd., Palo Alto. Henry larala to whom it may concern..... April 25, 1931
 ril 29, 1931—LOT 37, Lincoln Manor, San Jose. Alfred Alves et al to whom it may concern..... April 28, 1931
 ril 29, 1931—LOT 25, 124, Crescent Park No. 2, Palo Alto. Eric J and Hilda A Heurlin to whom it may concern..... April 28, 1931
 ril 29, 1931—LOT 2, Ramona Ct., San Jose. E L Wolfe to whom it may concern..... April 29, 1931

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
 ril 27, 1931—108 AC. Part Sec. 20 Tsp 6 R 2 W and part Pastoria Rancho. Sterling Lumber Co vs E Mosher et al..... \$37.60
 ril 16, 1931—LOT 3 BLK 2 N R 1 E Gilroy, also part Lot 2 Blk 2 N R 1 E, Gilroy. Samuel Cacamo vs Bank of America..... \$592.81
 ril 17, 1931—LOT 1 BLK 25, Ethridge & Fuller Subd. William J Coakley vs M V Hevrin..... \$49

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
 ril 29, 1931—LOT 3 BLK 2 N R 1 E Gilroy, also part Lot 2 Blk 2 N R 1 E, Gilroy. Samuel Cacamo to Bank of America et al..... \$592.81
 ril 17, 1931—LOT 4 BLK 5, Hauxhurst Addition, Palo Alto. Tilden Lumber & Mill Co to Thomas Garcia..... \$421.29

BUILDING PERMITS

STOCKTON

REPAIR fire damage, \$1168; No. 16 N-EI Dorado St., Stockton; owner, Katherine Blum, Premises; contractor, Lewis & Green, Bank of Italy Bldg., Stockton.
 REBUILD natatorium, \$10,000; No. 510 N-Aurora St., Stockton; owner, Olympic Baths, 510 N-Aurora St., Stockton; contractor, Lewis & Green, Bank of Italy Bldg., Stockton.
 DWELLING, brick veneer, 6-room and garage, \$4500; No. 1536 W-Harding Way, Stockton; owner, H. L. Livezey, 1552 Carmel Ave., Stockton; contractor, J. M. Heisterbrand, 2644 E-Main St., Stockton
 DWELLING, stucco, 6-room and garage \$4200; No. 2647 Crafton Way Stockton; owner L. M. Gauthier; contractor Guy W. Don aldson.

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 April 23, 1931—LOTS 4 AND 5 BLK 3, Amended Richmond Pacific Heights. E S Brunzell to self.....
 April 24, 1931—LOT 1 BLK 5, Town

of Pinole. George H and Jennie Hooker to J F Croll..... April 22, 1931
 April 24, 1931—LOTS 39 AND 40 Blk 4, Richmond City Center. F A Mero to whom it may concern..... April 17, 1931
 April 24, 1931—LOT 31 AND E ½ Lot 30 Blk 16, Richmond Traffic Center. Norman E Anderson to whom it may concern..... April 18, 1931
 April 27, 1931—LOT 2 BLK 228, Central Addn to Pittsburg. Charles and Ruth Schantz to Chas Isackson also known as Charles Isaacson..... April 29, 1931
 April 28, 1931—PTN LOT 12 BLK A, Map No. 3, Portion of Parkside Addition and the Racetrack Sub. Fred L and Hattie F Rose to whom it may concern..... April 24, 1931
 April 29, 1931—LOT 22 BLK 303, Cornwall Sub., Pittsburg. D M Eyre to D M Eyre..... April 22, 1931
 April 29, 1931—MT, DIABLO CO. Y Club via Pacheco, California Water Service Co to Hutchinson Co. (pipe line from Galindo Pumping Station of California Water Service Co.)..... April 22, 1931
 April 29, 1931—LOTS 25 AND 26 Blk 9, Spaulding Richmond-Pullman Townsite. C Spaulding to whom it may concern..... April 24, 1931
 April 29, 1931—LOTS 2 AND 3 BLK F, Subdivision of Ptn of Blk 137, San Pablo Rancho. Tony Braga to Valine & Lawrence..... April 29, 1931
 April 30, 1931—FIRST ADDITION to Bay Addition to Town of Crockett (2 described parcels) Karl S Koller to Karl S Koller..... April 28, 1931
 May 1, 1931—LOT 8 in Bella Vista Subdivision, Lewis G and Pearl L Chambers to whom it may concern..... April 30, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 April 30, 1931—LOTS 23 AND 25 Blk A, New Richmond Addition. Mastercraft Tile & Roofing Co vs Valine, Lawrence, J and Mary Ambrosio..... \$297.18
 April 29, 1931—LOTS 23 AND 25 Blk A, New Richmond Addition. Richard Johnson and Thomas Neilsen (as Richmond Hardware Co), \$112.20; David Kessler and H A Swearingen (as Richmond Sheet Metal Works), \$182.20 vs John and Emnie Ambrosio; Frank Lawrence and C Valine.....

RELEASE OF LIENS

CONTRA COSTA COUNTY

Recorded Amount
 April 29, 1931—LOT 36 AND N ½ 35 in 35, North Berkeley Terrace. McDonald's Electric Shop to Richard and Ellen Louise Weber and W E Bockover.....
 April 29, 1931—LOT 36 AND N ½ 35 in 35, North Berkeley Terrace. M M Friedman, \$—; L H Miltz, \$— and Marcus & Merrick, Ltd \$— to Richard Weber.....

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
 May 4, 1931—STOCKTON & Tracy Districts. Southern Pacific Co to Pearl Peterson Co..... April 29, 1931
 April 30, 1931—LOT 3 BLK 10 Map E, Subdivision 2, Tuxedo Park. G F Dobson to Paul Dobson..... April 25, 1931

LIENS FILED

SAN JOAQUIN COUNTY

Recorded Amount
 May 5, 1931—SECTION 26, 27, 34, 35, 36 T 1 N R 5 E. Star Lumber Co, Inc vs Lloyd Wood Jr..... \$127.49

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 May 1, 1931—LOT 15 BLK 8, Proctor Terrace Addition to Santa Rosa. Mrs. V Guigni to Mutual Home Builders Assn..... April 30, 1931
 May 1, 1931—NO. 120 RIDGEWAY Ave., Santa Rosa. Joseph Saske to A E James and E A James..... May 1, 1931
 May 1, 1931—NO. 128 RIDGEWAY Ave., Santa Rosa. Frank W and Leoline L Saske to E A and A E James..... May 1, 1931
 May 2, 1931—LOT 161 BLK 6, Wheeler's 2nd Addition to Santa Rosa. C W Gaudy to whom it may concern..... April 17, 1931
 May 5, 1931—NO. 604 S-DAVIS ST., Santa Rosa. Robert D Maxwell to whom it may concern..... May 5, 1931

LIENS FILED

SONOMA COUNTY

Recorded Amount
 May 4, 1931—LOT 8 BLK 35, McDonald's Addition to Santa Rosa. L L Dibble vs W T Owen..... \$504+\$5
 May 4, 1931—LOT 8 BLK 35, McDonald's Addition to Santa Rosa. George Mitchell vs W T Owen..... \$252.45+\$9
 May 4, 1931—LOT 8 BLK 35, McDonald's Addition to Santa Rosa. Santa Rosa Building Material Co, Inc vs W T Owen..... \$504+\$5
 May 4, 1931—LOT 8 BLK 35, McDonald's Addn to Santa Rosa. R D Robinson vs W T Owen..... \$230.46
 May 4, 1931—E 80 FT. LOTS 2 & 4 Blk 4, Norwood Addition to Santa Rosa. Sterling Lumber Co vs Thomas M and Beulah M Daniels..... \$188.79

COMPLETION NOTICES

MONTREY COUNTY

Recorded Accepted
 April 30, 1931—ALL THAT PORTION of Lot 9 Blk 15.5 of Homestead Addition to City of Salinas. Ivon T Lemmons to whom it may concern..... April 29, 1931
 April 30, 1931—HIGH SCHOOL SITE Pacific Grove. Pacific Grove High School District to W H McConnell..... April 24, 1931

RELEASE OF LIENS

MONTREY COUNTY

Recorded Accepted
 April 30, 1931—LOT 13 BLK 158, First Addition to Carmel Woods. Ed Simpson to Sadie and Milton Latham..... \$423.19
 April 30, 1931—LOT 12 BLK 158, First Addition to Carmel Woods. J E Eckett to Sadie Latham..... \$185
 April 30, 1931—LOT 13 BLK 158, First Addition to Carmel Woods. A and Mario Marotta, \$174.80; T A Work Jr and Stuart A Work, \$902.61; Tynan Lumber Co, \$245.04 to Milton and Sadie Latham and Wade O Halsted.....

BUILDING PERMITS

SACRAMENTO

RESIDENCE and garage, \$4950; No. 2241 Ninth Ave., Sacramento; owner, N. H. Lund, 2549 6th Ave., Sacramento.

RESIDENCE and garage, \$4450; No. 1200 Perkins Way, Sacramento; owner and contractor, Land Drive Terrace, 819 J St., Sacramento.

RESIDENCE and garage, \$4275; No. 2257 9th Ave., Sacramento; owner, College Investment Co., 817 J St., Sacramento.

RESIDENCE and garage, \$5350; No. 2711 Land Park Drive, Sacramento owner, W. E. Phillips, 2101 9th Ave., Sacramento.

RESIDENCE and garage, \$6000; No. 3501 McKinley Blvd., Sacramento; owner, John Fernandez 3030 1/2 33rd St. Sacramento.

ADDITION \$2500; No. 316 Alhambra Blvd., Sacramento; owner, Purietta Sausage Co., Premises; contractor, Mundet Cork Corp.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
 May 1, 1931—LOT 46 BLK 5 Colonial Heights. Fred Stuckert Sr to whom it may concern. April 30, 1931

May 2, 1931—LOT 125 New Era Pk. Mr and Mrs F E Bauer to whom it may concern. May 1, 1931

LIENS FILED

SACRAMENTO COUNTY

Recorded Amount
 April 30, 1931—LOT 9 AND W 1/2 Lot 10, Swanston Acres. General Supply Co, Inc vs James A and Elsie M Schaublin, reputed owner; Wm M Armstrong, recorded owner. \$134.01

April 28, 1931—LOTS 3, 4, 5, 6, 7, 8, 9 10 and 11 Alhambra Tract Sacramento. Geo L Danner vs Edward and Frances C Wahl and Edward and Zue Geery Pease. \$68.78

BUILDING PERMITS

FRESNO

DWELLING and garage, \$6000; No. 1305 Thorne St., Fresno; owner, Paul McCorkle, 1603 G St., Fresno; contractor, J. D. Shorb, 1295 Linden St., Fresno.

SOFT drink stand, \$1500; No. 601 Belmont St., Fresno; owner, James Manos, Premises.

DWELLING, \$2750; No. 1605 Webster St., Fresno; owner, Mrs. Ed Wright; contractor, W. H. Richmond, 1379 Adolinc St., Fresno.

DWELLING and garage, \$3000; No. 637 North Broadway, Fresno; owner, L. L. Hammond.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 May 1, 1931—E 20 FT. LOT 19, Lot 20 Elk 2, College Addition, Fresno. John G Porter to whom it may concern. April 29, 1931

May 2, 1931—LOT 11 BLK 1, Lakeside Terrace No. 2, Fresno. J M Heltterbrand to whom it may concern. April 29, 1931

May 2, 1931—LOTS 5 AND 6 Part Lot 4 Blk 72, Fresno. Clark's Dollor Stores to Walter T Harris. May 2, 1931

May 2, 1931—PART LOTS 19 TO 27 Blk 131, Fresno. W P Pickford et ux and The Texas Co to J T

Cowan April 24, 1931

May 4, 1931 — LOT 9 BLK 25, Alta Vista Terrace, Fresno. Alexander Cruzan et ux to whom it may concern. April 30, 1931

April 29, 1931—Lot 21, Easterly Rancho. Lionel Dalton to whom it may concern. April 29, 1931

April 29, 1931—LOTS 11 AND 12 Blk 6, Avalon Heights. Homer G Reddick to whom it may concern. April 27, 1931

LIENS FILED

FRESNO COUNTY

Recorded Amount
 April 29, 1931—LOTS 51 TO 63, Elm Addition No. 4, Fresno. C E Pierce Lumber Co vs Pacific Coast Fire Works Co et al. \$290

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone SUTTER 1684).

R-3559-S SALES ENGINEER, to sell sprinkler systems for outside and inside irrigation. Straight commission. Opportunity for right man. Location, San Francisco.

R-2537-S SALESMEN, to take agencies for a patented device for testing automobile brakes. Reasonable price and good commission. Territories open for exclusive rights. Headquarters, San Francisco.

R-3545-S WORKING PARTNER, for outside sales promotion of ornamental metal work. Prefer man with architectural experience and sales ability who is prepared to finance self during trial period while selling on commission. Business is established. Location, San Francisco.

R-3544-S GRADUATE ENGINEER, age 41, with California registration and electrical engineering exper-

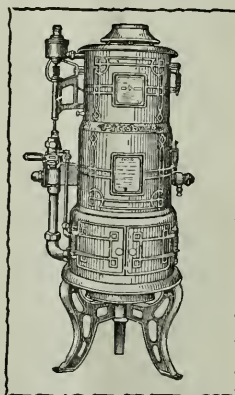
ience, desires to connect with established engineering firm in capacity of partner. Has no capital to invest where hard work and application will pay dividend. Address communications in care of this office.

R-3554-S CHIEF STATIONARY ENGINEER, preferably with technical training and well up on combustion theory, for responsible position large steam plant. Must be a man with experience in actual charge operation of steam power plant. Salary \$275 per month to start. Apply by letter with personal data, detailed experience and reference Location, Southern California.

R-3556-S STRUCTURAL DESIGNER experienced on dams and other hydraulic structures, to check and detail also. Must be technical graduate, American citizen and resident of San Francisco. Temporary. Salary \$250 per month. Apply by letter Location, San Francisco.

R-3309-S ENGINEER, preferably E. or M. E. graduate, not over 35, single, good personality and considerable mechanical ability, to service work and testing of hydraulic machinery. Must have experience in hydro-electric plant construction or operation. Salary about \$175 per month. Apply by letter with photo. Headquarters, San Francisco.

The Division of Industrial Fire Safety of the State Department of Industrial Relations is striving to eliminate those dangers that contribute to the risks from fire. State institutions have received attention, and fire chiefs in different cities of California have given their services, without charge, to assist State authorities. Dry cleaning plant owners are more and more appreciating the aid given them in maintaining safe places of employment, especially in relation to the inflammable liquids used in the industry.



A "Pittsburg" Automatic Water Heater installed in the Home indicates high quality throughout.

Recommended and specified by all the leading architects, plumbers and builders.

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BUILDING *and* ENGINEERING NEWS

Publication Office
547 Mission Street

SAN FRANCISCO, CALIF., MAY 16, 1931

Published Every Saturday
Thirty-fifth Year, No. 20



OAKLAND
BUILDERS'
EXCHANGE
GLencort 7400



A Pointer on **P**rinting

Printing matter is not a commodity—it is a necessity, like the salt in our soup. Without printing matter modern business is unthinkable. The more we invest in printer's ink—that is *in the right kind of printing*—the greater the results. Therefore it is of vital interest to select the RIGHT kind of printer. — There are printers AND printers—but few are self-containing in mechanical and creative ability.— Put us on the track, and, like this pointer in suspense, we will bring back the bacon.

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The House of **PERSONAL SERVICE**

Building and Engineering News

Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

Issued Every Saturday

SAN FRANCISCO, CALIF., MAY 16, 1931

Thirty-fifth Year, No. 20

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J. E. ODGERS, Advertising Manager

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Building and Engineering News will be sent to subscribers until ordered stopped and all orders to discontinue must be sent in writing to this office.

CERTIFIED INSULATION IS BACKED BY DEALERS

Certified insulation is the aim of the asbestos Bureau Incorporated, composed of manufacturers and dealers, interested in the manufacture and sales of asbestos.

The aim of the bureau is to assure a owner full value and lower costs; assure the architect responsible bidders; assure the engineer specifications fulfilled; assure the general contractor more responsible subcontractors; assure the steam fitter and plumber better performance of his job and uniform costs with his contractor; assure the asbestos house improved standards of materials and workmanship.

California firms which will offer certified insulation include the Asbestos Co. of California, San Francisco; Jones Bros. Asbestos Company, San Francisco; Western Asbestos Company, San Francisco; City Asbestos Company, Oakland; Burlington Engineering Co., Los Angeles; Rubber and Asbestos Works, Northern Asbestos and Magnesia Corp., and Warren and Bailey Co., all in Los Angeles, and the Marine Engineering and Supply Co., of Wilmington.

The following Pacific Northwest firms comprise the bureau: Asbestos Supply Co., Seattle; Charles R. Power & Co., Seattle; V. S. Jenkins Co., Seattle; Asbestos Supply Co. of Tacoma; Gillen-Cole Co., Tacoma; Asbestos Supply Co. of Oregon, Portland; Gillen-Cole Co., Portland; Pacific Asbestos & Supply Co., Portland.

LUMBER COMPANY RECEIVER NAMED

George R. Hicks, president of the coking Lumber Company, at \$35,000 concern was appointed receiver for his firm last Saturday by Federal Judge Albert L. Reeves of Kansas City.

The receivership was ordered upon application of Harold H. Woodbury. There was no opposition when the appointment was heard in court.

The receivership does not include a Pickering Lumber Sales Company formed last year with about \$4,000,000 assets, the company's active market subsidiary.

The company recently defaulted interest coupons for May 1.

The Wright Manufacturing Company, Bridgeport, Conn., has issued a new catalog on Wright Electric Hoists. The catalog contains forty-eight pages and gives a complete description of Wright Electric Hoists, with all dimensions and other useful data. The hoists include hook and slot suspension; plain, geared and motor driven trolleys; and drum and wheelhead types.

HUGE FEDERAL BUILDING PROGRAM

The Federal Government is preparing to spend \$150,000,000 within the next nine months on its public buildings program, President Hoover announces.

Hoover said \$119,000,000 has been expended on buildings completed within the last 18 months. Within the next 90 days \$55,000,000 will be expended, the President said. The following 90 days \$40,000,000 additional and the third 90-day period will provide for expenditure of \$40,000,000.

The entire program provides for 395 new buildings throughout the country, a project suggested by Hoover to take up slack employment during the business depression.

Hoover said he would announce this week a complete list of all the buildings completed, being constructed and to be constructed.

TEHACHAPI PRISON LOCATION APPROVED

The site chosen at Tehachapi, Kern County, for the proposed new state prison for women, was given a "clean bill of health" by the report of a special Senate investigating committee, just filed.

The committee, composed of Senators Walter H. Duval, Santa Paula; Henry E. Carter, Los Angeles, and John L. Moran, Corning, was named after a charge was filed that there was an inadequate supply of water for the institution.

Instead, the report declared, there is "an abundance" of water on the site and that the department of public works should proceed immediately to construct the necessary buildings for the institution.

Accompanied by W. H. Rockingham, engineer of the State Department of Agriculture, the committee visited the site. They reported:

"The place selected for the buildings is located over a wash of the valley, and upon poor soil. The committee recommends that the location of the buildings be changed to higher and more fertile ground."

"The site is most admirably adapted for the prison and the committee hereby recommends that the request directed to the director of public works to withhold the award of contract for construction and improvement of said site be revoked to the end the board of trustees may proceed with the improvement of the property."

Copper welding by the Premag process is explained in an 8-page bulletin issued by Murex Welding Processes, Ltd., Forest Road, London, E. 17, England.

SEEK BIDDERS FOR LOWER CALIF. PROJECT

The construction of 1000 miles of 18-foot California type highway along the coast of Lower California is planned by the Lower California Development Co., of Los Angeles.

J. E. McElroy, of Chicago, engineer and the owner of land which the proposed road will traverse, desires to make contacts with the contractors who will be interested in bidding on the construction of 50 to 100-mile sections of this highway. The company plans to improve present graded roads and wagon trails in the land, about 4,250,000 acres, owned by the company which extends along the west coast of the peninsula for approximately 600 miles. The starting point of the company's highway will be about 350 miles below Tijuana.

The road construction, drilling of water wells, installation of pumping plants, and other engineering features will be supervised by a firm of consulting engineers not yet announced.

Plans of the company include the construction of a \$400,000 hotel of 100 rooms, at Magdalena Bay, and three other smaller hotels where needed. Arrangements are being completed to build 16 auto camps and oil and gasoline service stations along the proposed route.

McElroy states that a \$20,000,000 bond issue will probably be placed through New York, Chicago and Los Angeles investment banking houses.

Members of the company, in addition to J. E. McElroy, are O. W. Hines, E. P. Hughes, Dave Chapman, and several Mexican capitalists.

Offices of the Lower California Development Company are located in the Merritt Building, Los Angeles.

HONEY-COMB GRAVITY TYPE DAM PROPOSED

C. E. Grunsky, consulting engineer of San Francisco, has proposed a new type of construction for dams which he calls a "honey-comb gravity dam." It consists of horizontal or inclined cells in tiers extending downstream from the solid concrete upstream face of the structure. The successive tiers would be separated by construction joints. Vertical construction joints extending the full height of the structure would divide it into blocks.

Advantages of the proposed design are that the cells or galleries would provide adequate drainage, would minimize the effects of heat generated by setting of the concrete, and would save material. Pressure of the impounded water would be utilized to give stability to the dam by a 4 to 2 slope on the upstream face. To make the structure watertight, a metal diaphragm would be imbedded in the upstream face.

THE OBSERVER

What He Hears and Sees on His Rounds

Can an employer who has entered into a sub-contract to perform work on a certain building recover damages against the labor unions of which, with his knowledge, his employees are members, because those unions have ordered them to quit work on the building in question for the reason that the general contractor has refused to employ union labor on other jobs in the same locality? There was no contract of employment between the sub-contractor and his employees.

The Court says: "That the injury to the plaintiff which arose from the strike was inflicted upon it, an innocent party, in order to compel it to coerce the general contractor. The real grievance of the union was not with the plaintiff, but with the general contractor for his not unionizing his work, and the plaintiff is the innocent victim."

"Organized labor's right of coercion and compulsion is limited to strikes on persons with whom the organization has a trade dispute. There was no such dispute with the plaintiff in this case and the plaintiff is entitled to relief."

"The judgment will be affirmed, with costs."

A national privately owned organization to help finance home building is being suggested in Washington, it is reported by Paul Wooten, correspondent for Engineering News-Record in the nation's capitol. A decided shortage exists in the more reasonably priced homes. It is contended that home owning, even in houses of better grades, is being discouraged by high financing costs. This is certain to continue as long as speculators are being relied upon to furnish the bulk of housing. Such a national company, if certain outstanding men can be interested in the project, could be functioning by autumn and could stimulate building to an extent entirely impossible under the present disorganized system, it is believed.

Sectional selfishness, provincial jealousy and interference by the so-called trust last Friday caused proponents of the \$175,000,000 state-wide water program to abandon efforts to obtain action at this session of the Legislature. As a result Gov. James Rolph will probably call a special session either next July or January.

A proposal that all building construction undertaken with public funds be done by residents of the city is proposed in an ordinance submitted to the city council at Visalia, Calif. The proposed measure is said to have the approval of the Visalia Building Trades Council and the Chamber of Commerce. It would require that any laborer on a building job undertaken by public money in Visalia be a resident of that city for at least 6 months or that he be a home owner. The ordinance was proposed by Councilman E. R. Connelly.

Unfilled tonnage of the United States Steel Corporation amounted to 3,897,729 tons on April 30, a decrease of 87,601 tons from the total of 3,985,330 tons on March 31, 1931. On February 28, unfilled tonnage amounted to 4,132,351 tons and on April 30 the amount stood at 4,354,226 tons.

As a result of the cement-price war, the state highway department of Minnesota is making cement contracts for its 1931 paving program on a basis of 90c, a barrel net, in bulk, at the mill plus freight. The department will replace, at the new figure, contracts entered into last December for 959,882 barrels of cement for 247 miles of paving and will also buy at this price cement for the additional paving program made possible by the legislative bond issue authorization and special federal aid.

A plan for the public sale of \$250,000,000 worth of bonds to rebuild slum and tenement districts of the Nation was approved by the America Construction Council at its annual meeting in New York City, last week.

The Senate last Friday defeated the "yellow dog" contract bill by a vote of 22 to 15. The bill was introduced by Senator J. M. Inman, Sacramento, on behalf of organized labor. It would make illegal any contract under which an employer requires an employee to promise to refrain from joining any labor union or from associating with any union labor group while remaining on the payroll. Similar bills have been before the legislature for several sessions.

For the first time in its history the American Society for Testing Materials will sponsor an exhibit of testing apparatus and machines in conjunction with the annual meeting of the society in Chicago, June 22-26. The exhibit has been planned with a view to having a distinctly scientific and broadly educational atmosphere which will be consistent with the technical nature of the society's activities.

A comprehensive discussion of the use of scraper mucking in mines is contained in a 118-page illustrated booklet issued by the Sullivan Machinery Co., 400 North Michigan Ave., Chicago, Ill., at \$2 per copy. The book is divided into two major sections, the first half being devoted to an analysis of the elements and the setting up of general principles of scraper mucking, while the second half contains descriptive matter collected and condensed from previously published articles illustrating applications of the principles.

Pamphlets describing spiral welded pipe and a new metal curb and tie rod design for highway construction have been issued by the American Rolling Mill Co., Middletown, Ohio.

Palo Alto reports the issuance of 42 building permits in April for improvements involving an expenditure of \$79,800 as compared with \$78,200 for the corresponding period in 1930. Fourteen homes were put under construction last month. These will cost \$72,400.

Fifty-two machinists, tool and die makers and apprentices in the Emeryville plant of the Marchant Calculating Machine Company, walked out when the company ordered a reduction in wages, according to Sidney M. Jacobs, business agent for Machinists' Union No. 284. The company declares, however, that only eight or nine employees "walked-out."

ALONG THE LINE

Lincoln Electric Co., Cleveland, has advanced George G. Landis to the post of chief engineer.

Edward R. Newman will operate from 1540 Ninth St., Alameda, under the firm name of Star Electric Shop. Rudrick M. Berryhill, city manager of Tulare, Calif., at the first regular meeting of the newly installed council, was unanimously retained city manager.

Adolph Schaffer, 69, pioneer plumber of Red Bluff, died in that city May, following a stroke suffered several months ago.

Frederick S. Harrison, architect, announces the removal of his office from the Pacific States Bank Bld., to 1005 Tenth St., Sacramento.

Stephen Puter, 75, retired California lumberman, died at his home in Buellton, last Sunday. Puter, a native of Trinity County, was among the pioneers in the early California lumber industry. His widow and 10 daughters survive.

Clay V. Brown, building contract 521 N 16th St., San Jose, has filed notice of bankruptcy. He declares he has incurred debts totaling \$9,018, which \$6,463 are secured. He lists his assets as his home, valued at \$500, entirely covered by mortgages.

The Los Angeles county supervisors have authorized E. C. Eaton, chief engineer of the county flood control district, to take the necessary steps to secure a \$1,000,000 federal appropriation for construction and repair of jetties at the mouths of the Los Angeles and San Gabriel rivers and Ballona creek, where these tributaries empty into the ocean.

A. A. Horwege has joined the staff of Robinson-Roberts Company of Los Angeles, general contractors, and will have charge of highway and public works construction. Horwege worked for ten years superintendent of the California Construction Company, San Francisco and prior to that time was engaged as division engineer with the Nevada State Highway Department, city engineer of Petaluma and later in the service of the engineering department of San Francisco.

Holding President Hoover primarily responsible for what he termed failure properly to meet emergency conditions resulting from the business depression, Norman Thomas, former Socialist candidate for president, said Democrats and Progressives in congress were partly to blame.

In an address opening the third, first annual convention of the World Laborers' Circle, a labor fraternal organization in Washington, D. C., last Tuesday, Thomas said "the political capitalism have not, of course created" the depression.

Nevertheless, he continued, "do party politicians have stupidly or deliberately misled the people by promising a degree of freedom, peace and plenty under capitalism which they could not deliver. The engineer in the White House," he added, "has been an engineer of disaster for the workers. His ruling passion is the defense of private profit under the false name of rugged individualism."

Jan. A. Talbot has resigned as president and director of the Western Pipe & Steel Co. of California and Edward G. Tallard, formerly executive vice-president, has been elected to succeed him. Talbot's resignation is forth that his personal affairs require so much of his time that he found it impossible to continue to manage the company in an executive capacity.

Westinghouse Electric & Manufacturing Company recently completed an addition to its plant at Erie, Pa. The plant covers three acres of ground area and is part of a two-million dollar Westinghouse manuf-

S. G. Masters will operate from 919 Eleventh Street, Oakland, under the name of Masters Electric Co.

Phillip T. King, 50 Church St., New York City, has purchased from the industrial Brownhoist Corp., its entire asset stock of crawler cranes and ovens, with the understanding that additional machines of this type will be built for at least three months during the consolidation of the Cleveland, Ohio and Bay City, Mich., plants the corporation at Bay City.

S. R. Dresser Mfg. Co. and Mercor Industrial Valve Co. are planning to consolidate, according to plans disclosed in a letter addressed to stockholders of the Dresser company requesting their approval. Assent to the merger plan has already been given by directors of the company, and also by directors and stockholders of the Mercor-Nordstrom company. Formation of new company with assets of nearly \$1,000,000, to be known as the Dresser Nordstrom Co., is contemplated.

S. M. Kintner, who has been assistant vice-president of the Westinghouse Electric & Manufacturing Company, was elected vice president in charge of engineering for that company at a recent meeting of the Board of Directors. He succeeds W. S. Tugg, who has been elected vice president in charge of sales.

Paul Pemberton, for the last ten years sales manager of the W. E. Cooper Lumber Co. of Los Angeles has agreed to continue in the lumber business but has not announced his plans for the future.

Ralph W. Flege will operate from 69 East Fourteenth Street, Oakland, under the firm name of Crown Roof Company.

The Board of Directors of the National Lumber Manufacturers Association in Chicago unanimously voted last week to continue the National Trade Extension campaign for lumber and lumber products. At the same time it approved of the new trade extension campaign presented by the trade Extension Committee under the title "Making Lumber Promotion Permanent." This plan calls for a maximum expenditure of approximately \$1,500,000 a year. It is planned to bring into the circle of financial support the timber owners, loggers, mill manufacturers, wholesalers and the principal lumber consuming industries. The officials of the National Trade Extension will have the moral support of the retailers even other than in the past.

Roy Vernon Isher, for ten years connected with the lumber industry in the Santa Clara county section, has become associated with the San Jose Lumber Company with headquarters in San Jose. In his new position, Isher will specialize in the design and sale of summer cabins.

WAGE CUT AIM OF BUILDING EMPLOYERS

Perhaps the outstanding feature of the wage situation during the first month is the growing tendency on the part of building employers toward efforts in wage reductions, says General Building Contractor. While actual reductions have been generally limited to "open shop" cities, negotiations are under way in a number of cities where union labor predominates looking towards a reduction. The fact that many agreements are nearing expiration is responsible for bringing this question to the fore at this time. Agreements have expired in Boston on April 1, but there have been no revisions and it is believed that the present wage will stand. Discussions are taking place in other cities, however, looking towards a downward revision; so far, no "closed shop" city has signed any new agreements at a lower scale than has prevailed heretofore. The strongest effort has been made in Waterloo, Iowa, where contractors attempted to reduce the six highest paid trades. Their offer was refused, whereupon the contractors have declared open shop. It must be pointed out, however, that no real work the situation can be made because of the fact that only one building job is in progress in that city at this time.

It is reported that Omaha, Nebraska, has been paying building labor about 10 per cent under the official scale. This practice is growing and while it is not effective on large metropolitan building projects it finds a fertile field in suburban construction. In Salt Lake City it is reported that all building trades have joined the carpenters and bricklayers in demanding the five-day week. The proposal is being resisted by the organized contractors of that city.

The following important changes in wage scales have been reported for the past month:

Increases	
Philadelphia, painters,	from \$1.07½ to \$1.12½
Rochester, N. Y., bricklayers,	from \$1.59 to \$1.58½; plasterers, \$1.50 to \$1.53½; stone masons, \$1.50 to \$1.53½; tile setters, \$1.43½ to \$1.51½
Salt Lake City, electricians,	\$8 to \$9.
Decreases	
New Orleans, bricklayers from \$1.50 to \$1.25; carpenters, \$90 to \$55-\$75; plasterers, \$1.50 to \$1.25; roofers, \$1.27½ to \$1.25.	
Memphis, sheet metal workers,	\$1.37½ to \$1.25.

BUILDING GAINS ON PACIFIC COAST

Continued improvement in the building industry on the west coast during April is shown in the monthly building permit compilation released by S. W. Straus & Co.

Among the first 32 cities to report, 20 showed substantial gains in April over March of this year. These included San Francisco, Seattle, Sacramento, Berkeley and Spokane. Seventeen of the 32, or more than half of the group, showed gains over the same month last year, while 15 of the cities reported increases over both the preceding month and April, 1930.

Twenty-two of these first 32 cities reported permits in excess of \$100,000. Among this group were Salinas, Astoria and Tucson, which had appeared during the previous month.

The largest gain proportionate to the size of the city was registered by Astoria, Ore., with permits totaling \$264,547.

Among the cities reporting gains ov-

er both March this year and April, 1930, were San Francisco, Sacramento, Salinas, Burlingame, Orange, Pacific Grove, Spokane, Vancouver, Wash., Tucson, Astoria, and San Bernardino.

Leading cities in March maintained their respective ranks during April, with Los Angeles, San Francisco and Oakland in consecutive order. Seattle again returned to fourth place, followed by San Diego, Spokane and Portland.

With the exception of Los Angeles, Long Beach and Portland, all of the first ten cities showed increases over either the previous month or the same month last year, or over both comparable periods.

PLUMBING FIXTURE FIRMS IN MERGER

The consolidation of the West Coast Porcelain Manufacturers of Millbrae, San Mateo County, and the Sunset Plumbing Fixtures Inc., of Los Angeles into a \$2,000,000 company is announced.

Executives and business offices of the new firm will be maintained in Los Angeles and both products will be marketed under the trade name of "Sunset" on the Pacific coast.

Officers and directors of the new corporation are: Moritz Thomsen, Seattle, chairman of the board; Adolph Ramish, Los Angeles, president; Chas. M. Thomsen, Seattle, first vice-president; R. C. Troeger, Los Angeles, executive vice-president and secretary; W. R. Coates, Los Angeles, treasurer, and W. A. Shaw, San Francisco, director.

Negotiations are pending for the acquisition of another manufacturing unit in the plumbing industry. It was said, the consummation of which is expected soon.

The merger does not include the old unit of the West Coast Porcelain Manufacturers, which will remain intact. The opening of the old unit in a new line of industry with a prospective personnel of some 150 men is rumored.

BRIDGE DESIGN AWARDS ARE MADE

For the most aesthetic design of a bridge in steel, the American Institute of Steel Construction has awarded five prizes totaling \$1,200. The prize winners were selected from some 150 students of engineering and of architecture in the various colleges and universities of the United States and Canada.

The first prize of \$500 for the best design by a student of architecture went to R. F. Weber of Atelier Adams Nelson, Chicago. The second prize of \$250 was awarded to Glenn E. Crispin of Iowa State College and the third prize of \$100 went to Lester W. Casey of Iowa State College.

The jury decided to withhold the first prize to the group who contended for the best design by an engineering student. The second prize in this group for \$250 was awarded to Jeremiah C. Indolo of the University of Pennsylvania, and the third prize of \$100 went to Covert Robertson of the University of Michigan.

The jury making the selection consisted of Dr. Ralph Modjeski, consulting engineer; Dr. Shortridge Hardesty, consulting engineer; H. M. Burdock, architect; Clinton Mackenzie, architect, and F. E. Schmitt, editor of Engineering News-Record.

This is the third annual competition held by the Institute on bridge designing by students.

NAVIGABLE WATERS DEFINED BY COURT

In ruling on the master's report in the dispute between Utah and the United States over the title to portions of the beds of the Green, Grand and Colorado rivers, the U. S. Supreme Court has held that the determining point is whether or not the rivers in question are navigable. The suit was brought by the United States to quiet title to certain portions of the beds of rivers on the contention that the government acquired these titles in the treaty of Guadalupe Hidalgo of 1848. By this treaty it is contended that the United States acquired from the Republic of Mexico the title to all lands riparian to the rivers together with the river beds.

On the other hand, the State of Utah, claimed title adverse to the United States. Both the state and the United States have granted a number of prospecting permits in the disputed territory. Charles Warren, the special master to whom the case was referred, concludes in his findings that the title is vested in the State of Utah in the case of rivers that are found to be navigable but where the rivers are non-navigable the title remains vested in the United States.

Despite the contentions of the government that the rivers are navigable the supreme court has sustained the principles involved in the master's report. In the opinion of the court, the issue rests upon whether or not the rivers were navigable when the State of Utah was admitted to the Union in 1896. In deciding on navigability, the court has ruled that it is not correct to use a narrow interpretation.

As a test of navigability, the supreme court has handed down the following rule: "Those rivers must be regarded as public navigable rivers in law which are navigable in fact and that they are navigable in fact when they are used, or are susceptible of being used, in their ordinary conditions, as highways of commerce, over which trade and travel may be conducted in the customary modes of trade and travel on water."

It is true that some of the commerce on the rivers in question was composed of lumber rafts and that some of the rest of the navigation was of a private nature, constituting traffic for surveying and mining operations. Despite this, the supreme court has been convinced by the evidence submitted that extensive use has been made of portions of the rivers by public commerce vessels such as steamboats, flatboats and motor boats.

It is therefore ruled that the complaint of the United States shall be dismissed so far as it relates to portions of the beds of the rivers found to be navigable and that title in non-navigable portions shall remain in the possession of the United States.

PERPETUAL STATE WATER BUREAU PLAN

A new constitutional amendment setting up a perpetual state water conservation bureau, patterned after a similar agency in the federal government, has been introduced in the assembly by Arthur R. Honnold of San Diego.

The measure would create a bureau consisting of the governor, director of public works and state engineer, for the purpose of co-ordinating and putting into effect a general conservation scheme of water and land reclamation.

PORTLAND SALES UNIT DISSOLVES

The Central Sand & Gravel Co., selling organization for eight of the larger Portland sand and gravel firms, has been dissolved and is discontinuing business as of May 2.

The several companies which composed the Central Sand & Gravel Company will each continue business under their separate identity. They are: Columbia Contract Co., Hookett Digger Co., Hawthorn's Dock Co., Wickum & Kelly Sand & Gravel Co., Pacific Bridge Co., Ross Island Sand & Gravel Co., Star Sand Co., and James A. C. Tait Co.

H. P. Warren, who has been manager of the Central Sand and Gravel Co., is returning to the Portland Gravel Co., a producing company.

PURCELL SALARY BOOST APPROVED

A measure granting an increase in salary from \$10,000 to \$15,000 a year for C. H. Purcell, state highway engineer, was one of a group of bills passed by the assembly last Monday.

The bill, A. B. 1134, by R. L. Patterson of Kern County, was the subject of considerable debate, several assemblers holding the general conditions at this time do not warrant salary increases. A call of the house was kept on most of the afternoon while votes were being sought for the bill. The final vote was 53 ayes and 18 noes.

Sponsors of the bill pointed to the record Purcell has made as highway engineer as proof that he should be retained at a higher salary. The fear was expressed that he might be employed by a private corporation and that the state thus would be deprived of his services.

Promulgation of a national legislative program to be aggressively supported by organized general contractors at the next session of Congress is to be undertaken by the executive board of the Associated General Contractors of America, Edward J. Harding, managing director of the association, has announced.

Failure of the law makers, notably in the case of the Davis-Bacon Prevailing Wage Act, to frame legislation directly effecting the general contractor in such form that its purposes might be accomplished without hardships and uncertainties, has convinced the association that it must take a constructive hand in the framing of all such legislation in the future, Harding declared.

It is probable, he stated, that the association's program will include a constructive amendment to make the wage law workable and equitable and at the same time assure a living wage to construction labor. Bills for the reorganization of government contract statutes and for the authorization of a permanent national construction census also will receive the active support of the association, Harding believes, while the board undoubtedly will give favorable consideration to plans for pushing legislation in the States for long-term advance planning of construction and for prequalification.

Properties, sources and technical uses of "Ayr Sp" diatomaceous silica as an admixture for concrete are discussed in a pamphlet issued by the Industrial Chemical Sales Co., Inc., 230 Park Ave., New York City.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1884).

R-3554-S CHIEF STATIONARY EN-

GINEER, preferably with technical training and well up on combustion theory, for responsible position, large steam plant. Must be a man with experience in actual charge operation of steam power plant. Salary \$275 per month to start. Apply by letter with personal data, detailed experience and reference Location, Southern California.

W-2622-C-S (K-355) CHEMICAL EN-

GINEER for engineering company experienced in the sales of chemical machinery to establish branch office for the sale of chemical machinery. Men with a following in the territories preferred. Straight commission basis. Apply only by letter. Locations, Middlewest, Far West and South.

R-3544-S GRADUATE ENGINEER

age 44, with California registrarship, 10 years experience in engineering, experience, desires to connect with an established engineering firm of the capacity of partner. Has son capital to invest where hard work and application will pay dividend. Address communications in care of this office.

R-3550-S CHEMIST-ASSAYER, ex-

perienced on wet assay work, small mine producing gold, silver, copper, lead and zinc and requiring careful assays to operate. Salary \$165 per month. Apply by letter. Location, Northern California.

R-5562-S FLOTATION OPERATOR,

experienced, preferably single as accommodations for family. Mine runs on quicksilver ore. Salary per day less \$45 per month for board. Location, Northern California.

R-3559-S SPRINKLER ENGINEER, to se-

sprinkler systems for outside and inside irrigation. Straight commission. Opportunity for right man. Location, San Francisco.

R-3561-S TIME STUDY MAN, ex-

perienced, preferably with some knowledge of lumber manufacturing and the application of the Bedau system. Salary to start, \$125 per month. Location Northern California.

Detailed knowledge of the needs of

airports in connection with drainage and surfacing problems, and information as to present practices along these lines has been obtained from first-hand study of approximately 10 representative airports throughout the United States, undertaken by the Committee on Airport Drainage and Surfacing, it is announced by Harry H. Blee, Director of Aeronautic Development, Department of Commerce and chairman of the committee. The information together with data secured from a variety of other sources will be incorporated in the committee's report, the preliminary draft of which now is being drawn up by a subcommittee. The Committee on Airport Drainage and Surfacing was organized about a year ago, and included in its membership representatives of the American Engineering Council, the American Road Builders Association and the Aeronautic Branch of the Department of Commerce. Outstanding problems that have been given consideration by the committee include landing area requirements, grading, drainage, surfacing, runways, impact, surface textures, transition strips turf and treatment of soils to increase stability.

Building News Section

APARTMENTS

regated Bids Being Taken.
ARTMENTS Cost, \$60,000
KLAND, Alameda Co., Cal. Green-wood Ave. near Park Blvd.
 ree-story and basement apartments (wood frame and stucco exterior with concrete basement; 24 2- and 3-room apts.)
 ner—Withheld.
 ictect—H. K. Jensen, 354 Hobart St., Oakland.
 ile and composition roofing, gas ing system, hardwood flooring.
 us Complete.
ARTMENTS Cost, \$15,000
N FRANCISCO. SE corner Ellis and Franklin Streets.
 inforced concrete, steel and trick apartments (tar and gravel roof, electric stoves and refrigerators, 63 2- and 3-room apts.)
 ner—Bargene Realty Co., 323 Mo-nadnock Bldg.
 ictect—Charles E. J. Rogers, Phe-lan Bldg.
 bids to be taken in one week.

us Completed.
ARTMENTS Cost, \$200,000
WOOD, San Mateo Co., Cal.
 r-story and basement steel and concrete class C apartment build-ing (steam heating system; eight 3-room and 16 4-room apts.)
 ner and Builder—L. Dieguez, 30 W Poplar St., San Mateo.
 ictect—Wm. Toopke, 74 New Mont-gomery St., San Francisco, and O. G. Hintermann, associated.
 ub-bids will be taken within a few

b-Bids Being Taken.
ARTMENTS Cost, \$15,000
N FRANCISCO. Church St. S 15th.
 ree-story and basement frame and stucco apartments, the roof, steam heat, tile baths, six 2-room apts.)
 ner and Builder—R. H. Bell, 917 Hobart Bldg.
 ictect—Withheld.

regated Bids Being Taken.
ARTMENTS Cost, \$15,000
N FRANCISCO. 274 27th Ave.
 ree-story and basement frame and stucco apartments (three 4-room apts.; steam heat, tile roof).
 ner and Builder—W. Heidelman, 230 27th Ave.
 ictect—Withheld.

regated Bids Being Taken—To Close May 20th.
ARTMENTS Cost, \$60,000
KLAND, Alameda Co., Cal. Green-wood Ave. and Park Blvd.
 ree-story and basement apartments (wood frame and stucco exterior with concrete basement; 24 2- and 3-room apts.)
 ner—Withheld.
 ictect—H. K. Jensen, 354 Hobart St., Oakland.
 ile and composition roofing, gas ing system, hardwood flooring.

BONDS

ORICK, Humboldt Co., Cal.—Elec-trical will be held May 29 in Orick school District to vote Bonds of \$18- to finance erection of a new school. Trustees of the district are: M. P. King and Robert S. Davidson.

ROSS, Marin Co., Cal.—Bonds in the amount of \$40,000 were defeated by Ross School District to finance school improvement. Trustees of the district are: Gregory Jones, Ruth D. Brov and Clarence S. Burtchell. A. A. Cantini, 541 Market St., San Francisco, was the architect.

REDWOOD CITY, San Mateo Co., Cal.—Election will be held June 3 in Redwood City School District to vote bonds of \$55,000 to finance erection of a new school on Eagle Hill and for a 3-classroom addition to the Garfield School and the purchase of necessary equipment. John Gill is city super-intendent of schools.

CHURCHES

Low Bidder.
CHURCH Cont. Price, \$55,500
PITTSBURGH, Contra Costa Co., Cal. NW Black Diamond and W Eighth Streets.
 Two-story reinforced concrete church with steel roof trusses (120x12 ft.)
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco, a corp. Sole (St. Peter Martyr Parish), Rev. Louis A. Nasselli, rector.
 Architect—Arnold Constable, 580 Mar- ket St., San Francisco.
 Contractor — Larsen & Larsen, Russ Bldg., San Francisco.
 Will have full basement for Parish Hall and auditorium with seats for 700. Will have stucco finish, tile roof and be of Italian Romanesque style of architecture.
 American Seating Co., 650 Second Street, San Francisco, at \$4450 sub-mitted lowest bid on oak pews, per screens and kneelers, etc.
 There were thirteen bids submitted.

Plans Being Completed.
CHURCH Cost, \$20,000
SACRAMENTO, Sacramento Co., Cal. SW 9th St. and 4th Ave. (72x125 feet).
 One-story reinforced concrete and stucco church (seat 250; tile roof).
 Owner—1st English Lutheran Church, Sacramento.
 Architect — Wm. E. Coffman, Forum Bldg., Sacramento.
 Bids will be taken in one week.

SKILSAW Portable Electric Hand Saws (4 models).
SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attach-ments.
SYNTRON Portable Electric Ham-mers (4 models, motor-less).
MALL Flexible Shaft Machines (50 models).
 Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON
 Labor Saving Portable Electric Tools.

1248 Mission St. Underhill
 San Francisco 7682
SALES . SERVICE . RENTALS

Bids Wanted—To Close May 22.
CHURCH Cost, \$—
SANTA MONICA, Los Angeles Co., Cal. Tenth and California Sts.
 Two-story brick and stucco church plant (classrooms and offices).
 Owner—Trinity Baptist Church.
 Architect—Robert H. Orr, 1300 Cor-poration Bldg., Los Angeles.

FACTORIES AND WARE-HOUSES

Plans Being Figured—Bids Close June 1, 11 A. M.
HOG BARN Cost, \$8,000
STOCKTON, San Joaquin Co., Calif. Agricultural Park, County Fair grounds.
 Livestock building and hog barn.
 Owner—County of San Joaquin, Eu-gene D. Graham, county clerk, Stockton.
 Architect—Peter Sala, 2130 N Com- merce St., Stockton.
 Certified check 10% payable to the Chairman of the Board of Supervi-sors required with bid. Plans on file in office of clerk and obtainable upon deposit of \$10, returnable.

Prospective Bidders.
WAREHOUSE Cost, \$20,000
OAKLAND, Alameda Co., Cal. South Seventh St. E Fallon St.
 One-story concrete warehouse.
 Owner—George R. Borman Steel Co., 4th and Grove Sts., Oakland.
 Engineer—H. H. Bolin, Financial Cen- ter Bldg., Oakland.
 Following contractors will submit bids:
 James T. Walsh, 251 Kearny St., San Francisco.
 R. W. Littlefield, 337 17th St., Oak-land.
 Geo. Petersen, 1841 Bancroft Ave., San Leandro.
 Dyer Const. Co., Ray Bldg., Oakland
 H. J. Christensen, 2026 Broadway, Oakland.
 Jacobs & Pattiani, 337 17th St., Oak-land.
 H. L. Paige, 5651 Oak Grove, Oak-land.
 F. C. Stolte, 3449 Laguna Ave., Oak-land.
 Austin Co., 1924 Broadway, Oak-land.
 Bids will be opened May 13, 10:30 A. M.

FRESNO, Fresno Co., Cal.—Plant of Levi Junk Co., M St. and California Ave., suffered a \$60,000 fire loss May 11.

Contract Awarded.
WAREHOUSE Contract price, \$12,870
OAKLAND, Alameda Co., Cal. West 14th Street Pier.
 Structural steel for 1-story steel frame warehouse (518x100-ft.; Warehouse AA).
 Owner—City of Oakland (Port Com-mission), 424 Oakland Bank Bldg., Oakland.
 Lessee—Rosentberg Bros., 3rd & Ban-croft, Oakland.
 Plans by Eng. Dept. of Owner.
 Steel frame and wooden girts and studs, galvanized iron covering, con-crete floor on earth flooring.
Structural Steel—Herrick Iron Works, 15th and Campbell Sts., Oakland.
 Contract awarded on Prop. B. using concrete walls.

Contract Awarded—Sub - Bids Being Taken.

WAREHOUSE Cont. price, \$79,975
OAKLAND, Alameda Co., Cal. West
14th Street Pier.

One-story steel frame warehouse (513
x 100 ft.; Warehouse AA).
Owner—City of Oakland (Port Com-
mission), 424 Oakland Bank Bldg.,
Oakland.

Lessee—Rosenberg Bros., 3rd & Ean-
croft, Oakland.
Plans by Eng. Dept. of Owner.
Contractor—H. J. Christensen, Ray
Bldg., Oakland.

Contract awarded on Prop. E, with
concrete walls.
Steel frame and wooden girts and
studs, galvanized iron covering, con-
crete floor on earth flooring.

Plans To Be Prepared.
STORAGE PLANT Cost, \$12,000

STOCKTON, San Joaquin Co., Hazel-
ton Ave. (adjoining county corpora-
tion yard).

Storage buildings and yards.
Owner—State of California.
Plans by State Department of Pub-
lic Works, Division of Highways,
State Office Bldg., Sacramento.

The State will purchase 2½ acres
from the county supervisors on which
to locate this plant.

To Ask Bids Shortly.

ALTERATIONS Cost, \$—
SOUTH SAN FRANCISCO, San Mateo
Co., Cal. Mills Field Municipal
Airport.

Alter Hangar No. 1, including pro-
visions for a ticket office and pilots
restroom; construct firewalls between
Hangars Nos. 2, 3 and 4, and erect gar-
ages for fire equipment.
Owner—City and County of San Fran-
cisco.

Plans by Bureau of Engineering,
Board of Public Works, 3rd Floor,
City Hall.

Plans Being Prepared.

WAREHOUSE Cost, \$—
SAN FRANCISCO, Brannan Street.

One-story concrete warehouse (steel
sash, galvanized iron).
Owner—Vermont Marble Co. 244 Bran-
nan Street.

Architect—Lewis P. Hobart, Crocker
Bldg.

Contract Awarded.

WAREHOUSE Cost, \$—
SANTA CLARA, Santa Clara Co., Cal.
One-story corrugated iron warehouse
with concrete foundations.

Owner—Santa Clara Walnut Growers'
Assn., Santa Clara.
Plans by W. D. Lotz, 1040 Benton, San
Jose.

Contractor—R. C. Summers, 17 N 1st
St., San Jose.

Construction Postponed Indefinitely.

PLANT Cost, \$1,006,000
SAN FRANCISCO, North Beach Dis-
trict.

Oil storage and distribution plant.
Owner—General Petroleum Corp., of
Calif., 310 Sansome Street, San
Francisco.
Engineers—Eng. Dept. of Owner.

Plans To Be Prepared.

DISTRIBUTING PLANT Cost, \$5 E
OAKLAND, Alameda Co., Cal. 4635 E
12th Street.

Oil storage and distributing plant.
Owner—Quaker State Oil Refining Co.,
1240 17th St., San Francisco (J. E.
McCormick, in charge), 654 E 60th
St., Los Angeles.

Private plans.

RICHMOND, Contra Costa Co., Cal.
—The Berkeley Water Front Com-
pany, has acquired approximately
seventy acres on the inner harbor from
the Parr Terminal Company.

The deal has a bearing on the ac-
tivities of the water front corpora-

tion in Richmond, activities which
call for a development program along
the bay shore toward the south.

Acquisition of the new land gives
the company access to the joint tracks
of the Southern Pacific and the Santa
Fe. It also gives them a channel
past the Ford plant to the main chan-
nel of the Richmond inner harbor.

Purchase of the property completes
the program of buying land in this
vicinity and permits the Berkeley
Water Front Company to proceed
with its development program, details
of which are not fully known.

Contract Awarded.
WAREHOUSE Cost, \$29,000

SAN FRANCISCO, Phelps St., Ean-
croft and Carroll Aves.

One-story and basement class C con-
crete warehouse.
Owner—San Francisco Packing Co.,
Phelps and Williams Sts.

Plans by M. E. Friddle, 20 Sansome St.
Contractor—Cahill Eros, 206 Sansome.

Sub-Contracts Awarded.

SUPERSTRUCTURE

Cont. Price, \$25,789
OAKLAND, Alameda Co., Cal. Foot
of Webster Street.

Superstructure for Inland Waterways
Terminal (Exclusive of structural
steel).

Owner—City of Oakland (Port Com-
mission), 424 Oakland Bank Bldg.,
Oakland.

Plans by Eng. Dept. of Owner.
Contractor—R. W. Littlefield, 377 17th
St., Oakland.

Will be sheet-iron construction with
10-year guaranteed roof; 97x250 feet,
with 20-ft. side hall clearance.

Miscellaneous Iron Work and Steel—
C. Fraender, 335 8th St.,
Plumbing—Frank Gottstein, 225 8th
Street.

Painting—M. Williams & Sons, 3100
63rd Ave., Oakland.

Sheet Metal, Corrugated Iron—Ed-
gar Anderson, 3103 San Pablo
Ave., Oakland.

Roofing—General Roofing Co., 3953
Beach St., Oakland.

Millwork—Oakland Planing Mill, Inc.,
2nd and Washington Sts., Oakland

Sub Contracts Awarded

SHED, ETC. Cost approx. \$50,000
RENO, Nevada, Lake Street.

Freight shed, 265x16-ft., with loading
platform, 380x16-feet, with steel
"umbrella roof," office bldg., 72x
42-feet.

Owner—Southern Pacific R. Co., 65
Market St., San Francisco.

Plans by Eng. Dept. of Owner.
Contractor—Ralph McLeran Company,
Hearst Bldg., San Francisco.

Rein. Steel—Gunn Carle & Co., 444
Market Street, San Francisco.

Mis. Iron—Fair Bldg. Co., 617 Bryant,
San Francisco.

Structural Steel—Western Iron Wks.
Lumber—James L. Hall, Mills Bldg.,
San Francisco.

Rough & Finish Hardware—Palace
Hardware Co., 551 Market St.,
San Francisco.

Transite—Wayland Co., Ltd., 563 2nd
St., San Francisco.

Steel Rolling Doors—D. A. Pancoast
Co., 26 O'Farrell St., San Fran-
cisco.

Plumbing—Savage & Son, Reno, Nev.
Electric—Shearer Electric Co., Reno,
Nevada.

Magnasite—Malott & Petersen, 3221
20th St., San Francisco.

Glass—W. P. Fuller Co., 301 Mission
St., San Francisco.

Shades—D. N. & E. Walter Co., 562
Mission St., San Francisco.

Painting—Raphael Co., 270 Tehama
St., San Francisco.

Toilet Partitions—Dwan & Co., 534
6th St., San Francisco.

OAKLAND, Cal.—Plant of Oakland
Laundry Co., 730 29th St., was de-
stroyed by fire on May 9. The loss
including contents stored and adjoin-
ing structures, is estimated at \$125,000.

Plans Being Completed

PACKING PLANT Cost, \$20,000
SAN JOAQUIN Co., Calif.

One-story and basement packing
plant (wooden frame, concrete
basement). (Capacity 1200 tons)
Owner—San Joaquin Valley Walnut
Growers Assn., Linden, Calif.
Plans by John Cavanaugh, 219 N. Sut-
ter St., Stockton.

Bids will be taken by owner in one
week for general contract and segre-
gated bid basis.

W. H. Dozier, Rt. 4, Box 265, Lodi is
chairman of the building commit-
tee.

Contract Awarded.

WAREHOUSE Cost, \$9000
SAN FRANCISCO, N Mission Street
W 9th St.

One-story and basement class C ware-
house.

Owner—D. Scanlon, 791 Valencia St.
Engineer—G. F. Gill, 404 Rialto Bldg.
Contractor—Sullivan & Sullivan, 71
Exchange Elock Bldg.

FLATS

Sub-Contracts Awarded.

FLATS Cost, \$15,000
SACRAMENTO, Sacramento Co., Cal.
1001 Robertson Way.

Two-story and basement frame and
stucco flats (2 flats).

Owner—Mrs. Jessie Woods King, 1205
17th St., Sacramento.

Architect—Wm. E. Coffman, Forum
Bldg., Sacramento.

Contractor—Guth & Fox, 1516 27th St.
Sacramento.

Excavation—J. J. Rennetti, 2931 C St.
Sacramento.

Concrete Work—Frank Harkin, 1616
7th St., Sacramento.

Brick Work—Harry Jensen, 3733 Mil-
ler Way, Sacramento.

Plumbing—Henry Flumer, 2424 27th St.
Sacramento.

Painting—R. L. Leamon, 1209 Santa
Barbara Way, Sacramento.

Plastering—V. Norcia, 3120 5th Ave.
Sacramento.

Electric Wiring—J. W. Thomas, 3216
L St., Sacramento.

Electric Fixtures—J. W. Thomas, 3216
L St., Sacramento.

Hardware—Murray and Low, 721 J St.
Sacramento.

Reinforcing Steel—Geo. Smith, 1309 J
St., Sacramento.

Rock and Gravel—Mucke Sand and
Gravel Co., Mayhew Station.

Ornamental Iron—Alling Iron Works,
5th and Y Sts., Sacramento.

Cement—Cowell Lime & Cement Co.,
1091 St., Sacramento.

Sheet Metal—Work Gibson Sheet Met-
al Works, 2905 I St., Sacramento.

Marble and Tile Work—Fischer Tile &
Marble Co., 1209 J St., Sacramento.

Lumber and Millwork—Superior Lum-
ber Co., 19th and S Sts., Sacra-
mento.

Sub-Bids Being Taken.

FLATS Cost, \$—
SAN FRANCISCO, W Divisadero St.
S Waller St.

Two-story and basement frame and
stucco flats (two 6-room flats).

Owner—D. E. Hayden, 103 Sanchez St.
Architect—F. W. Dakin, 625 Market
Street.

Bldg. Supt.—Fred J. Masher, 22 Brady
Street.

Fred J. Masher is taking sub-bids
for the owner and acting as building
superintendent. Plans obtainable from
office of Daniel Hayes, 22 Brady St.

umental Iron Contract Awarded.
 AT S Cont. price, \$12,100
 N FRANCISCO. Lombard St. near
 Steiner Street.
 20-story and basement frame and
 stucco flats (2 7-room flats with
 2 baths).
 er—O. Landucci.
 architect—Charles Strothoff, 2274 15th
 Street.
 ractor—Severin Steinhauer, 755 27th
 Avenue.
 namental Iron—Patterson & Koster
 Iron Works, 280 13th Street.
 rchitect will take bids in 90 days
 marble work, fixtures, wall paint-
 ing, refrigeration, hardware and water
 heaters.
 ills and composition roofing, gas
 fitting system, canvass walls and
 slings, Frigidaire, etc.

BARAGES AND SERVICE STATIONS

Contracts Awarded.
 SERVICE STATION Cost, \$10,000
 REDWOOD CITY, San Mateo Co., Cal.
 Gas super service station (the roof).
 ner—Union Oil Co., Mills Building,
 San Francisco.
 ns by Eng. Dept. of Owner.
 ractor—W. C. Keating, 4209
 Mountain Blvd., Oakland.
 ractor—Harry Gee, San Carlos.
 n—C. L. Frost, Palo Alto.
 s at Metal—Superior Metal Products
 Co., 4400 Market St., Oakland.
 rwork—Emeryville Planning Mill,
 Emeryville.
 rting—Vincent Fatta, 2247 Fil-
 bert St., Oakland.
 rwork—P. Buttmann, Redwood
 City.
 ss and Glazing—W. P. Fuller Co.,
 259 10th St., Oakland.
 rying—Robt. E. Bruce, Redwood
 City.
 rcting Work—Coast Elec. Co., Red-
 wood City.

REGULAR WORK AND SUPPLIES

AN FRANCISCO.—Malott & Pet-
 em, 3221 20th St., at \$1,900 awarded
 contract by Constructing Quartermas-
 ter Fort Mason, for furnishing and
 laying manganese floors in Field Mess
 Dining No. 29, at the Letterman
 General Hospital.
 AN DIEGO, Cal.—M. H. Golden, 404
 Cornia Bank Building, San Diego, a-
 rded contract by Eleventh Naval
 District at \$264,632 for a mess hall at
 the Naval Operating Base (Training
 Station), San Diego; specifications No.
 6. Award based on main bid of
 \$292, less \$1600 for the omission of
 temperature regulating and time clock
 control system. The building will be
 a regular shaped structure, extreme
 dimensions 530x220 feet, and will pro-
 vide mess rooms, sculleries, lounges,
 baggage rooms and cold storage rooms;
 reinforced concrete piling, reinforced
 concrete frame, hollow tile walls.
 AN FRANCISCO—Until May 20, 10
 A. M., under Circular No. 928-31-287-
 7, bids will be received by Quar-
 termaster Supply Officer, S. F. General
 Depot, Fort Mason, for drainage ser-
 vices. Specifications and further in-
 formation obtainable from above.
 SACRAMENTO, Cal.—Until May 20,
 10 A. M., under Circular Proposal No.
 316, Specifications No. 3219, bids
 will be received by U. S. Engineer
 Office, California Fruit Bldg., for dry-
 ing, painting and repairing U. S.
 Cargo "E". Specifications and fur-
 ther information obtainable from
 above.

Sub-Bids Being Taken.
 ADDITION Cont. price, \$51,886
 SAN FRANCISCO. Letterman Gen-
 eral Hospital.
 Three-story reinforced concrete ad-
 dition to Ward No. F-1 and two-
 story reinforced concrete ward
 building (formerly Wards 10 and
 11).
 Owner—United States Government.
 Architect—Constructing Quartermas-
 ter Fort Mason.
 Contractor—Frank J. Reilly, 6350 Ful-
 ton Street.
 Rubber floors, terrazzo floors, tile
 wainscoting, radio system, electric
 fixtures, nurses' call system; all mod-
 ern hardware, sterilization system,
 electric passenger elevator, modern
 hospital plumbing and considerable
 marble work.
 As previously reported, plumbing
 awarded to Skelly & Kohler, 1344 8th
 Ave., at \$31,072; electrical work to G.
 H. Armstrong, 2330 Howard St., at \$6-
 298; heating to George Rehn, 1919 Mis-
 sion St., at \$2,676 (alterations to Ward
 G-1 and addition thereto, Adrian Ram-
 azzotti, 1473 Vallejo St. (Ward F-1),
 at \$2,300.

SACRAMENTO, Cal.—Until May 20,
 3 P. M., under Circular Proposal No.
 31-316, Specifications No. 3294, bids
 will be received by U. S. Engineer
 Office, California Fruit Bldg., Sacra-
 mento, for removing approximately 2-
 500 cubic yards of material from Mor-
 mon Channel. Specifications obtain-
 able from above office.

SAN FRANCISCO.—Until May 18, 10
 A. M., under Circular No. 928-31-293,
 bids will be received by Quartermas-
 ter Supply Officer, General Depot, Ft.
 Mason, for repairing and refinishing
 miscellaneous furniture and office
 equipment. Specifications obtainable
 from above.

SUNNYVALE, Santa Clara Co., Cal.
 —Until May 20, 11 A. M. (time ex-
 tended from May 15), under Spec. No.
 6476, bids will be received by Public
 Works Officer, 12th Naval District, 100
 Harrison St., San Francisco, for test
 piles and borings at the Naval Air
 Base, Sunnyvale. Plans and further
 information obtainable from the above
 office.

To Ask Bids Shortly.
 REPAIRS Cont. \$—
 SAN FRANCISCO. Letterman Hos-
 pital.

Kitchen and dining room repairs.
 Tile and wainscoting in main kitchen
 and dining room.
 Owner—United States Government.
 Plans by Constructing Quartermas-
 ter, Fort Mason, Calif.

To Ask Bids Shortly.
 STOREHOUSE Cont. \$—
 SAN FRANCISCO. Letterman Hos-
 pital.
 Reroof Quartermaster Storehouse No.
 26 (strip shingles).
 Owner—United States Government.
 Plans by Constructing Quartermas-
 ter, Fort Mason, Calif.

To Ask Bids Shortly.
 PAINTING Cont. \$—
 SAN FRANCISCO. Letterman Hos-
 pital.
 Paint exterior of all hospital buildings
 at Letterman.
 Owner—United States Government.
 Plans by Constructing Quartermas-
 ter, Fort Mason, Calif.

SAN FRANCISCO.—Bids will be
 asked shortly by Constructing Quar-
 termaster, Fort Mason, for repairs to
 Torpedo Dock at Fort Winfield Scott.

SAN FRANCISCO—Until July 3, 3
 P. M., bids will be received by U. S.
 Engineer Office, Customhouse, for rock

removal in San Francisco Bay. Spec-
 ifications obtainable from above office.

MARCH FIELD, Riverside Co., Cal.
 —Until June 9, bids will be received
 by Constructing Quartermaster, March
 Field, Riverside, to construct:
 One Incinerator, bids to be opened
 10:30 A. M.

Construct and install gas-water-
 sewerage and electrical connections for
 61 buildings, bids to be opened at
 11 A. M.

Construct roads, walks, grading and
 curb, bids to be opened 11:30 A. M.
 Specifications obtainable from the
 Constructing Quartermaster at March
 Field.

SAN FRANCISCO—Until May 21, 11
 A. M., bids will be received by Con-
 structing Quartermaster, Fort Mason,
 for repairs to roads at Fort Funston.
 Specifications obtainable from above.

SACRAMENTO, Cal.—Bids will be
 asked shortly by U. S. Engineer Of-
 fice, California Fruit Bldg., to con-
 struct concrete weir with apron and
 abutment walls near Moulton Laundry
 on the Sacramento River.

CAN FRANCISCO—Until May 19,
 under Circular No. 27, bids will be
 received by Contracting Officer, Medi-
 cal Section, S. F. General Depot, Pres-
 idio, for 1 electric dishwasher, 20
 cook's tables, vegetable cabinet, steam
 steamer and 1 coffee urn. Specifi-
 cations obtainable from above.

PANAMA CANAL ZONE.—Until
 May 25, under Schedule No. 2652, bids
 will be received by Purchasing Of-
 ficer, Panama Canal, Washington, D.C.,
 to furnish 1 motor-driven electric mono-
 rail hoist, 1 3-ton chain hoist, 3 1-ton
 do, 10 single-faced steel racks, 100 ver-
 tical dividers and 50 horizontal adjust-
 able shelves, 10 steel cases, 10,000 ft.
 steel wire, 1 motor-driven air com-
 pressor, 3 recording ammeters, 2 re-
 cording voltmeters, 1 electric oven
 heating equipment. Specifications ob-
 tainable from Assistant Purchasing
 Agent, Fort Mason, San Francisco.

SAN FRANCISCO.—Kamlan Fence
 Co., 351 Bryant St., at \$1,910 awarded
 contract by Constructing Quartermas-
 ter, Fort Mason, for repairs to wire
 fencing at Fort Funston.

SAN FRANCISCO.—Until May 29,
 under Circular No. 6, bids will be re-
 ceived by the Signal Officer, Ninth
 Corps Area, Presidio, for installation
 of one 200-line telephone switchboard
 and main frame, re-arrangement of
 central office equipment, building of
 duct lines and installation of tele-
 phone cable, poles and terminals at
 Ft. Douglas, Utah. Specifications ob-
 tainable from above.

Bids To Be Asked Shortly.
 TEMPORARY OFFICES Cont. \$—
 SUNNYVALE, Santa Clara Co., Cal.
 Driftable Air Base.
 One-story frame temporary offices
 (Specification No. 6492).

Owner—United States Government.
 Plans by Public Works Officer, 12th
 Naval District, 100 Harrison St.,
 San Francisco.
 Project will involve the erection of
 a one-story frame building on concrete
 piers with drop siding, prepared roof-
 ing, wall board lining and plumbing,
 heating and electrical system. Bids
 for construction will be asked in the
 immediate future.

Plans Being Completed—Bids To Be
 Asked Shortly.
 STOREHOUSE ETC. Cont. \$—
 MONTREY, Monterey Co., Cal. Pres-
 idio of Monterey.
 Frame storehouse, 60x160-ft., two lav-
 atory buildings and mess hall.
 Owner—United States Government.

Plans by Quartermaster, Presidio of Monterey.

Bids for this work will be asked shortly. Firms desiring to submit bids may file applications now with the Quartermaster, such applications to be accompanied by a deposit of \$5, returnable. J. L. Topham, Jr., is lieutenant colonel of the Quartermaster Corps at the Presidio.

Plans Being Figured—Bids Close May 25, 2 P. M.
REPAIRS, ETC. Cost, \$—
SAN FRANCISCO. U. S. Custom-house.

Exterior and interior repairs and painting for U. S. Customhouse. Owner—United States Government. Plans by Wm. Arthur Newman, 402 Post Office Bldg., San Francisco.

To Ask Bids Shortly.
REPAIRS Cost, \$—
SAN FRANCISCO. Letterman Hospital.

Enclose inner main corridor with glazed sashes.
Owner—United States Government. Plans by Constructing Quartermaster, Fort Mason, Calif.
There will be considerable millwork and glass work involved.

To Ask Bids Shortly.
WATER SOFTENER Cost, \$—
HONOLULU, T. H.
Water softener plant (capacity of 75,000 gallons).

Owner—United States Government. Plans by Constructing Quartermaster, Fort Mason, Calif.
Bids will be received by Constructing Quartermaster, Fort Mason.

HALLS AND SOCIETY BUILDINGS

Architect Selected.
CLUB BLDG. Cost, \$600,000
SAN FRANCISCO. NE Taylor and Post Streets.
Class A club building.
Owner—Bohemian Club.
Architect—Lewis P. Hobart, Crocker Bldg.

Plans To Be Prepared.
MEMORIAL BLDG. Cost, \$—
SAN LEANDRO, Alameda Co., Cal.
Davis and Park Streets.
Veterans' Memorial Building.
Owner—County of Alameda, George Gross, County Clerk, Oakland.
Architect—Henry H. Meyers, Kohl Bldg., San Francisco.

Contract Awarded.
LODGE BLDG. Cost, \$30,000
MOUNTAIN VIEW, Santa Clara Co., Calif.

Two-story steel frame and reinforced concrete lodge building (tile roof; auditorium to seat 600; lounging rooms; electric heat).
Owner—Leon Roberts Post, American Legion, % Jas. M. Graham, Jr. Architect—A. A. Cantin, 544 Market St., San Francisco.
Contractor—Carl Lindholm and Sons, Chiquita Ave., Mountain View.
Construction to begin at once.

Prospective Bidders.
MEMORIAL BLDG. Cost, \$15,000
AUBURN, Placer Co., Cal.
One-story and basement frame and stucco Veterans' Memorial Bldg.
Owner—County of Placer.
Architect—W. E. Coffman, Forum Bldg., Sacramento.

Following contractors have secured plans:
J. M. Stoffels, Roseville.
Guth & Fox, 1528 27th St., Sacramento.
Geo. W. Kopp, 1514 15th St., Sacramento.
M. R. Petersen, 1116 O St., Sacramento.

Jas. P. Morton, Placerville.
C. P. McLeod, Auburn.
Gene Kenyon, Sacramento.
Chas. Unger, 4532 Tt St., Sacramento.
Geo. Hudnutt, 1915 S St., Sacramento.
Wm. Lardner, Auburn.
Wm. C. Keating, Forum Bldg., Sacramento.
Bids are to be opened May 12.

Bids Rejected.
MEMORIAL BLDG. Cost, \$15,000
AUBURN, Placer Co., Cal.
One-story and basement frame and stucco Veterans' Memorial Bldg.
Owner—County of Placer.
Architect—W. E. Coffman, Forum Bldg., Sacramento.
Following is a complete list of bids received:

Alt. No. 1. Add for changing interior lath to celotex.
Alt. No. 2. Add for furnishing Gladding, McBean roof tile.
Alt. No. 3. Ded. for omitting sewer connections in certain portions of building.
Alt. No. 4. Ded. for omitting hardwood floors in auditorium and linoleum in club room.

Alt. No. 5. Ded. for omitting all plaster in banquet room except on interior partition walls.
Alt. No. 6. Ded. for omitting built in seats and benches on auditorium platform.
J. P. Morton, Placerville.....\$15,500
(1) \$595; (2) \$38; (3) \$177; (4) \$200; (5) \$110; (6) \$131.

J. M. Stoffels, Roseville.....\$16,000
(1) \$325; (2) \$98; (3) \$177; (4) \$244; (5) \$160; (6) \$126.
Chas. Unger, Sacramento.....\$15,900
(1) \$372; (2) \$38; (3) \$177, (4) \$264; (5) \$150; (6) \$418.
M. R. Petersen, Sacramento.....\$16,154
(1) \$42; (2) \$147; (3) \$116; (4) \$200; (5) \$137; (6) \$452.

Gene Kenyon, Sacramento.....\$16,203
(1) \$650; (2) \$100; (3) \$175; (4) \$200; (5) \$150; (6) \$250.
Guth & Fox, Sacramento.....\$16,246
(1) \$362; (2) \$73; (3) \$177; (4) \$209; (5) \$160; (6) \$190.
George Kopp, Sacramento.....\$16,736
(1) \$621; (2) \$70; (3) \$172; (4) \$100; (5) \$171; (6) \$126.

C. P. McLeod, Auburn.....\$17,829
(1) \$512; (2) \$38; (3) \$177; (4) \$280; (5) \$145; (6) \$337.
W. C. Keating, Sacramento.....\$18,145
(1) \$422; (2) \$73; (3) \$140; (4) \$250; (5) \$100; (6) \$265.
George Hudnutt, Sacramento.....\$18,888
(1) \$427; (2) \$75; (3) \$130; (4) \$265; (5) \$120; (6) \$180.

All bids were rejected. New bids will be taken shortly.

Preparing Preliminary Plans.
MEMORIAL BLDG. Cost, \$60,000
GRASS VALLEY, Nevada Co., Calif.
S Auburn St.
One- and two-story reinforced conc. veteran's memorial building.

Owner—County of Nevada.
Architect—Wm. E. Coffman and M. W. Sahberg, Forum Bldg., Sacramento.

Plans Being Figured—Bids Close May 27th, 2 P. M.
FURNISHINGS Cost, \$—
EUREKA, Humboldt Co., Cal.
Furnish and deliver furnishings for veteran's memorial building.
Owner—County of Humboldt, Fred M. Kay, county clerk, Eureka.
Architect—Newton Ackerman, 102 W. 4th St., Eureka.
Certified check 10% required with bid. Specifications on file in office of clerk.

Sub-Bids Being Taken.
LODGE BLDG. Cost, \$30,000
MOUNTAIN VIEW, Santa Clara Co., Calif.

Two-story steel frame and reinforced concrete lodge building (tile roof; auditorium to seat 600; lounging rooms; electric heat).
Owner—Leon Roberts Post, American Legion, % Jas. M. Graham, Jr. Architect—A. A. Cantin, 544 Market St., San Francisco.
Contractor—Carl Lindholm and Sons, Chiquita Ave., Mountain View.
Construction to begin at once.

HOSPITALS

Plans Being Figured—Bids Close May 9, 2 P. M.
COMMISSARY BLDG. Cost, \$—
ELDRIDGE, Sonoma Co., Cal. State Hospital Grounds.
One-story brick commissary building.
Owner—State of California.
Plans by State Department of Public Works, Division of Architecture, George B. McDougall, State Architect, Public Works Bldg., Sacramento.

This building will be one-story with concrete first floor and foundation, brick walls, steel and wood roof construction and slat roof. Floor is approximately 6500 sq. ft.

Plans Being Figured—Bids Close June Plans Completed.
PREVENTORIUM Cost, \$100,000
REDWOOD CITY, San Mateo Co., Cal.
Three frame and stucco Preventorium building and tile roofs.

Owner—City and County of San Francisco.
Architect—Henry H. Meyers, Kohl Bldg., San Francisco.
Bids will be advertised for shortly.

Plastering Contract Awarded.
MONASTERY Cost, \$100,000
CARMEL, Monterey Co., Cal.
Two-story reinforced concrete monastery.

Owner—Carmelite Monastery, San Carlos.
Architect—Maginnes & Walsh, State Bldg., Boston, Mass.
Contractor—Thomas M. Jones, 243 I Dorado St., Monterey.
Lathing and Plastering—James Smith, 271 Minna St., San Francisco.

As previously reported, Health awarded to Barton Oil-O-Matic, Monterey and terra cotta to Gladhill McBean Co., 660 Market St., S. F.

Sub-Bids Being Taken.
GARAGES, ETC. Cost, price, \$56,400
AGNEW, Santa Clara Co., Cal. State Hospital grounds.
Two two-story concrete employed quarters and 1-story concrete garages.
Owner—State of California.

Plans by State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento.
Contractor—A. Nelson, 242 Ocean Av. San Francisco.
Sub-bids are wanted on all portions of the work.

Employees' quarters will consist of two buildings and separate garage having concrete exterior walls, wood partitions, wood floor and roof construction and tile roof. Garages will be one-story with concrete walls and floor, wood roof construction and tile and composition roof. Employees' quarters will have floor area of approximately 10,000 sq. ft. each and the garages a floor area of approximately 4,100 sq. ft.

As previously reported heating and plumbing awarded to Hatley & Hite, 1719 14th St., Sacramento; electric work to Roy M. Butcher, 1029 Sheppardwood, San Jose.

LOS ANGELES, Cal.—Angelus Hospital, 1225 Trinity St., announces plans under way to use \$600,000 to use for new building construction on other purposes. The building program

emplates the erection of a new
 arch building to cost \$102,000; al-
 a new nurses' home to cost \$150,-
 0

is Opened.

STATION, San Bernardino Co., Cal.
 State Hospital.
 Green frame cottages.
 Owner—State of California.

Architect—George B. McDougall, Pub-
 lic Works Bldg., Sacramento.
 It No. 1 ded for omitting one
 euse.

Walsh, San Bernardino.....\$21,392
 (I) \$1528.

Capbell Constr. Co., Ontario.....\$23,455
 (I) \$1500.

Pettifer, Huntington Park.....\$24,735
 (I) \$1787.

T. Hyatt, Alhambra.....\$24,898
 (I) \$1777.

Strona, San Bernardino.....\$25,000
 (I) \$1794.

omer Mfg. Co., Riverside.....\$25,609
 (I) \$1835.

Mayson, Long Beach.....\$28,000
 (I) \$1709.

eral Constr. Co., San Ber-
 nardino.....\$28,204
 (I) \$1842.

lyph Schmid, Los Angeles.....\$29,925
 (I) \$2189.

Green, Los Angeles.....\$32,000
 (I) \$2350.

R. Landon, Los Angeles.....\$39,987
 (I) \$2400.

Electrical Work
 Worth Elec. Co., Inglewood.....\$398
 (I) \$64.

W. Smith, Long Beach.....\$950
 (I) \$65.

Kel Wetzel Co.....\$953
 (I) \$67.

re Elec. Co., Alhambra.....\$1086
 (I) \$60.

t Elec. Co., Santa Monica.....\$1200
 (I) \$85.

R. L. Jones, Los Angeles.....\$1397
 (I) \$89.

Plumbing and Heating
 Mger & Munger, Pasadena.....\$7826
 (I) \$200.

son & Reeves, Glendale.....\$7853
 (I) \$405.

F. Jones, Pasadena.....\$7870
 (I) \$525.

T. Haverty Co., Los Angeles.....\$7968
 (I) \$373.

L. Dinitz, Pasadena.....\$8027
 (I) \$255.

W. Smith, Long Beach.....\$8200
 (I) \$500.

Himan Bros., Los Angeles.....\$8240
 (I) \$355.

okom Co., Los Angeles.....\$9110
 (I) \$488.

H. Robinson, Long Beach.....\$9487
 re Bros., Los Angeles.....\$9983
 (I) \$475.

ds held under advisement.

Contracts Awarded.

ITICONS—Cont. price, \$269,837
 S. FRANCISCO, Potrero Ave. bet.
 9th and 23rd Sts.

A additions on roof of San
 rancisco Hospital (4 wards; brick
 walls, tile roofing).

City and County of San Fran-
 cisco.

itect—Alfred I. Coffey and Martin
 I. Rist, associated, Phelan Bldg.
 ractor—Barrett & Hilt, 918 Har-
 son St., San Francisco.

etal—Gulfooy Cornice Works,
 224 Howard St., \$9,933.

ng—Alta Roofing Co., 976 Indiana
 street.

Contracts Awarded.

ITION—\$115,000 appropriated
 S. FRANCISCO, Letterman Gen-
 eral Hospital.

Two-story reinforced concrete ad-
 dition to Ward No. F-1 and two-
 story reinforced concrete ward
 building (formerly Wards 10 and
 1).

Owner—United States Government.
 Architect—Constructing Quartermas-
 ter, Fort Mason.

Rubber floors, terrazzo floors, tile
 wainscoting, radio system, electric
 fixtures, nurses' call system; all mod-
 ern hardware, sterilization system;
 electric passenger elevator, modern
 hospital plumbing and considerable
 marble work.

General Work
 F. J. Reilly, 6250 Fulton St.....\$81,836

Plumbing
 Skelly & Kohler, 1344 9th Ave.....\$21,072

Electrical Work
 G. H. Armstrong, 2390 Howard
 Street.....\$6,298

Heating
 George Rehn, 1919 Mission St.....\$2,676
 (alterations to Ward G-1 and addition
 thereto).

Adrian Ramazzotti, 1473 Vallejo
 St. (Ward F-1).....\$2,300

HOTELS

LAS VEGAS, Nevada—Architect C.
 E. Norenberg, Los Angeles Royal
 Bldg., Los Angeles, has completed
 preliminary plans for the erection of
 a seven-story and basement, rein-
 forced concrete store and hotel build-
 ing at Las Vegas, Nevada, for the Vir-
 ginia Hotel. The building will contain
 100 rooms, each with bath; composi-
 tion roofing, steam heat, elevators, re-
 frigeration, steel sash, plate glass, etc.
 Cost is estimated at \$225,000.

ICE AND COLD STORAGE PLANTS

Construction Under Way.
 STORAGE ROOMS Cost, \$2500
 WATSONVILLE, Santa Cruz Co., Cal.
 Construct two new cold storage rooms
 Owner—Espinola's, Watsonville.
 Plans by Builder.
 Contractor—L. Mundet & Son, Inc.,
 440 Brannan St., San Francisco.

Plans Being Prepared.
 ICE PLANT Cost, \$—
 REDWOOD CITY, San Mateo Co., Cal.
 Brewster Ave. and Perry St. (12x8
 100-ft.)
 One-story concrete ice plant.
 Owner—Union Ice Co., 354 Pine Street,
 San Francisco.

Plans by Eng. Dept. of Owner.
 Contractor—W. W. Williamson, 3 2 0
 Market St., San Francisco.

POWER PLANTS

SAN DIEGO, Cal.—City council con-
 sidering proposal to finance a munic-
 ipally-owned power plant. The esti-
 mated cost is \$260,000, including \$109,-
 000 for a complete underground sys-
 tem to feed points of the lighting dis-
 trict. Bonds may be issued.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Preparing Working Drawings.
 POLICE STATION Cost, \$60,000
 SAN FRANCISCO, Golden Gate Park.
 One-story reinforced concrete police
 station.
 Owner—City and County of San Fran-
 cisco.

Architect—Weeks and Day, Financial
 Center Bldg.
 Bids will be taken in one or two
 weeks.

Plans Being Completed.
 FIRE HOUSE Cost, \$18,000
 OROVILLE, Butte Co., Cal.
 One-story brick fire house.
 Owner—City of Oroville.
 Architect—Chester Cole, First National
 Bank Bldg., Chico.
 Bids will be taken in two or three
 weeks.

Plans Being Figured—Bids Close June
 1, 11 a. m.
 EQUIPMENT FOR LIBRARY

Cost, \$—
 FAIRFIELD, Sonoma County, Cal.
 Equipment for County Library.
 Owner—County of Solano.
 Architect—Not given.

Specifications for this equipment
 obtainable from the county clerk at
 Fairfield.

Contract Awarded.
 PAINTING, ETC. Cost, \$34,85
 WILLOWS, Glenn Co., Cal.
 Painting and repairing public library.
 Owner—Town of Willows, L. B. Eu-
 bank, town clerk.
 Architect—Not given.
 Contractor—Geo. A. McDonnell, Wil-
 lows.

C. F. Holmes, Willows, at \$342 and
 Jacob Hassig, Willows, at \$370, only
 other bidders.

LOS ANGELES, Cal.—J. W. Char-
 ville, Glendale city manager, has
 tentatively recommended the pur-
 chase of the Glendale junior college
 grounds for a civic center site. The
 building program contemplates the
 erection of the following buildings on
 the site by the city: city hall to cost
 \$600,000; jury to cost \$200,000; and
 a hall of justice to cost \$225,000. Other
 buildings proposed are a health cen-
 ter, to be financed by the county, and
 the new federal building.

Bonds Voted—Plans Being Prepared.
 CITY HALL Cost, \$15,000
 LOS BANOS, Merced Co., Cal. J St.
 between 5th and 6th Sts.

Two-story brick and reinforced con-
 crete combination fire house and
 city hall.

Owner—City of Los Banos.
 Plans by W. E. Bedesen (engineer),
 Shafter Bldg., Merced.

Sub-Contracts Awarded.
 JAIL Cost, \$110,000
 SALINAS, Monterey Co., Cal.

Two-story reinforced concrete jail.
 Owner—County of Monterey.
 Architect—Reed and Corlett, Oakland
 Bank of Savings Bldg., Oakland.

Contractor—W. C. Keating, 4209 Mt.
 Blvd., Oakland.

Structural Steel—C. Frauneder 335 8th
 St., Oakland.

Ferrous Metal Treads—Gunn, Carle &
 Co., 444 Market St., San Francisco.

Roofing—C. L. Frost, 165 Webster St.,
 Monterey.

Plastering—Ed. Anstey, Salinas.

Cast Stone—Ed. Anstey, Salinas.

Tile and Marble—Art Tile & Mantel
 Co., 221 Oak St., San Francisco.

Painting—Patterson Bros., 494 36th St.
 Oakland.

Miscellaneous Iron—Farmers' Mercan-
 tile Co., Main and W. Alisal Sts.,
 Salinas.

Finish Hardware—E. M. Hundley, 662
 Mission St., San Francisco.

Laboratory Tests—Abbott A. Hanks,
 Inc., 624 Sacramento St., S. F.

Prison Sash—Rolph Mills & Co., 525
 Market St., San Francisco.

Toilet Partitions—Dwan & Co., 534 6th
 St., San Francisco.

Linoleum—W. & J. Sloane Co., 224
 Sutter St., San Francisco.

Window Shades—W. F. McCrea Co.,
 44 E 12th St., Oakland.

Brick and Hollow Tile—W. S. Dickey
 Clay Mfg. Co., 1st and Jackson,
 Oakland.

Plans Being Figured—Bids Close June
 2, 2 P. M.

PLUMBING, HEATING AND VEN-
 TILATING EQUIPMENT FOR
 LEGION BLDG. Cost, \$2,500,000
 SAN FRANCISCO, Civic Center.

Four-story and basement concrete
 class A Legion Building.

OPERA HOUSE Cost, \$2,500,000
 Six-story class A opera house (seat-

ing capacity, 4000; standing room, 500.
Owner—City and County of San Francisco (S. F. War Memorial).
Architect—G. A. Lansburgh, 140 Montgomery St., and Arthur Brown, 251 Kearny Street.
Mgrs. of Const.—Lindgren & Swinerton, Inc., 225 Bush Street.
 Certified check 10% payable to the Trustees of War Memorial of San Francisco required with bid. Plans obtainable at 451 Montgomery St. on deposit of \$10, returnable.

NAPA, Napa Co., Cal.—County supervisors propose to provide funds in the next budget, to be available July 1, to finance remodeling and improving the exterior of the county courthouse.

MONTEREY, Monterey Co., Calif.—City votes bonds of \$11,000 to finance construction of a branch public library in the New Monterey District.

OAKLAND, Cal.—City defeats proposal to issue bonds of \$375,000 to finance erection of a municipal Exposition Building.

RESIDENCES

Plans Being Completed.
RESIDENCE Cost, \$15,000
OAKLAND, Alameda Co., Cal. Claremont Plines.
Two-story and basement frame and stucco residence, English style (8 rooms, 3 baths; slate roof; steam heat).
Owner—Withheld.
Architect—Williams & Wastell, 374 17th St., Oakland.
 Ready for bids in about two weeks.

Sub-Contracts Awarded.
RESIDENCE Cost, \$10,400
OAKLAND, Alameda Co., Calif. Hill Road.
Two-story and basement frame and stucco residence (9 rooms and 2 baths).

Owner—P. W. Ramsden.
Architect—Geo. Ellinger, 1723 Webster St., Oakland.
Contractor—George Swanstrom, 1723 Webster St., Oakland.
Concrete—N. McLeod, 517 Spruce St., Oakland.

Plumbing and Heating—Scott Co., 113 10th St., Oakland.
Electric—Advance Electric Co., 419 19th St., Oakland.

Mill Work—California Mill & Lumber Co., 1829 Webster St., Alameda.
Lumber—Hogan Lumber Co., 2nd and Alice Sts., Oakland.
Roofing—L. Saxley, 4538 Fleming Ave., Oakland.

Sheet Metal—E. W. Anderson, 31st & San Pablo Aves., Oakland.
Painting—J. J. Burdon & Son, 354 Hobart St., Oakland.

Plastering—Chas. H. Burnett, 865 32nd St., Oakland.
Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Steel Sash—Detroit Steel Products Co., 63rd and Doyle Sts., Oakland.
Contract Awarded.
RESIDENCE Cost, \$14,000
SAN FRANCISCO, Rock Ridge Terrace near Portola Drive.

Two-story and basement frame and stucco residence (tile roof; seven rooms; 2 baths; Spanish type).
Owner—Lang Realty Co., 39 Sutter St. Plans by Frank Nelson, 810 Ulloa St. Contractor—Oscar Swanson, % Frank Nelson.

Contract Awarded.
RESIDENCES Cost each, \$12,000
SAN FRANCISCO, Rock Ridge Terrace.

Two-story and basement frame and stucco residences (tile roof; seven rooms, 2 baths; Spanish type).

Owner—Lang Realty Co., 39 Sutter St. Plans by Frank Nelson, 810 Ulloa St. Contractor—Oscar Swanson, % Frank Nelson.

Sub-Contracts Awarded.
RESIDENCE Cost, \$4000
ALBANY, Alameda Co., Cal. 602 Santa Fe Avenue.

One-story and basement frame and stucco residence (6 rooms).
Owner and Builder—T. A. Deadrick, 2323 Liberty Ave., El Cerrito.
Plaster by Owner.

Millwork—H. Mason, 970 16th St.
Sash, Doors, Lumber—San Pablo Lbr. Co., 10th and Ohio Sts., Richmond.
Plastering—A. Winchcole, 622 12th St., Richmond.

Sheet Metal—M. C. Henry, 1183 53rd Street.
Electric Work—El Cerrito Electric Co. Roofing—H. C. Brown Roofing Co., 3267 San Pablo Ave.

Heating—Pacific Gas Appliance Co., 19th and Market Sts., Oakland.
Brick—V. L. Hipkiss, 2206 Prince St., Berkeley.

To Take Bids In One Week.
RESIDENCE Cost, \$25,000
SAN FRANCISCO.

Two-story and basement frame and stucco residence (9 rooms and 4 baths).
Owner—Withheld.
Architect—Charles Strothoff, 2274 15th Street.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
PIEDMONT, Alameda Co., Cal.

Two-story and basement brick veneer frame and stucco residence.
Owner—Gerald B. Trayner, care architect.
Architect—Farr & Ward, 68 Post St., San Francisco.

Contractor—A. Cedarborg, 1455 Excelsior Blvd., Oakland.
Lumber—Sunset Lbr. Co., 400 High St.
Plumbing—D. W. Durant, 492 Lake Park Ave.

Slate Roof—General Roofing Co., 3385 Beach St.
Glass—East Bay Glass Co., 621 6th St.
Millwork—Lannom Bros. Mfg. Co., 5th and Magnolia Sts., Oakland.

Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Construction Postponed Indefinitely.
RESIDENCE Cost, \$15,000
PIEDMONT, Alameda Co., Cal.

Two-story and basement frame and stucco residence (3 rooms and 3 baths).
Owner—Withheld.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

To Take Bids In One Week.
RESIDENCE Cost, \$18,000
SAN FRANCISCO, Marina District.

Two-story and basement frame and stucco residence (9 rooms and 4 baths).
Owner—Withheld.
Architect—Charles Strothoff, 2274 15th Street.

RESIDENCES

To Be Done By Day's Work By Owner
RESIDENCES Cost, \$16,000
SAN FRANCISCO, E 24th Avenue N Lawton Street.

Four 1-story and basement frame and stucco residences.
Owner—R. F. Galli, 1574 28th Ave.

Contract Awarded.
RESIDENCE Cost, \$8500
ALAMEDA, Alameda Co., Cal. 1106 Sherman St.

Two-story and basement frame and stucco residence (8 rooms).
Owner—H. B. and I. L. Fisher, Alameda.
Plans by Owners.
Contractor—Ihrig & Thorpe, Alameda.

To Be Done By Day's Work.
RESIDENCES Cost, \$20,000
SAN FRANCISCO, W 26th Avenue S Kirkham St.

Five 1-story and basement frame and stucco residences.
Owner and Builder—H. Christens, 1422 47th Ave.
Architect—No. Given.

Contract Awarded.
RESIDENCE Cost, \$10,000
SAN FRANCISCO, West Fernwood Ravenwood.

Two-story and basement frame and stucco residence.
Owner and Builder—G. W. Stanl, 567 Turk Street.
Architect—Harold Stoner, 525 Market Street.

Contract Awarded.
RESIDENCE Cost, \$10,000
PALO ALTO, Santa Clara Co., Cal.

Two-story and basement frame and stucco residence (7 rooms).
Owner—N. F. Knox, President Ho, Palo Alto.
Architect—Guy O. Koepf, McDougl Bldg., Salinas.

Contractor—Henry B. Post, 1330 Webster St., Palo Alto.

Sub-Contracts Awarded.
RESIDENCE Cost, \$6000
ALBANY, Alameda Co., Cal. 523 Santa Fe Avenue.

One-story and basement frame and stucco residence (6 rooms).
Owner and Builder—H. G. Headrick, 1054 Masonic Ave., Albany.

Plans by Owner.
Plastering—H. Matheson, 4806 Man Avenue.
Heating—Pacific Gas Appliance Co., 19th and Market Sts., Oakland.

Sheet Metal—M. C. Henry, 1183 53rd Street.
Plumbing—L. V. Davis, 4118 Fullerton.
Roofing—Guy L. Tyler, 354 Hotart St., Oakland.

Concrete—Frank Cataline, 949 Tall Ave., Berkeley.
Sash and Doors—Western Door & Sash Co., 5th and Cypress.
Trim—E. K. Wood Lumber Co., Freerick and King Sts.

Owner Taking Bids.
RESIDENCE Cost, \$7500
SAN JOSE, Santa Clara Co., Calif.

One-story and basement frame and stucco residence (6 rooms).
Owner—A. Goldstein, Los Gatos.
Architect—Wolfe and Higgins, Real Bldg., San Jose.

Bids Being Taken.
RESIDENCE Cost, \$6000
SAN FRANCISCO, No. 1212 State St.

Two-story and basement frame and stucco duplex house (one 5-room flat, one 2-room apartment; electrical heat and refrigerator).
Owner—Charles Einfeld, 123 State St., San Francisco.

Architect—E. K. Dobkowitz, 425 Monterey St., San Francisco.

Preparing Plans.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Claremont District.

Two-story and basement frame and stucco residence (9 rooms and 2 baths).
Owner—Withheld.
Architect—Raymond Jeans, 605 Market St., San Francisco.
 Bids will be taken in about two weeks.

Completing Plans.
RESIDENCE Cost, \$5500
SAN FRANCISCO, Cordova St.

One-story and basement frame and stucco residence (5 rooms).
Owner and Builder—H. Petersen, 911 Geneva St.
Architect—No. Given.
 Sub-bids will be taken with a few days.

Plans Being Completed.
RESIDENCE Cost, \$6000
SAN FRANCISCO, SW Edna and
Staple Streets.
One-story and basement frame and
stucco residence.
Owner and Builder—G. W. Morris, 95
Pinehurst Way.
Architect—Not Given.
Sub-bids will be taken within a few
days.

Sub-Bids Being Taken.
RESIDENCE Cost, \$6000
KLAND, Alameda Co., Cal. Forest
Park.
One-story and basement frame and
stucco residence (6 rooms); Spanish
type).
Owner—Withheld.
Architect—Treichel & Goodpastor, 1540
San Pablo Ave., Oakland.
Contractor—C. H. Thrans, 28 Home
Place, Oakland.

Sub-bids are wanted on electric
work, tile roofing, hardwood flooring,
sterling, interior tile, sheet metal,
and work and gas furnace.

To Be Done By Day's Work.
RESIDENCE Cost, \$3000
CRAMENTO, Sacramento Co., Cal.
1529 11th Avenue.
One-story frame and stucco residence.
Owner and Builder—O. Froling, 1625
40th St., Sacramento.

To Be Done By Day's Work.
RESIDENCE Cost, \$3000
CRAMENTO, Sacramento Co., Cal.
One-story frame and stucco residence.
Owner & Builder—C. Thompson, 3443
Sacramento Blvd., Sacramento.

Plans Being Prepared.
RESIDENCE Cost, \$22,000
KLAND, Alameda Co., Cal. Clare-
mont Pines.
One-story and basement frame and
stucco residence (11 rooms and 4
baths).
Owner—Withheld.
Architect—Masten & Hurd, 210 Post
St., San Francisco.
Bids will be taken about June 1st.
It is furnace heat, tile shingle roof,
ceiling, hardwood floors.

Architect Taking Segregated Bids.
RESIDENCE Cost, \$12,000
KLAND, Alameda Co., Cal. Mont-
clair District.
Two-story and basement frame and
stucco residence (7 rooms and 3
baths; Spanish style; tile roof,
gas hot air heat, electric refrigera-
tor).
Owner—Hurford Sharon, 287 Sheridan
Road, Piedmont.
Architect—Ray F. Keefer, 770 Wesley
Ave., Oakland.

Completing Plans.
RESIDENCE Cost, \$12,000
PIEDMONT, Alameda Co., Cal.
Two-story and basement frame and
stucco residence (English style; 9
rooms, 3 baths; gas hot air heat,
shingle roof).
Owner—Sigwald Bros., 916 Alma Ave.,
Oakland.
Architect—Ray F. Keefer, 770 Wesley
Ave., Oakland.
Architect will take segregated bids
in about one week.

Sub-Bids Wanted.
RESIDENCE Cost, \$9000
PIEDMONT, Alameda Co., Cal. No.
21 Richardson Way.
Two-story and basement frame and
stucco residence (9 rooms).
Owner and Builder—J. W. Scammell,
924 Scenic Ave., Piedmont.

Sub-bids are wanted on cement
work, tile, painting, hardwood floor-
ing, wall paper, shades, electric fix-
tures, etc.

Preparing Preliminary Plans.
RESIDENCE Cost, \$3500
OAKLAND, Alameda Co., Cal. Mont-
clair District.

Two-story and basement frame and
stucco residence (6 rooms and 2
baths; gas hot air heat, tile roof,
electric refrigerator).
Owner—Chas. B. Gillean, 2629 Dwight
Way, Berkeley.
Plans by A. L. Herberger, 770 Wesley
Ave., Oakland.

Sub-Bids Being Taken.
RESIDENCE Cost, \$7000
SAN LEANDRO, Alameda Co., Cal.
No. 865 Rodney Drive.
One and one-half-story frame and
stucco residence (6 rooms).
Owner & Builder—C. W. Griffith, 1427
87th Ave., Oakland.
Architect—Not Given.

Sub-Bids Being Taken.
RESIDENCE Cost, \$7000
SAN LEANDRO, Alameda Co., Cal.
No. 784 Cary Drive.
One and one-half-story frame and
stucco residence (6 rooms).
Owner & Builder—C. W. Griffith, 1427
87th Ave., Oakland.
Architect—Not Given.

Plans Completed.
RESIDENCE Cost, \$7000
SAN LEANDRO, Alameda Co., Cal.
Broadmore Park.
One and one-half-story frame and
stucco residence with the roof (7
rooms).
Owner and Builder—Chester Gossett
327 Davis Court, San Leandro.
Plans by Chas. C. Way, 393 Oakes
Blvd., San Leandro.

To Be Done By Day's Work.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal. Mc-
Cormie St., near Alameda.
Two-story and basement frame and
stucco residence (8 rooms).
Owner and Builder—Emmet McQuoid,
198 Tilman Ave., San Jose.
Plans by Roy Babcock, 72 S-Sixth St.,
San Jose.

Low Bidder.
RESIDENCE Cost, \$—
SAN FRANCISCO, Marina District.
Two-story and basement frame and
stucco residence (8 rooms and 3
baths).
Owner—F. Heydenfeldt, 727 9th Ave.
Architect—N. R. Coulter, 46 Kearny
Street.
Low Bidder—Gerrit Harder, 1558 46th
Avenue.
Preparing Working Drawings.

RESIDENCE Cost, \$15,000
STOCKTON, San Joaquin Co., Calif.
Oxford Manor.
Two-story and basement frame and
stucco residence (9 rooms).
Owner—G. F. Schuler, 1130 E Weber
St., Stockton.
Architect—Jos. Losekann, 1218 West
Harding St., Stockton.
Bids will be taken in about 2 weeks.

Contract Awarded.
RESIDENCE Cost, \$9000
PALO ALTO, Santa Clara Co., Calif.
1911 Waverly St.
Two-story and basement frame and
stucco residence.
Owner—Clementina L. Gibson.
Architect—Not Given.
Contractor—W. H. Gibson, 533 Wood-
land Ave., East Palo Alto.

To Be Done By Day's Work.
RESIDENCE Cost, \$14,000
Two-story and basement frame and
stucco residence.
Owner and Builder—W. F. Klay, Menlo
Oaks Drive, Menlo Park.
(5573)

Plans Being Prepared.
RESIDENCE Cost, \$6000
SAN FRANCISCO, 121 State St.
Two-story and basement frame and
stucco duplex house (one 5-room
flat, one 2-room apartment; elec-
trical heat and refrigerator).
Owner—Charles Elmfield, 122 State St.,
San Francisco.
Plans by B. K. Dobkowitz, 425 Mon-
terey St., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$9680
SAN JOSE, Santa Clara Co., Calif.
Two-story and basement frame and
stucco residence (15 rooms and 2
baths).
Owner—C. P. Smith, 354 S-10th St.,
San Jose.
Architect—Charles McKenzie, Twohy
Bldg., San Jose.
Contractor—Dyke Walton, 1217 Uni-
versity Ave., San Jose.

Plumbing and Heating—Wm. Serpa,
497 N-13th St., San Jose.
Mill Work—Tilden Lumber Co., 754 W
San Carlos St., San Jose.
Lumber—McElroy-Cheim Lumber Co.,
925 S-First St., San Jose.
Electric Work—St. Charles Electric
Co., 39 N-Market St., San Jose.

Sub-Bids Being Taken.
RESIDENCE Cost, \$14,000
ORINDA, Contra Costa Co., Cal.
One-story and basement frame and
stucco residence.
Owner—Dr. George McClure, 411 30th
St., Oakland.
Plans by William Rich, Orinda.
Contractor—H. T. McCallor, 2231 E-
39th St., Fruitvale.

Being Done By Day's Work by Owner.
RESIDENCE Cost, \$7500
SAN JOSE, Santa Clara Co., Cal.
One-story and basement frame and
stucco residence (6 rooms).
Owner—A. Goldstein, Los Gatos.
Architect—Wolfe & Higgins, Realty
Bldg., San Jose.

Plans Being Completed.
RESIDENCE Cost, \$8500
ORINDA, Contra Costa Co., Cal.
Two-story and basement frame and
stucco Spanish type residence (8
rooms and 2 baths, colored tile),
the roof.
Owner—Withheld.
Architect—Leonard H. Ford, 1435 Har-
rison St., Oakland.
Bids will be taken in one week.

Date of Opening Bids Postponed Until
May 20th, 2:30 P. M.
RESIDENCE Cost, \$5,500
MONTEREY, Monterey Co., Cal. Mon-
terey Heights.
One-story and basement frame and
stucco residence (5 rooms; hot air
heating; shakes roof).
Owner—Miss Edna E. McKinley, 926
Harriet St., Monterey.
Architect—A. W. Story and W. W.
Hastings, Associated, Pajaro Val-
ley Bank Bldg., Watsonville.

Contract Awarded.
RESIDENCE Cost, \$75,000
PASADENA, Los Angeles Co., Cal.
No. 860 Fairfield Circle.
Two-and 4-story reinforced concrete
and brick residence (25 rooms, 6
baths).
Owner—Clarence B. Piper.
Architect—Robert H. Alnsworth, Cen-
tral Bldg., Pasadena.
Contractor—Parker & Gamble, Ltd.,
29 S-Encino Ave., Pasadena.

Planned
RESIDENCES Cost, \$6000 each.
BERKELEY, Alameda Co., Cal.
Group of 21 one-story and basement
frame and stucco residences.
Owner—John Whalen & Walter Huf-
chmidt, Federal Realty Building,
Oakland.
Architect—Not given.

Preparing Plans.
RESIDENCE, ETC. Cost, —
FRESNO, Fresno Co., Cal. Robla
Lomas Rancho, 8 miles north of
Woodlake.
Residence, 25 guest cottages and din-
ing hall.
Owner—Capt. John S. Dickerson.
Architect—H. Rafael Lake, Pacific
Southwest Bldg., Fresno.

Plans Being Completed.
RESIDENCE Cost, \$8500
MODESTO, Stanislaus Co., Cal.
One-story and basement frame and
stucco residence.
Owner—Withheld.
Architect—G. N. Hilburn, Elks Bldg.,
Modesto.

Bids will be taken in about two
weeks.

Plans Being Figured. Bids Close May
25th.
RESIDENCE Cost, \$6,000
MONTEREY, Monterey Co., Cal.
One-story and basement frame and
stucco residence (6 rooms).
Owner—Joe Crevella, 248 Pacific Ave.,
Monterey.
Architect—W. H. Hastings & A. W.
Story, 252 Alvarado St., Monterey.

Sub-Contracts Awarded.
FRATERNITY HOUSE
Cont. Price, \$29,429
BERKELEY, Alameda Co., Cal. Vir-
ginia St. near Le Conte Ave.
Two-story and basement frame and
stucco fraternity house.
Owner—Alpha Chi Sigma, 2428 College
Ave., Berkeley.
Architect—W. H. Ratcliff Jr., Cham-
ber of Commerce Bldg., Berkeley.
Contractor—H. J. Schulz, 811 Mendoc-
cino Ave., Berkeley.

Plumbing—Jeavons Plumbing & Heat-
ing Co., 2330 Shattuck Ave., Ber-
keley.
Millwork—The Oakland Planing Mill
Inc., 2nd and Washington Sts.
Tile Roofing—N. Clark & Sons, Pacific
and Fourth Sts., Alameda.
Sheet Metal—Walter Mork, 1814 San
Pablo Ave., Berkeley.
Lumber—E. K. Wood Lumber Co.,
Frederick and King Sts., Oakland.

Contract Awarded
RESIDENCE Cost, \$6,000
PACIFIC GROVE, Monterey Co., Cal.
Two-story frame and stucco residence
(7 rooms).
Owner—John Benham, Pacific Grove.
Architect—A. W. Story, Pajaro Val-
ley Bank Bldg., Watsonville.
Contractor—Wm. Pendagren, Pacific
Grove, Calif.

Contract Awarded.
RESIDENCE Cost, \$6000
OAKLAND, Alameda Co., Cal. Forest
Park.
Two-story and basement frame and
stucco residence (6 rooms; Span-
ish type).
Owner—Withheld.
Architect—Treichel & Goodpastor, 1540
San Pablo Ave., Oakland.
Contractor—C. H. Thrums, 28 Home
Place Oakland.

To Be Done By Day's Work By Owner
RESIDENCES Cost, \$20,000
SAN FRANCISCO, E 32nd Avenue S
Ulloa St.
Five 1-story and basement frame and
stucco residences.
Owner and Builder—A. J. Herzog, 635
Victoria Street.
Plans by G. H. Vore, 2057 87th Ave.,
Oakland.

Contract Awarded
RESIDENCE Cost, \$10,000
LIVERMORE, Alameda Co., Cal.
Two-story and basement frame and
stucco residence.
Owner—Withheld.

son St., Oakland.
Architect—Leonard Ford, 1435 Harri-
son—Harold Jensen, Livermore
Calif.

Contract Awarded.
RESIDENCE Cost, \$25,000
SANTA BARBARA, Santa Barbara
Co., Calif. Buena Vista (17-acre
site).
Two-story frame and stucco residence
Owner—Ernest E. Dugue, 20 S
Architect—Edwards & Flunkett, 20 S
Figueroa St., Santa Barbara.
Contractor—Chas. M. Urton, Granada
Bldg., Santa Barbara.
Construction will start immediately.

Sub Contracts Awarded
RESIDENCE Cost, \$10,000
PALO ALTO, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence (7 rooms).
Owner—N. F. Knox, President Hotel,
Palo Alto.
Architect—Guy O. Koepff, McDougall
Bldg., Salinas.
Contractor—Henry B. Post, 1330 Web-
ster St., Palo Alto.
Electric Wiring—Atlas Electric Co.,
343 4th St., San Francisco.
Excavation—E. S. Strain, Mayfield,
Calif.

Lumber—Pacific Mfg. Co., Santa
Clara, Calif.
Mill Work—Pacific Mfg. Co., Santa
Clara, Calif.
Reinf. Steel—Concrete Engineering
Co., 1280 Indiana St., San Fran-
cisco.
Tile Roofing—C. L. Frost, 2286 El Ca-
mino Real, Palo Alto.
Sub bids are wanted on plumbing,
heating, caustic tiling, painting,
plaster, stucco, sheet metal and hard-
wood flooring.

SCHOOLS

Completing Plans. May 13, 1931
SHOP Cost, \$10,000
EMERYVILLE, Alameda Co., Cal.
One-story shop (steel trusses, stucco,
tile walls).
Owner—Emeryville High School Dist.
Plans by Samuel Arnold, 3499 San
Pablo Ave., Oakland.
Bids will be taken within one week.

Preparing Plans.
SCHOOL Cost, \$200,000
LOS ANGELES, Cal. Tracy and St.
George Sts.
Twelve-unit high school.
Owner—Los Angeles City School Dist.,
Los Angeles.
Architect—Geo. M. Lindsey, Union In-
surance Bldg., Los Angeles.

SAN RAFAEL, Marin Co., Ca-
Until June 8, 5 P. M., bids will be
received by Oliver R. Hartzell, sec-
retary, Board of Education, High Sch
E Mission St. To furnish and deliv-
er school supplies, woodworking sup-
plies, janitors' supplies, commerial
supplies, typewriters, musical inst-
uments, students' transportation, la-
undry services, fuel, furniture and eq-
ipment for elementary and high sch
departments. Specifications obtainable
from secretary.

To Ask Bids in One Week.
SCHOOL Cost, \$20,000
EMERYVILLE, Alameda Co., Cal.
One-story brick elementary school
(classrooms).
Owner—Emeryville Elementary Sch
District, Emeryville.
Plans by Samuel Arnold, 3499 S
Pablo Ave., Oakland.

Plans Being Completed.
COLLEGE Cost, \$45,000
SANTA ROSA, Sonoma Co., Cal.
Second unit of junior college (to hou-
se six science laboratories and to
classrooms; offices and rest room
brick construction).
Owner—Santa Rosa Junior Colle
District.
Architect—W. H. Weeks, 525 Mark
St., San Francisco.
Bids will be taken in about 1 wee

Preparing Working Drawings.
SCHOOL Cost, \$50,000
SAN FRANCISCO, Sixteenth and Dol-
ores Sts.
Two-story and basement reinforc-
ed concrete and steel frame parochi-
al school.

Owner—Roman Catholic Archbishop
San Francisco, 1100 Franklin St.
Architect—H. A. Minton, 525 Marke
Street.
Engineer—L. H. Nishkian, 525 Marke
Street.

Mechanical Engineers—Leland & Ha-
ley, 58 Sutter St.
Plans will be ready for bids in abou
two weeks.
Will be known as Mission Dolore
School. Father John Sullivan is pas-
tor of the Mission Dolores Church.

Contracts Awarded.
ADDITIONS Cost, \$—
ALBANY, Alameda Co., Cal. Corne-
l and Marin Elementary Schools.
Six-classroom addition to Corne-
l School and ten classroom addition
to Marin School (reinforced con-
crete construction).
Owner—Albany School District (J. P.
Fletcher, Secretary), Albany.
Architect—Paul D. Dragon, Mercan-
tile Bank Bldg., Berkeley.

ORNAMENTAL WIRE AND IRON WORK

IRON WIRE Fence and Gates

**TENNIS COURT ENCLOSURES
WIRE SCREENS AND GUARDS**

WEST COAST WIRE & IRON WORKS

SAN FRANCISCO, CALIFORNIA

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Continuous Operation Since 1887

General Work

Harold Johnson, Heinst Bldg., San Francisco, at \$194,500.

Electrical Work

ott-Buttner Co., 19 Grand Ave., Oakland (amount not determined).

Heating

ott Co., 113 16th St., Oakland, at \$13,975.

Plans Being Figured—Bids Close May 22nd, 2 P. M.

CONCRETE WORK, ETC. Cost, \$—
SHOP, Inyo County, Calif.

concrete work; (2) composition roofing; (3) carpenter work or labor for school gymnasium.

Owner—Bishop Union High School Dist. (Thos. G. Watterson, clerk, Bishop).

Checked—Not Given.

Plans rejected on these units or rejected. Plans on file in office clerk at Bishop. Certified check \$ payable to Clerk required with bid.

Completing Plans.

HOOL Cost, \$100,000
IRONA, Los Angeles Co., Cal.

assembly grammar school and addition to high school.

Owner—Corona School Dist., Corona.

Checked—G. Stanley Underwood, 2646 W 9th St., Riverside.

Bids will be taken in about 3 weeks.

UPPER LAKE, Lake Co., Cal.—C. Weber Co., 650 2nd St., San Francisco, awarded contract by Upper Lake Grammar School District, to furnish and install school furniture. Bids received follow:

Double Portable Auditorium Chairs

F. Weber & Co., S. F. \$810

red E. Turner, Stockton..... 630

ucker-Fuller Co., S. F. 676.....

Single Portable Auditorium Chairs

red E. Turner..... 833.04

ucker-Fuller Co..... 818.00

*Not Universal.

62 Size B Universal Desks, No. 134

red E. Turner..... \$740.80

F. Weber & Co..... 761.36

ucker-Fuller Co..... 815.30

*Not Universal.

34 Size A Universal Desks No. 134

red E. Turner..... \$419.90

F. Weber & Co..... 435.20

ucker-Fuller Co..... 462.40

*Not Universal.

Five Office Chairs

F. Weber & Co..... \$29.75

red E. Turner..... 20.75

ucker-Fuller Co..... 47.50

One Office Desk

F. Weber & Co..... \$35.00

ucker-Fuller Co..... 39.75

red E. Turner..... 49.50

Five Teachers' Desks

red E. Turner..... \$122.50

ucker-Fuller Co..... 137.50

F. Weber & Co..... 142.50

72 Size C Universal Desks No. 134

F. Weber & Co..... \$330

red E. Turner..... 340

ucker-Fuller Co..... 393

5453) 1st report April 25, 1931. 15

Architect—Cole & Brouhard, 1st National Bank Bldg., Chic.

The structure, completed, will cost \$67,000. It is proposed to proceed with construction in units, the first unit to cost \$15,000, and to contain boys' dressing rooms, locker and shower rooms.

The second unit will contain girls' gymnasium, and a third, comprising a basketball court with balcony seating for use as an auditorium.

Frank R. Parker, a member of the Board of Education, proposes to have the building constructed by the carpentry classes of the high school.

Plans Being Figured—Bids Close June 1st, 8 P. M.

ADDITION Cost, \$15,000
CASTROVILLE, Monterey Co., Cal.

One-story reinforced concrete school addition.

Owner—Castroville Union Grammar School District.

Architect—W. H. Weeks, 525 Market St., San Francisco.

Certified check 5% payable to district required with bid. Plans on file in office of J. Gambetta, clerk of the district, at Castroville, and obtainable from the architect.

Sheet Metal Contract Awarded.

GYMNASIUM Cost, \$100,000
SAN JOSE, Santa Clara Co., Cal.

San Jose Teachers' College Grounds.

Reinforced concrete men's gymnasium Owner—State of California.

Architect—State Department of Public Works, Division of Architecture

Public Works Bldg., Sacramento.

Contractor—J. J. Groden & Co., 1023 San Antonio St., Alameda.

Sheet Metal—Gulffoy Cornice Works, 1234 Howard St., San Francisco, at \$1396.

Other awards previously reported.

Preparing Working Drawings.

SCHOOL Cost, \$60,000
STOCKTON, San Joaquin Co., Calif.

Channel and Pilgrim Sts.

Two-story brick vocational school (10 classrooms; 60x14-ft.)

Owner—Stockton City School District.

Architect—J. U. Cloudsley, Exchange Bldg., Stockton and Jos. Losekann

1218 W Harding St., Stockton, associated.

Steel floor joists, wood stud partitions, steam heating system, built-up roof. Plans will be ready for bids in about one week.

Plans Being Figured—Bids Close June 3rd, 2:30 P. M.

ADDITIONS Cost, \$150,000
SAN FRANCISCO. Scott and O'Farrell Streets.

Addition to Girls' High School.

Owner—City and County of San Francisco.

Architect—F. H. Meyer, 525 Market Street.

Preparing Working Drawings.

ADDITIONS Cost, \$—
SAN FRANCISCO. Lowell and Morse

Additions to Longfellow School.

Owner—City and County of San Francisco, S. J. Heister, Secretary, Board of Public Works.

Architect—Frederick H. Meyer, 742 Market St., San Francisco.

Preparing Preliminary Plans.

SCHOOL Cost, \$60,000
STOCKTON, San Joaquin Co., Calif.

Channel and Pilgrim Sts.

Two-story brick vocational school (10 classrooms; 60x14-ft.)

Owner—Stockton City School District.

Architect—J. U. Cloudsley, Exchange Bldg., Stockton and Jos. Losekann

1218 W Harding St., Stockton, associated.

Working drawings will be started in about one week.

Commissioned To Prepare Plans.

GYMNASIUM Cost, \$—
RIO VISTA, Solano Co., Calif.

New gymnasium.

Owner—Rio Vista Union High School District, Rio Vista.

Architect—Frederick S. Harrison, 1005 10th St., Sacramento.

Plans Being Figured—Bids Close June 3, 2:30 P. M.

ADDITIONS Cost, as noted
SAN FRANCISCO. Scott and O'Farrell Streets.

Two-story and basement brick and steel frame Girls' High School Addition (terra cotta front).

Owner—City and County of San Francisco, S. J. Heister, Secty., Board of Public Works.

Architect—F. H. Meyer, 525 Market St.

Bids are wanted for:

General Contract, estimated cost, \$155,000; bond of \$38,800 required of successful bidder.

Electric work, estimated cost, \$15,000; bond of \$3,800.

Mechanical equipment, est. cost, \$9,000; bond \$2,300.

Plumbing and gas fitting, est. cost, \$12,500; bond \$3,200.

Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Architecture, 2nd floor, City Hall, on deposit of \$25 for general contract and \$15 each for other units of the work.

Plans Being Prepared.

SCHOOL Cost, \$2400
SANTA ROSA, Sonoma Co., Cal. (Bur-

bank Grammar School).

Plumbing system for school.

Owner—Santa Rosa School Dist., care F. O. Fryor, 1505 13th St., Santa Rosa.

Architect—William Herbert, Rosenberg Bldg., Santa Rosa.

Ready for bids in about two weeks.

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Bids Opened.
SCHOOL Cost, \$57,000
YUBA CITY, Sutter Co., Cal.
 Two-story brick elementary school.
 Owner—Yuba School Dist., C. F. Taylor, Roy E. Cassidy and Elizabeth Z. Littleton (clerk), trustees of district.
 Architect—Davis-Pearce Co., Grant & Weber Sls., Stockton.

J. S. Hannah, 208 Market St., San Francisco. (a) \$33,342; (b) \$1890; (c) \$500; (d) \$9086.31; (e) \$11,300.25; (f) \$400; (g) \$337; (h) \$97; (i) \$87.
 Mathews Const. Co., Sacramento (a) \$37,990; (b) \$2800; (c) \$500; (d) \$7700.00; (e) \$9000; (f) \$...; (g) \$445; (h) \$74 (i) \$62.

M. R. Peterson, San Francisco (a) \$91,700; (b) \$3065; (c) \$400; (d) \$3473; (e) \$10,517; (f) \$375; (g) \$300; (h) \$70; (i) \$75.

C. J. Hopkinson, Sacramento, (a) \$93,984 (b) \$3021; (c) \$505; (d) \$3775; (e) \$10,798; (f) \$550; (g) \$305; (h) \$70; (i) \$75.

C. H. Dodd, Stockton, (a) \$94,750; (b) \$3300; (c) \$525; (d) \$8000; (e) \$9,000; (f) \$400; (g) \$397.50 (h) \$97.50; (i) \$57.50.

F. H. Betz, Stockton (a) \$95,600; (b) \$2850; (c) \$528; (d) \$8756; (e) \$10,201; (f) \$353; (g) \$200; (h) \$75; (i) \$70.

H. H. Henning, Stockton, (a) \$95,870; (b) \$3600; (c) \$525; (d) \$8500; (e) \$9600; (f) \$275; (g) \$390; (h) \$90; (i) \$50.

J. J. Cavanagh, Stockton, (a) \$95,975; (b) \$2510; (c) \$510; (d) \$9040; (e) \$11,500; (f) \$375; (g) \$397; (h) \$97; (i) \$87
 Salih Bros., Los Angeles, (a) \$96,130 (b) \$3500; (c) \$450; (d) \$8458; (e) \$10,150.45; (f) \$350; (g) \$317; (h) \$65; (i) \$56.
 H. W. Robertson (a) \$96,600; (c) \$2,900; (c) \$700; (d) \$9200; (e) \$11,000; (f) \$800; (g) \$300; (h) \$100; (i) \$100.

F. H. Cross, Stockton, (a) \$97,355; (b) \$4000; (c) \$650; (d) \$11,000; (e) \$13,000; (f) \$575; (g) \$397; (h) \$97; (i) \$87.

E. H. Riley, Stockton, (a) \$97,413; (b) \$3023; (c) \$470; (d) \$9855; (e) \$12,400; (f) \$798; (g) \$397; (h) \$98; (i) \$100.

C. F. Unger, Sacramento, (a) \$98,325 (b) \$2854; (c) \$650; (d) \$9232; (e) \$11,015; (f) \$425; (g) \$300; (h) \$70; (i) \$75.
 Sjoberg & Sons, San Francisco, (a) \$99,482; (b) \$2781; (c) \$654; (d) \$9212; (e) \$10,439; (f) \$340; (g) \$310; (h) \$82; (i) \$80.

Asevedo & Sarmiento, Sacramento, (a) \$99,500; (b) \$3200; (c) \$750; (d) \$8,900; (e) \$10,000; (f) \$400; (g) \$300; (h) \$70; (i) \$75.

Eugene Kenyon, (a) \$99,990; (b) \$4,900; (c) \$550; (d) \$9500; (e) \$11,500; (f) \$350; (g) \$300; (h) \$75; (i) \$70.

Geo. D. Hudnutt, Sacramento (a) \$100,175; (b) \$2850; (c) \$475; (d) \$9237; (e) \$11,230; (f) \$372; (g) \$234; (h) \$127 (i) \$111.

R. Hodgson & Son, (a) \$102,500; (b) \$2700 (c) \$765; (d) \$9200; (e) \$11,500; (f) \$350; (g) \$375; (h) \$90; (i) \$80.

Plans Being Completed.
SCHOOL Cost, \$15,000
CLARKSBURG, Yolo Co., Cal.
 One-story brick addition to grammar school (add two classrooms).
 Owner—Clarksburg Grammar School District, Clarksburg.
 Architect—Charles Deenan, California State Life Bldg., Sacramento.
 Plans will be ready for bids in about three weeks.

SACRAMENTO, Cal.—Until May 18, 5 P. M., bids will be received by Chas. C. Hughes, secretary, Board of Education, to furnish f. o. b. Sacramento: (1) laboratory and science supplies; (2) stationary and classroom supplies. Specifications obtainable from Secretary, School Administration Bldg., 21st and L Sts., Sacramento.

Commissioned to Prepare Plans.
SCHOOL
 Bonds of \$6,000 voted to finance

VISALIA, Tulare Co., Cal.
 Two-classroom school.
 Owner—Stone Corral School District.
 Architect—E. W. Peterson, Mason Bldg., Fresno.

Contract Awarded.
SCHOOL Cost, \$3000
SULPHUR BANK, Lake Co., Cal.
 One-story frame and stucco school (2 classrooms).

Owner—Sulphur Bank School District (Chas. Luella B. Carr).
 Architect—N. R. Coulter, 46 Kearny St., San Francisco.

Contractor—H. R. Heidler, Lakeport. Following is a complete list of bids:
 H. R. Heidler, Lakeport.....\$6,954
 Carl Nelson, Stockton.....7,745
 J. H. Johans, San Francisco.....3,333
 A. Schneider.....9,036
 Ray Mansfield.....9,330

KENTFIELD, Marin Co. Cal.—Until May 23, 12 noon, bids will be received by Mary F. Seymour, secretary, Tamalpais Union High School District to supply district with:
 (a) lumber;
 (b) carpenter work;
 (c) cement;
 (d) mill work.
 Specifications obtainable from secretary.

To Ask Bids in Few Days
GYMNASIUM Cost, \$25,000
ORVILLE, Butte Co., Calif.
 One-story steel frame and reinforced concrete gymnasium.
 Owner—Orville Union High School District.
 Architect—N. W. Sexton, deYoung Bldg., San Francisco.

CHICO, Butte Co., Cal.—Student Body of the Chico State Teachers' College proposes to raise \$3550 to finance purchase of an organ for installation in the new auditorium building. An organ manufactured by a San Francisco firm will probably be installed.

Bond Election Postponed Until May 29.

ALTERATIONS Cost, \$4500
MANTECA, San Joaquin Co., Cal.
 Three miles south of Manteca. Alterations and additions to school (add one room, etc.)
 Owner—Veritas Grammar School Dist.
 Architect—Ralph Morrell, Union Bldg., Stockton.

Bond election previously called for May 6.

Contract Awarded.
SCHOOL Glend. Cost, price, \$5000
ELK CREEK, Glenn Co., Cal.
 One-story frame and stucco grammar school (3 classrooms).
 Owner—Elk Creek Grammar School District.
 Architect—O. A. Deichmann, 111 Sutter St., San Francisco.

Contractor—F. F. Mulford, Elk Creek. Following is a complete list of bids:
 J. P. Mulford, Elk Creek.....\$5,000
 Eugene Holbrook, Willows.....6,000
 Adolph Jansen, Willows.....6,230

Preliminary Plans Approved.
SCHOOL Cost, \$135,000
SAN FRANCISCO, Connecticut Street bet. 19th and 20th Sts. (Matt I. Sullivan Elementary School).
 Three-story reinf. concrete school.

Owner—City and County of San Francisco, S. J. Hester, sec'y, Board of Public Works.

Architect—G. A. Applegarth, Clans Spreckels Bldg.
 Working drawings will be started immediately. This structure will contain 11 standard classrooms, 1 kindergarten, 1 assembly hall and lunch room with kitchen, teachers' office, clinic and waiting room, storage rooms, two lavatories, etc.

Plans Being Figured
PASADENA BUILDINGS Cost, \$500,00
PASADENA, L. A. Co., Calif.
 Two 3-story and basement reinforced concrete laboratory bldgs. (60 134' & 100x125).
 Owner—California Institute of Technology, E. California St., Pasadena.
 Architect—Plans by Owner.

BANKS, STORES & OFFICE

Contract Awarded.
ALTERATIONS Cost, price, \$11,86
SAN JOSE, Santa Clara Co., Cal.
 First St. near San Carlos St.
 Alterations and additions to present 1 and 2-story stores (brick walls and wood interior).
 Owner—Hale Bros. Co.
 Architect—Zinder & Curtis, 35 W San Carlos St., San Jose.
 Contractor—Henry Bridges, 1338 Lincoln, San Jose.

Plastering Contract Awarded.
ALTERATIONS Cost, \$550
SAN FRANCISCO, No. 604 Mission Street.
 Alterations to front of office building
 Owner—Bothin Real Estate Co., 60 Mission St., San Francisco.

Architect—J. V. D. Linden, 604 Mission St., San Francisco.
 Contractor—F. R. Sierlist Co., 60 Mission St., San Francisco.
Plastering—James F. Smith, 271 Mission St., San Francisco.
 As previously reported, scaffolding awarded to Patent Scaffolding Co. 270 13th St., S. F.; painting to Horr Co., 35 Federal St., S. F.

Preparing Working Drawings
STORE Cost, \$150,000
SAN MATEO, San Mateo Co., Cal.
 Third Avenue.
 One or two-story reinforced concrete and steel department store.
 Owner—Levy Bros., 200 Second St., San Mateo.

Architect—Hyman & Appleton, 68 Post St., San Francisco.
 Plans will be ready for bids in about thirty days.
 (4031) 1st report Dec. 8, 1930; 2nd

Plans Being Prepared.
STORE Cost, \$6000
CHICO, Butte Co., Cal.
 One-story reinforced concrete store.
 Owner—J. H. Morrison.
 Architect—Cole & Brouhard, 1st National Bank Bldg., Chico.
 Plans will be ready for bids in about two weeks.

Sub Bids Being Taken
STORE Cost, \$25,000
OAKLAND, Alameda Co., Cal. Broadway
 One-story and basement Class C steel frame, concrete and hollow tile department store.
 Owner—Isadore Weinstein, 1041 Market St., San Francisco.
 Architect—Wm. Knowles, 1214 Webster St., Oakland.

Contractor—Jacks & Irvine, 71 New Montgomery St., San Francisco.
Reinforced Steel—W. S. Wetenhall Co. 17th & Wisconsin, S. F.
Lumber—Sunset Lumber Co., 400 High Street, Oakland.

Contract Awarded
STORE Cost, \$1—
OAKLAND, Alameda Co., Cal. Ocean View Drive and College Ave.
 One-story reinforced concrete store (3 stores).
 Owner—Bank of America.
 Architect—H. A. Milton, Bank of America Bldg., Eddy and Powell Sts., San Francisco.
 Contractor—Sullivan & Sullivan, 3927 39th Ave., Oakland.

Contract Awarded.
ALTERATIONS Cost, \$35,000
SAN FRANCISCO. Stockton and O'Farrell Streets.
 Alterations to two-story and mezzanine floor store (class C construction); structural steel in building will be re-used.
 Owner—Imperial Realty Corp.
 Architect—G. Albert Lansburgh, 140 Montgomery St.
 Contractor—Barrett & Hilp, 918 Harrison Street.
 New elevators, etc. Bids will be taken on mill work within a few days.

Plans Being Figured. Bids Close May 20th.
STORE Cost, \$10,000
MELROSE, Alameda Co., Cal.
 One-story concrete store.
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of America Bldg., San Francisco.

Preliminary Plans.
NEWSPAPER OFFICE Cost \$25,000
REDWOOD CITY, San Mateo Co., Cal.
 One and two-story reinforced concrete office.
 Owner—Peninsula Newspapers, Inc., 248 Hamilton St., Palo Alto.
 Architect—John B. McCool, 351 Bush St., San Francisco.

Contract Awarded
OFFICES Cost, \$200,000
LOS ANGELES, Calif., 415 W. 5th St.
 4-story reinforced concrete offices, (40x126).
 Owner—State Mutual Bldg. & Loan Assn. 826 S. Spring St., L. A.
 Architect—Wm. Richards, Architects Bldg., L. A.
 Contractor—Wm. Simpson Constr. Co., Architects Bldg., L. A.

Contract Awarded
OFFICE BUILDING Cost, \$200,000
LOS ANGELES, Calif., 415 W. Fifth Street.
 Four-story, Class A steel and concrete office.
 Owner—State Mutual Building & Loan Assn.
 Architect—William Richards, 606 Architects Bldg., L. A.
 Contractor—Wm. Simpson Construction Co., 1907 Architects Bldg., L. A.

To Ask Bids Within Few Days
REMODELING Cost, \$—
NAIPA, Napa Co., Calif. Brown and Second Streets.
 Remodel present building for bank.
 Owner—Bank of America.
 Architect—H. A. Minton, Bank of America Bldg., Eddy and Powell Sts., San Francisco.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$5500
SAN FRANCISCO. No. 604 Mission Street.
 Alterations to front of office building.
 Owner—Bothin Real Estate Co., 604 Mission St., San Francisco.
 Architect—J. V. D. Linden, 604 Mission St., San Francisco.
 Contractor—F. R. Siegrist Co., 604 Mission St., San Francisco.
Scaffolding—Patent Scaffolding Co., 270 13th St., San Francisco.
Painting—Horn Co., 58 Federal St., San Francisco.

Plans Being Prepared.
STORE Cost, \$5000
SAN FRANCISCO. S Geneva E Mission St.
 One-story frame and stucco store (Modernistic type).
 Owner and Builder—A. H. Cuthbert, 32 Keystone Way.
 Architect—Not Given.
 Sub-bids will be taken May 11.

Being Done By Day's Work By Owner
STOR. ETC. Cost, \$—
MONTEREY, Monterey Co., Cal. Alvarado Street.
 Two-story reinforced concrete store building, social hall, etc. (Spanish type).
 Owner—E. B. Gross, Reeside and Wave Sts., Monterey.
 Architect—Swartz & Ryland, Spazler Bldg., Monterey.
 Mgr. of Const.—R. Sharpe, % owner.
 Sub-bids will be taken by owner shortly.

Sub-Bids Being Taken.
STORE Cost, \$5000
SAN FRANCISCO. S Geneva E Mission Street.
 One-story frame and stucco store (Modernistic type).
 Owner and Builder—A. H. Cuthbert, 32 Keystone Way.
 Architect—Not Given.

Preliminary Plans Being Prepared.
STORE Cost, \$—
OAKLAND, Alameda Co., Calif.
 One-story reinforced concrete and steel frame store (8 stores).
 Owner—Withheld.
 Architect—Chas. McCall, 1404 Franklin St., Oakland.

Summerhill Wood Roof Truss Contract Awarded.
STORE Cost, \$25,000
OAKLAND, Alameda Co., Cal. Broadway.
 One-story and basement Class C steel frame, concrete and hollow tile department store.
 Owner—Isadore Weinstein, 1041 Market St., San Francisco.
 Architect—Wm. Knowles, 1214 Webster St., Oakland.
 Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco.
Wood Roof Trusses—Summerhill Truss Co., 254 Hobart St., Oakland.
 As previously reported, reinforcing steel awarded to W. S. Wettenhall Co., 17th and Wisconsin Sts., S. F.; lumber to Sunset Lumber Co., 400 High St., Oakland.

Plans Being Prepared.
OFFICES Cost, \$90,000
SACRAMENTO, Sacramento Co., Cal. SW Tenth and N Streets.
 One-story class A reinforced concrete fruit exchange office building (80x150-ft., garage in rear 42-ft. sq.).
 Owner—California Fruit Exchange (J. L. Nagle, general manager), Sacramento.
 Architect—Starks & Flanders, Forum Bldg., Sacramento.
 Bids will be taken about July 1. It is expected to break ground by Aug. 1.

THEATRES

Low Bidder.
THEATER & STORE Cost, \$50,000
WHITTIER, Los Angeles Co., Calif. Greenleaf Avenue (reinforced concrete theater; 140x80-ft.; auditorium to seat 1000; marble and tile).
 Owner—A. Wardman.
 Lessee—Hughes-Franklin Theatres Co. Architect—David S. Bushnell, Warner Bros. Bldg., Whittier.
 Low Bidder—J. H. Linkletter, 107 W. Bailey St., Whittier.

Sheet Metal Contract Awarded.
THEATRE Cost, \$85,000
SOUTH SAN FRANCISCO, San Mateo Co., Cal.
 Two-story steel frame and concrete theatre.
 Owner—A. J. Eschelbach, 303 Orange Ave., South San Francisco.
 Architect—Reid Bros., 105 Montgomery St., San Francisco.
Sheet Metal—Guilfof Cornice Works,

1234 Howard St., San Francisco.
 As previously reported, structural steel awarded to Golden Gate Iron Works, 1641 Howard St., S. F.; ornamental and miscellaneous iron to San Jose Iron Works, 535 W-San Carlos St., San Jose.

Plans Being Completed.
ALTERATIONS Cost, \$—
SACRAMENTO, Sacramento Co., Cal. K St., bet. 8th and 9th Sts.
 Remodel Sequoia Theatre.
 Owner—Geo. W. Peltier, 2228 21st St., Sacramento.
 Architect—Withheld.
 Plans to be ready for bids in 30 days.
 Renovations will include lowering floor, changing motion picture screen and installing new seating and drapes. The theatre is under lease to Henry Heber.

Architect Taking Bids On Electric, Decorating, Painting and Heating
ALTERATIONS Cost, \$50,000
OAKLAND, Alameda Co., Cal. No. 445 Twenty-third Avenue.
 Alterations to Class C steel frame and concrete theatre (wood joists).
 Owner—Golden State Theatre & Realty Co., 25 Taylor St., San Francisco.
 Architect—Reid Bros., 105 Montgomery St., San Francisco.
 Contractor—Alfred J. Hopper, 1769 Pleasant Valley Road, Piedmont.
 Other awards reported May 2, 1931.

Sheet Metal Contract Awarded.
THEATRE Cost, \$200,000
MERCED, Merced Co., Cal. Seventh and J Sts. (150x150 feet).
 Two-story Class C steel frame and reinforced concrete theatre, stores and office building (theatre to seat 1700).
 Owner—Golden State Theatres, Inc., 988 Market St., San Francisco.
 Architect—Reid Bros., 105 Montgomery St., San Francisco.
 Contractor—C. B. Pasqualetti, 2330 Larkin St., San Francisco.
Sheet Metal—Guilfof Cornice Works, 1234 Howard St., San Francisco.
 Other awards previously reported.

Plans Being Completed.
ALTERATIONS Cost approx. \$60,000
SAN FRANCISCO, 4531 Mission Street (Excelsior Theatre).
 Alterations to present theatre.
 Owner—Golden State Theatre & Realty Co., 25 Taylor St.
 Architect—F. H. Meyer, 525 Market St.
 Bids will be taken about June 1.

Completing Plans.
THEATRE Cost, \$—
LONG BEACH, Los Angeles Co., Cal. No. 221 E-Ocean Ave.
 One-story reinforced concrete theatre (to seat 1144), 100x150 feet.
 Owner—United Artists Theatres of Calif.
 Architect—Walker & Eisen, Western Pacific Bldg., Los Angeles.
 Bids will be taken about May 20.

Completing Plans.
THEATRE Cost, \$150,000
BERKELEY, Alameda Co., Cal. Shattuck Ave. and Bancroft Way.
 Class A theatre (to seat 900).
 Owner—United Artists Theatres of California (Jos. M. Schenck, vice-president), 1956 S-Vermont St., Los Angeles.
 Architect—Walker & Eisen and C. A. Baich, Western Pacific Bldg., Los Angeles.
 Plans will be ready for bids about May 20.

Building Permit Applied For.
THEATRE Cost, \$150,000
RICHMOND, Contra Costa Co., Cal. S. Macdonald Ave., bet. Seventh and Eighth Streets.
 Class A concrete theatre (to seat 1200)

Owner—United Artists of California, 1966 S-Vermont St., Los Angeles. (Lewis Anger in charge).
 Architect—Walker & Eisen and C. A. Balch, Western Pacific Bldg., Los Angeles.

Sub-Bids Wanted.
ALTERATIONS Cost, \$50,000
OAKLAND, Alameda Co., Calif. 445 23rd Avenue.

Alterations to class C steel frame and concrete to theatre (wood joists).

Owner—Golden State Theatre & Realty Co., 25 Taylor St., San Francisco.

Architect—Reid Bros., 105 Montgomery St., San Francisco.

Contractor—A. J. Hopper, 1763 Pleasant Valley Road, Piedmont.

Structural Steel—Judson Mfg. Co., Emeryville.

Sub-bids are wanted on plastering, ornamental iron work, tile floors, etc., plumbing, reinforcing steel bars and sheet metal work.

As previously reported, mill work awarded to Petersen Mill, Watsonville; sash and doors to Western Door and Sash Co., 5th and Cypress Sts., Oakland.

To Purchase Site.
THEATRE Cost, \$—
VALLEJO, Solano Co., Cal.
 Class A theatre.

Owner—United Artists Corp., Los Angeles.

Architect—Walker & Eisen and C. A. Balch, Western Pacific Bldg., Los Angeles.

Negotiations for a site for this structure in the down town section are now under way and, it is expected, will be closed shortly.

Plans Completed.
THEATRE Cost, \$400,000
STOCKTON, San Joaquin Co., Calif.
 Main Street bet. Market and Stanislaus Streets.

Two-story class A theatre.

Owner—National Theatres Syndicate, 25 Taylor St., San Francisco.

Architect—Eliass & Fairweather, Balboa Bldg., San Francisco.

Building permit has been applied for.

Plans Being Completed.
THEATRE Cost, \$150,000
SAN JOSE, Santa Clara Co., Cal. NE
 First and San Salvador Sts.

Class A theatre building.

Owner—Mrs. Norman M. Parrott and Morey B. Fleming.

Lessee—United Artists Corp., 1966 S Vermont St., Los Angeles.

Architect—Walker & Eisen, 1031 South Broadway, Los Angeles.

Plans will be ready for bids in about 30 days.

WHARVES AND DOCKS

LOS ANGELES, Calif.—Until 10 A. M., May 27, bids will be received by the Los Angeles harbor department, at room 112, City Hall, Los Angeles, for the construction of reinforced concrete wharf deck, retaining walls and shed foundations at Berths 144-146, L. A. Harbor; Sp. No. 87. The work includes construction of a concrete wharf deck, approximately 1012x36 ft., approximately 1100 lin. ft. of concrete retaining walls of various heights, and concrete foundations for a steel transit shed. Bidding data may be obtained from the harbor engineer, Branch City Hall, San Pedro. Certified check or bond for 10 per cent must accompany each bid. Burt Edwards, general manager.

SAN FRANCISCO.—Bids will be asked shortly by Constructing Quartermaster, Fort Mason, for repairs to Torpedo Dock at Fort Winfield Scott.

LONG BEACH, Cal.—Until 9 A. M., May 16, bids will be received by the Long Beach city council for furnishing and delivering f.o.b. Pier No. 1, Inner Harbor or Municipal Pier A, Outer Harbor, approx. 135,000 E. ft. 2x12-in. creosoted Douglas fir, rough. Spec. H. D. 54.

OAKLAND, Cal.—Following bids received by City Port Commission, 421 Oakland Bank Bldg., to furnish and drive pile foundations for Warehouse "C," Outer Harbor.
 (a) untreated wooden piles, furnished and driven, per lineal foot.
 (b) concrete followers, per lineal foot, furnished and driven.

M. E. McGowan, 74 New Montgomery St., San Francisco, (a), \$275; (b) \$2.00.

Duncanson-Harrelson Co., S. F. (a) \$29; (b) \$1.50.
 Ben. C. Gerwick, San Francisco, (a) \$319; (b) \$1.50.

A. W. Kitchin, San Francisco (a) \$3.00; (b) \$1.75.
 Clinton-Stephenson Const. Co., S. F. (a) \$3.3875; (b) \$1.11.

Healy-Tibbitts Const. Co., S. F. (a) \$3.57; (b) \$1.43.

Bids held under advisement.

MISCELLANEOUS CONSTRUCTION

EL NIDO, Merced Co., Cal.—Until June 1, 3 P. M., bids will be received by A. L. Cowell, secretary, El Nido Irrigation District, to furnish redwood, cedar, or creosoted pine lumber. Certified check or bid bond \$5 required with bid. Specifications obtainable from G. E. Winton, chief engineer of district, Shaffer Bldg., Merced.

Commissioned To Prepare Plans.
BOILER Cost, \$—
LOS ANGELES, Cal. (Campus of the University of California).

Additional boiler.

Owner—Regents of the University of California, Berkeley.

Engineers—Hunter & Hudson, 408 S Spring St., Los Angeles.

MARCH FIELD, Riverside Co., Cal.—See "Government Work and Supplies," this issue. Bids wanted by Constructing Quartermaster to construct incinerator, gas, water, sewerage and electrical connections for 61 buildings and for grading, roads, walks and curbs.

BERKELEY, Alameda Co., Calif.—Snead & Co., at \$3,753 awarded contract by Regents of the University of California to furnish and install book stacks in the group of engineering buildings located on the campus of the University of California.

STOCKTON, San Joaquin Co., Cal.—Bids will be asked at once by city council to construct a 45-inch steel wire netting fence around Yosemite Lake in American Legion Park. The bids will probably be opened at the May 25th meeting of the council. Further mention will be made of this work.

SAN FRANCISCO.—Bids will be asked shortly by the Board of Public Works to construct a 6-ft. concrete stairway in the north side of 22nd St.; between Kansas and Rhode Island Sts.; estimated cost \$1000. Plans for work have been completed by the Bureau of Engineering, 3rd floor, City Hall.

ALAMEDA, Alameda Co., Cal.—Until May 19, 8 P. M., bids will be received by W. E. Varcoe, city clerk, for resurfacing south tennis court at Lincoln Park. Certified check 10% payable to city required with bid. Plans on file in office of clerk. Burnett Hamilton, city engineer.

LOS ANGELES, Cal.—The Los Angeles Park Commission has been authorized by the city council to employ an architect for the preparation of plans and specifications for an observatory, planetarium and museum of science to be erected at Griffith Park. Provisions for this project were made in the will of the late Colonel Griffith J. Griffith.

MISCELLANEOUS SUPPLIES AND MATERIALS

ORANGE, Orange Co., Cal.—Until 1 p. m. June 2, bids will be received by city council to furnish Neon sign to be placed on the Butterfield property north of the county hospital. Specifications on file at office of city clerk.

MONTEREY, Monterey Co., Cal.—W. W. Hastings, 282 Alvarado St., Monterey, is in the market for catalogs and information on Neon electric signs.

LOS ANGELES, Cal.—Until 11 A. M., May 18th bids will be received by Thomas Oughton, City Purchasing Agent, for furnishing porcelain enameled iron signs under specifications No. 2444, f. o. b. department of water and power's warehouse, 1630 N. Main St. The items are:
 (1) 12,500 "high" sign 3½x5½-in.;
 (2) 12,500 "voltage" signs, 3¼-in.x5¼-in.;
 (3) 11,000 "high voltage" signs, 3¼-in.x12-in.;
 (4) 10,000 "M" signs, 3¼-in.x2½-in.

SALINAS, Monterey Co., Cal.—Until May 18, 7:30 P. M., bids will be received by M. R. Keef, city clerk, to furnish and deliver oils and gasoline to city for period commencing May 18, 1931, and ending May 18, 1932. Specifications obtainable from clerk.

In seeking to comply with the provisions of the Davis-Bacon prevailing wage law, contractors for public buildings encounter difficulties, says Paul Wooton, Washington correspondent for Engineering News-Record. One of the first applications of this law, which requires that they must pay prevailing wage rates, was made by the district of Columbia officials in connection with building work in the city of Washington. In instructions to bidders the district officials inserted the requirement that the contractors must submit a certified copy of their time books every month showing the work covered by the measurement sheets, this requirement extending to work of subcontractors or other work included in the payment, either incorporated in the building or on which the 60 per cent allowance for material is paid. To comply with the requirements, a contractor would be forced to submit certified copies of the payrolls of cement mills, steel plants and other manufacturing industries. The contractor would also be forced by these rigid requirements to determine whether or not the supply industries are paying prevailing wage rates to their employees. After protest, an order was issued modifying the requirements to relieve the contractor of responsibility concerning wages paid by supply trades. In the opinion of department officials the incident demonstrates the confusion in government circles as to the method of administering the law.

American Tractor Equipment Co. of Nevada has filed articles of incorporation in Oakland. Directors are Leslie D. Johnson, P. M. Layton, C. L. Dowd, T. A. Withers and A. E. Painter, all of Reno, Nevada.

Engineering News Section

BRIDGES

PLACERVILLE, El Dorado Co., Cal.—Until June 2, 2 P. M., new bids will be received by Arthur J. Koletzke, county clerk, to construct reinforced concrete girder bridge for the South Approach of the Colona Bridge on the South Fork of the America River. Previous bids were rejected, these being:

Geo. D. Hindnutt, Inc., Sacto.....\$2460
A. B. Hauser, Modest.....2483
H. Williamson, Placerville.....2600
J. P. Morton, Placerville.....2732
Nelson Bros., Escalon.....3400
Certified check 10% payable to clerk required with bid. Plans obtainable from Henry Lahiff, county surveyor, at Placerville.

SUTTER COUNTY, Cal.—Senate Finance Committee has recommended for passage a bill by Senator W. P. Rich, Yuba County, which appropriates \$35,000 to build a bridge across the Tidalale Weir in Sutter County. The bridge is in a county road and the appropriation was opposed by the department of finance because of this fact. Senator J. M. Inman, Sacramento, however, declared the necessity for the bridge grew out of the creation of an "artificial river" by the state in Sutter County flood control work and the county was not responsible for the bridge being needed.

SACRAMENTO, Cal.—Until May 29, 10 A. M., bids will be received by H. W. Hall, county clerk, for the sale of the Natomas Tract. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Further information obtainable from Chas. Detering, county engineer.

SACRAMENTO, Cal.—Until May 29, 10 A. M., bids will be received by H. W. Hall, county clerk, to construct the Stoll Bridge, northeast of Rio Linda. Certified check 10% payable to the Chairman of the Board of Supervisors required with bid. Plans obtainable from County Engineer Chas. Detering at Sacramento.

SAN JOSE, Santa Clara Co., Cal.—Until May 25, 8 P. M., bids will be received by C. B. Goodwin, city manager, to construct reinforced concrete bridge over Guadalupe river at Home-West Virginia Sts. Project involves 425 cu. yds. concrete. Certified check 10% payable to city required with bid. Plans obtainable from Wm. Popp, city engineer, on deposit of \$10, of which \$5 is returnable.

TRINITY COUNTY, Cal.—H. H. Boom, Hills Bldg., San Francisco, at \$19,899.95 awarded by State Highway Commission to construct reinforced concrete girder bridge over Browns Creek, consisting of one 32-ft. span on concrete abutments with wing walls. Complete list of unit and bids received on this project published in issue of May 6.

LANE COUNTY, Ore.—Until May 29 10 A. M., bids will be received by W. H. Lynch, district engineer, U. S. Bureau of Public Roads, 316 New Post-office Bldg., Portland, Ore., to construct Hill Gate Bridge over the Willamette River, Willamette Highway, Project No. 21-D-1, consisting of two

160-ft. through steel truss spans and five 45-ft. concrete tee beam spans on concrete substructure with alternate design for piles under footings, involving in the main:

- (1) 530 cu. yds. unclass. excavation for structures;
- (2) 245 cu. yds. class A concrete;
- (3) 506 cu. yds. class D concrete;
- (4) 60 cu. yds. class S concrete;
- (5) 125,000 lbs. reinf. steel;
- (6) 440,000 lbs. structural steel;
- (7) 2,000 lin. ft. untreated piling.

Plans obtainable from district engineer on deposit of \$10, returnable.

CLARK COUNTY, Nevada—Until May 20, 2:30 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, to construct reinforced concrete bridge approximately 1000 ft. long, including approaches, over the Virgin River at a point between Mesquite and Bunkerville. Plans obtainable from engineer on deposit of \$15, of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco.

SAN LUIS OBISPO COUNTY, Cal.—Until June 3, 2 P. M., bids will be received by State Highway Commission to construct a reinforced concrete girder bridge over San Marcos Creek about 7 miles north of Paso Robles, consisting of four 40 ft. spans on concrete bents and grading and paving approaches with Portland cement concrete.

ORANGE COUNTY, Cal.—R. R. Bishop, Long Beach, at \$51,718 submitted low bid May 13 to State Highway Commission to construct bridge across Santa Ana River about 2 miles north of Newport Beach, consisting of three 60-ft. 3-in. steel truss spans to be replaced with concrete girder spans and widening the reinforced concrete girder approach spans consisting of two 31-ft. 0-in. spans, eight 30-ft. 0-in. spans and two 21-ft. 0-in. spans. Complete list of bids follows:

R. R. Bishop, Long Beach.....	\$51,718
Nead Const. Co., Wilmington.....	59,947
Merritt, Chapman & Scott, San Pedro.....	64,298
Oberg Bros., Los Angeles.....	64,340
J. F. Metzger & Son, L. A.....	66,217
Owl Truck Co., Compton.....	70,763
Herbert Baruch Corp., L. A.....	72,541
R. L. Travers, L. A.....	78,783
Byert & Dunne, L. A.....	80,044

Bids held under advisement.

SANTA BARBARA COUNTY, Cal.—Neves & Hart, Santa Clara, at \$18,000 submitted low bid May 13 to State Highway Commission to remove deck of the seven 164-ft. 6-in. through steel truss spans of the bridge across the Santa Ynez River about 1 mile south of Buellton and constructing laminated timber floor and surfacing with bituminous macadam. Complete list of bids follows:

Neves & Hart, Santa Clara.....	\$18,000
Gist & Bell, Arcadia.....	19,748
Johnson Const. Co., L. A.....	23,119
Oberg Bros., Los Angeles.....	24,639

Bids held under advisement.

DREDGING, HARBOR WORKS & EXCAVATIONS

SAN FRANCISCO—Until July 9, 3 P. M., bids will be received by U. S. Engineer Office, Customhouse, for rock

removal in San Francisco Bay. Specifications obtainable from above office.

SACRAMENTO, Cal.—Bids will be asked shortly by U. S. Engineer Office, California Fruit Bldg., to construct concrete weir with apron and abutment walls near Moulton Laundry on the Sacramento River.

SACRAMENTO, Cal.—Until May 20, 3 P. M., under Circular Proposal No. 31-216, Specifications No. 2294, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, for removing approximately 2,500 cubic yards of material from Mormon Channel. Specifications obtainable from above office.

MONTREY, Monterey Co., Calif.—City votes bonds of \$32,250 to finance the purchase of shore connection and spur track facilities in connection with the proposed \$10,000 rewaterer to be constructed by the Federal Government.

SAN FRANCISCO—The American Dredging Co., 255 California St., San Francisco, at \$34 3/4 cu. yd. submitted low bid, under Specification No. 925, bids will be received by Public Works Officer, Twelfth Naval District, 100 Harrison St., for dredging approximately 26,000 cubic yards of sand and mud from the Inner Boat Harbor, and along the faces of the Long Wharf and the Oil Wharf at Yerba Buena Island, and disposing of the material in an authorized dumping ground. Complete list of bids as follows:

American Dredging Co.....	\$34 3/4
Pacific Coast Dredging Co.....	36
S. F. Bridge Co.....	40

Taken under advisement.

MACHINERY AND EQUIPMENT

FRESNO, Fresno Co., Cal.—City council plans to provide \$2,500 in budget to finance purchase of motor ambulance.

PASADENA, Cal.—Until 11 a. m., June 5, bids will be received by the Pasadena city directors for rotary air compressor for the sewage disposal plant, near Alhambra. Bids are being taken as follows:

Item 1-A One rotary type air compressor, horizontal type, connected to a 3-phase synchronous electric motor 440 volts 40 deg. C. 50 cycles unity power factor equipped with synchronizing motor field rheostat, D. C. excitation will be supplied by the city from a 125 volt D. C. bus) automatic start and stop push button station, suitable automatic reduced voltage starter or equivalent with starting KVA not to exceed 350 per cent of full load KVA of motor, one DC ammeter, 1 AC ammeter, overload and no voltage relays for automatically disconnecting motor when pulled out of synchronism, power factor indicating meter panel or bracket mounting, furnished and erected complete as per the following instructions:

Panel and starting equipment shall be assembled complete in every respect and ready to be installed by the City of Pasadena.

Item 1-B—Alternate bids are desired on duplicate of Item 1-A except that the synchronous motor shall be a 3 leading power factor.

Item 1-C—Alternative to Item 1-A except that motor shall be .8 leading power factor. Alternate bids are requested on the motor to be furnished and a selection of only one will be made.

The service is the delivery of at least 8000 cu. ft. of free air per minute at not less than 7½ nor more than 8½ pounds gauge pressure at the 16-in. longitudinal air main on the aeration tanks, under atmospheric conditions prevailing at that locality and as stated herein.

The above is to be furnished and erected in the compressor house at the Pasadena sewage disposal plant, located near the city of Glendale.

Bidder will supply full prints and specifications for any necessary starting apparatus. The city will furnish and install the necessary wiring between the switch board and the apparatus furnished.

Specifications may be obtained from the city engineer, Geo. K. Hooper, Bessie Chamberlain is the city clerk.

LOS ANGELES, Calif.—Until 11 A. M., May 19, bids will be received by city purchasing agent, Thomas Oughton, for furnishing a dust collection system, similar in type to the Cyclone Wet Chamber System, and to be installed at the San Ferando asphalt plant, 12,251 Sherman Way, under Spec. No. 2454.

SAN FRANCISCO.—Until May 25, 7:30 P. M., bids will be received by F. T. Kennedy, secretary, Fire Commission, Room 2, City Hall, for drydock, repainting of hull, scraping, wire brushing, overhauling and repairing the fireboat "Dennis T. Sullivan." Specifications obtainable from above.

SAN DIEGO, Calif.—English Const. Co., Washington, D. C., at \$145,000, item 1, complete, submitted low bid to Bureau of Yards and Docks, Navy Dept., Washington, D. C., under Spec. 6460, for floating derricks for the Navy Yard at Mare Island and the Naval Operating Base at San Diego. The work consists of two 25-ton floating steel derricks of the stiff-leg type with bull wheel having steel pontoons, steam engines, and oil burning boilers; one delivered to the Navy Yard, Mare Island, and the other to the Naval Base (Destroyer Base), San Diego. Bids were taken on alternates providing separate bidding.

(Item 1) Revolving cranes in lieu of derrick. (Item 2) Diesel engines in lieu of oil burning boilers and steam engine drive. (Item 3) Diesel-electric drive in lieu of oil burning boiler and steam engine drive. A complete list of bids will be published shortly.

RAILROADS

PHOENIX, Arizona.—Until 10 A. M., May 20, bids will be received by city commission for furnishing special work delivered at the Railway depot for the city under specifications and plans which may be seen at the office of the Superintendent of the Street Railways, Phoenix, Ariz. Bids specified by trade name the special work upon which they are bidding and state delivery date. Price to be f.o.b. Phoenix. All frogs, crossovers, switches, mates and other material entering in the manufacture of special work shall be done under the American Electric Railway Engineering Assn. Specifications, Manual W. 104-16, W. 105-26, W. 106-26, W. 107-26, W. 108-26, and W. 109-28. Certified or cashier's check on a bank payable to the city of Phoenix, in the amount of 5% of the total amount of bid, must accompany each bid. Geo. H. Todd, city manager.

FIRE ALARM SYSTEMS

SANTA BARBARA, Cal.—City defects proposal to issue bonds of \$24,000 to finance installation of a police call system, 3294 votes being in favor and 2760 against; another proposition to provide \$24,000 to finance installation of an automatic traffic signal system, also failed, 262 votes being in favor and 3079 against. A two-third's majority was required to carry the proposals.

ALAMEDA, Alameda Co., Cal.—City council will ask bids at once to re-surface tennis courts at Lincoln Park. Burnett Hamilton, city engineer.

EQUIPMENT

LIVERMORE, Alameda Co., Cal.—Pacific Fire Extinguisher Co., San Francisco, at \$2,675 awarded contract by city trustees to furnish motor pumping unit for Fire Department.

FRESNO, Fresno Co., Calif.—Until May 21, 10:30 A. M., bids will be received by H. S. Foster, city clerk, to furnish 600-ft. of 1½-in. D.J.R.L. fire hose, 400-lbs. test, and 800-ft. 2½-in. D.J.R.L. fire hose, 400-lbs. test for Fire Department. Couplings to be Pacific Coast Standard thread. Certified check 10% payable to city required with bid. Specifications on file in office of clerk.

RESERVOIRS AND DAMS

SANTA ANA, Orange Co., Calif.—Change of location of the proposed Santa Ana River Dam from the lower Prado site to the upper or Chester site, one of the modifications in the new Orange County Flood Control District report filed with the board of supervisors of Orange county April 28. A modification of cost decreases the estimate from \$16,500,000 to \$10,600,000. The estimate of cost of constructing the Chester site dam is set at \$7,215,328. The dam would be 93 ft. high and have a storage capacity of 180,000 acre feet. The report also provides for the acquisition of the Santa Ana River channel to the sea, the addition of 25 ft. to the dam being built in Santiago Canyon by the Irvine Co., the Serrano Irrigation District, and the Carpenter Water District, the increased height to cost \$498,560. Other dams proposed by the engineers are:

(1) Dam 93 ft. high with a storage capacity of 15,750 acre feet on San Juan creek, four miles above San Juan Capistrano, to cost \$1,077,980. (The earlier plan recommended \$1,187,700 for dams on San Juan and Trabuca creeks).

(2) Carbon canyon control, consisting of a dam 115 feet high above Olinda, storing 2500 acre ft. and costing \$481,500; also a channel, lined with concrete through the orchard areas, and carrying water to the Santa Ana river for spreading, this to cost \$141,882.

(3) Dam on Brea creek, above Fullerton, 73 feet high, storing 3300 acres, this dam to cost \$149,727 and enlargement of Brea channel at a cost of \$253,073; a diversion pipe leading to the old river bed southwest of Fullerton, costing \$643.

Fullerton reservoir, consisting of a dam 80 feet high, storing 700 acre feet and costing \$144,870.

The board of consulting engineers which prepared the report, consists of Thomas H. Allen, G. A. Elliott, both of San Francisco; and Prof. E. A. Etcheverry, of Berkeley.

PIPE LINES, WELLS, ETC.

SALT LAKE CITY, Utah.—Morrisson - Knudsen Co., Boise, Idaho, awarded contract by Salt Lake City at \$262,914 to construct about 7 miles of 30-in. and 36-in. welded steel pipe line. The bid was a total of \$106,024 for constructing a 30-in. pressure line and \$156,890 for constructing the 36-in. gravity line.

LOS ANGELES, Cal.—Contracts for the construction of Sections 2, 3, and 4 of the Southern Fuel Co.'s natural gas pipe line between Glendale and Kettleman Hills were tentatively awarded by the Board of Directors May 8, according to F. B. Lewis, vice-president of the Southern California Edison Co., and one of the directors of the Southern Fuel Co. Details of the proposed contracts have not been announced due to certain engineering matters which have to be considered before the basis upon which the award may be made can be worked out. The tentative recommendations of the board follow:

Section 2, 31 miles between Glendale and Castaic, and Section 4, 109 miles between Castaic and Kettleman Hills, to Macco Construction Co., 815 Ocean Ave., Clearwater and Robertson Co., 800 East 61st St., bidding together.

Section 3, 40 miles across ridge between Castaic and Grapevine, to Southern California Constr. Co., 111 Mesenger St. and Lang Transportation Co., 5501 Santa Fe Ave.

Other bidders who submitted bids on Section 3 were: M. Miller, Hutchinson Co., Bechtel & Kaiser, Claude Fisher, R. A. Wattson, and the General Engineering Co.

ABERDEEN, Wash.—Wright Const. Co., Aberdeen, at \$75,513.25 awarded contract by city council to reconstruct 3.5 miles of the Wishkah Pipe Line in connection with the municipal water system. The successful bidders will use wood pipe cut and treated in Aberdeen.

SEWERS AND SEWAGE DISPOSAL PLANTS

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, completes specifications to sewer Alameda St., bet. Bryant St. and Treat Ave. Estimated cost \$2100. Project involves:

- (a) 40 lin. ft. 15-inch V.C.P. sewer;
- (b) 6 15x-18-inch Y or T branches;
- (c) 3 3R-16 manholes.

SAN RAFAEL, Marin Co., Calif.—County supervisors declared intention (5) to construct sanitary sewer system in Homestead Valley Improvement District No. 1, involving:

- 11,103 ft. 6-in vitrified pipe;
- 4,219 ft. 8-in vitrified pipe;
- 3,683 ft. 10-in. vitrified pipe;
- 2,488 ft. 12-in. vitrified pipe;
- 746 ft. 6-in. cast iron pipe;
- 50 ft. 8-in. cast iron pipe;
- 52 ft. 8-in. concrete;
- 286 ft. 10-in. concrete piling;
- 57 manholes;
- 66 lamp-holts.

County Imp. Act 1921 and Imp. Act ham, county clerk. J. C. Oglesby, en-1911. Hearing May 13. Rob. E. Graginer, San Rafael.

LAS VEGAS, Nev.—The \$160,000 sewer bond issue carried at the election May 6. The issue provides for a sewage disposal plant and about six miles of sewer mains. The laterals will be built by assessment districts. The Benham Engineering Co., consulting engineer, is handling the engineering work and prepared the preliminary estimate.

PHOENIX, Ariz.—Until May 23, 10 a. m., bids will be received by city commissioner for construction of sewage treatment and disposal plant and lateral sewers, under the \$817,600 bond issue. Project involves: SEWAGE TREATMENT AND DISPOSAL PLANT AT SITE A

Intake Works
540 cu. yds. excavation;
7800 lbs. reinf. steel;
3000 cu. ft. concrete;
Brick bulkhead;
Mechanical bar screen;
Venturi flame recording mechanism;
Wood construction floor gratings;
Sluice gates and piping;
Screen house superstructure.

Primary Clarifier and Drainage Sump
6000 cu. yds. excavation;
45,700 lbs. reinf. steel;
16,500 cu. ft. concrete;
500 ft. 8-in. tile drain;
16 cast iron pressure relief valves;
Mechanism, influent equalizer, metal weirs, floor gratings, sump manhole frame and cover, and pipe lines.

Channel and By-Pass between Primary Clarifier and Aerator
21 cu. yds. excavation;
1100 lbs. reinf. steel;
245 cu. ft. concrete.

Floor gratings and sluice gates.
Aerator and Sludge Return

41,500 cu. yds. excavation;
857,700 lbs. reinf. steel;
214,400 cu. ft. concrete;
1230 ft. 8-in. tile drain;
12 rotating mechanisms;
6 diffuser plate units;
30 air diffuser plates;
4 precast concrete containers;
500 ft. 4-in. cast iron air supply lines, welded or flanged;
620 ft. 4-in.;
110 ft. 8-in.;
550 ft. 10-in.;

15 expansion joints;
12 12-in. circ. and 10 ft. 2 in. rect. sluice gates;
84 2-in. and 6 6-in. plug valves;
Weir plates, wood construction and floor gratings;

Secondary sludge pumping equipment and house;

600 ft. 16-in. cast iron pipe;
75 ft. 12-in. cast iron pipe;
3 16-in. gate valves;
One 12-inch gate valve;
240 ft. 8-in. cast iron pipe;
One 8-in. flap gate.

Channel Between Aerator and Secondary Clarifier

26 cu. yds. excavation;
960 lbs. reinf. steel;
200 cu. ft. concrete;
Floor gratings.

Secondary Clarifier and Drainage Sump

15,450 cu. yds. excavation;
126,000 lbs. reinf. steel;
28,200 cu. ft. concrete;
800 ft. 8-in. tile drain;
48 8-in. cast iron pressure relief valves;

One mechanism;
One influent equalizer;
Metal weirs;
Floor gratings;
Sump manhole frame and cover and Pipe lines.

Thickener
350 cu. yds. excavation;
11,250 lbs. reinf. steel;
2500 cu. ft. concrete;
One mechanism;
Pipe lines.

Digesters

2400 cu. yds. excavation;
117,000 lbs. reinf. steel;
26,000 cu. ft. concrete;
One steel stairway;

Two mechanisms;
Two gas collecting systems;
Two hot water heating systems;
Two sludge lines.

Sludge Drying Beds

2600 cu. yds. excavation;
15,900 ft. concrete;
45,100 lbs. reinf. steel;

860 ft. 6-in. vitrified drain;
2500 cu. yds. filter rock;
One conveyor crane and mechanism;
Cast iron sludge lines.

Cast House
50 cu. yds. excavation;
2300 lbs. reinf. steel;
1200 cu. ft. concrete;
Superstructure.

Power Houses and Equipment

350 cu. yds. excavation;
15,000 lbs. reinf. steel;
5000 cu. ft. concrete;
One superstructure;
One mechanical equipment;
One chlorine tank;
Crane and hoist;
Compressors;
Air supply and filters;
Sludge pumps;
Gas steam boiler;
Heat exchange and water circulating pump;
Switchboard, meters, and control equipment.

Gas Holder

100 cu. yds. excavation;
1500 lbs. reinf. steel;
650 cu. ft. concrete;
Steel gas holder.

Outfall Structures

5170 cu. yds. excavation;
5100 lbs. reinf. steel;
1650 cu. ft. concrete;
21,000 sq. ft. Gunite;
100 ft. 36-in. reinf. concr. pipe.

Miscellaneous Items

600 ft. 6-in. and 600 ft. 4-in. cast iron pipe;

100 ft. 1 1/2-in. and 200 ft. 2-in. galv. iron pipe;

575 ft. 6-in. cast iron soil pipe;
Outdoor lighting system;

600 ft. 1 1/2-in. galv. iron gas pipe;
160 ft. concrete pipe trench;

150 ft. 54-in. circ. hand, or centr. cast or monolithic or 57-inch semi-ellip. mono. sewer;

1000 ft. 36-in. reinf. concr. by-pass sewer.

TRUNK LINE SEWERS

Line M

1320 lin. ft. 54-in. circular hand made or 54-in. centrif. cast, or 54-in. circular monolithic, or 57-in. semi-elliptical monolithic reinf. concrete sewer.

Line A

2650 lin. ft. 48-in. circular hand made, or 48-in. centrif. cast, or 48-in. circular monolithic, or 51-in. semi-elliptical monolithic reinf. concrete sewer.

5290 lin. ft. 42-in. circular hand made, or 42-in. centrif. cast, or 42-in. circular monolithic, or 45-in. semi-elliptical monolithic reinf. concrete sewer.

2440 lin. ft. 39-in. circular hand made, or 39-in. centrif. cast, or 39-in. circular monolithic, or 42-in. semi-elliptical monolithic reinf. concrete sewer.

5110 lin. ft. 36-in. circular hand made, or 36-in. centrif. cast, or 36-in. circular monolithic reinf. concrete sewer.

560 lin. ft. 24-in. circular hand made, or 24-in. centrif. cast, or 24-in. circular monolithic reinf. concrete sewer.

800 lin. ft. 21-in. vitrified or 21-in. machine made concrete pipe.

350 lin. ft. 18-in. vitrified or 18-in. machine made concrete pipe.

380 lin. ft. 15-in. vitrified or 15-in. machine made concrete pipe, 19 manholes.

Line A-1

406 ft. 18-in. vitrified or 18-in. machine made concrete, one manhole.

Line B

7380 lin. ft. 36-in. circular hand made, or 36-in. centrif. cast, or 36-in. circular monolithic reinf. concrete sewer.

4020 lin. ft. 33-in. circular hand made, or 33-in. centrif. cast, or 33-in. circular monolithic reinf. concrete sewer.

2620 lin. ft. 30-in. circular hand made, or 30-in. centrif. cast, or 30-in. circular monolithic reinf. concrete sewer.

2930 lin. ft. 27-in. circular hand made or 27-in. centrif. cast, or 27-in. circular monolithic reinf. concrete sewer.

5300 lin. ft. 24-in. circular hand made, or 24-in. centrif. cast, or 24-in. circular monolithic reinf. concrete sewer.

2810 lin. ft. 21-in. vit. or 21-in. machine made concrete pipe.

1340 lin. ft. 15-in. vitrified or 15-in. machine made concrete pipe, 47 manholes.

Line B-1

1450 ft. 15-in. vitrified or 15-in. machine made concrete pipe, 4 manholes.

Line B-2

2840 ft. 12-in. vitrified or 12-in. machine made concrete pipe, 5 manholes.

Line C

6105 lin. ft. 30-in. circular hand made, or 30-in. centrif. cast, or 30-in. circular monolithic reinf. concrete sewer.

6690 lin. ft. 27-in. circular hand made, or 27-in. centrif. cast, or 27-in. circular monolithic reinf. concrete sewer.

960 lin. ft. 24-in. circular hand made, or 24-in. centrif. cast, or 24-in. circular monolithic reinf. concrete sewer.

3757 sq. yds. pavement replace.

31 manholes.

One wye branch.

LATERAL SEWERS

40,210 lin. ft. 8-in. vit. or 8-in. concr. pipe.

88 sq. yds. pavement replace.

136 ft. 6-in. vit. or 6-in. concr. pipe.

30 flush tanks.

110 wye branches.

Plans may be obtained from the city engineer upon payment of the following: for sewage treatment and disposal plant plans, \$10; trunk line sewer plans, \$20; lateral sewer plans, \$15.

The city will consider bids on each of the three sections, viz: treatment plant and disposal plant, the trunk lines and the laterals.

C. C. Kennedy, Civil Building, San Francisco, is the consulting engineer.

BERKELEY, Alameda Co., Cal.—Martin Murphy, 777 Eighth St., Oakland, at \$2650 awarded contract by city council to construct sewer in

Cragmont Ave., between Euclid and Regal Road, involving 700 lin. ft. 15-

in sewer, \$2.75; 225 lin. ft. 4-in. drain tile, \$6.01; 1 manhole, \$80; 16 cu. yds.

"A" concrete, \$15; 1 cu. yd. "B" concrete, \$15; 125 cu. yds. backfill, \$3.

Complete list of unit bids rejected on this project published in issue of April 29.

OAKLAND, Cal.—City defeats proposal to issue bonds of \$1,300,000 to finance sewer construction in various sections of the city.

MARCH FIELD, Riverside Co., Cal.—See "Government Work and Supplies," this issue. Bids wanted by Constructing Quartermaster to construct incinerator, gas, water, sewerage and electrical connections for 61 buildings and for grading, roads, walks and curbs.

MISCELLANEOUS CONSTRUCTION

LOS ANGELES, Cal.—Until 10 A. M. May 20, bids will be received by the board of public works for constructing pedestrian subway across Figueroa St. at 39th St., the subway consisting of

twin tunnels each about 102 ft. in length, of 7 ft. 3 in. by 6 ft. section, with drainage into a sanitary sewer.

The two tunnels will cost about \$16-

000. Plans were prepared by R. H. Bacon under the direction of Merrill Butler, chief bridge engineer, 6th floor City Hall.

WATER WORKS

MARTINEZ, Contra Costa Co., Cal.—City Engineer Ben Greene preparing estimates of cost for development of water system including a steel storage tank on Thomas Hill adjoining the city's concrete reservoir.

MARCH FIELD, Riverside Co., Cal.—See "Government Work and Supplies," this issue. Bids wanted by Constructing Quartermaster to construct incinerator, gas, water, sewerage and electrical connections for 61 buildings and for grading, roads, walks and curbs.

HONOLULU, T. H.—Bids will be asked shortly by the Constructing Quartermaster, Fort Mason, San Francisco, for water softener plant for Honolulu. Will have capacity of 75,000 gallons. Further mention will be made of this work when a date for opening bids is determined.

EUREKA, Humboldt Co., Ca.—Halsby & Lax, Eureka, at \$1388 awarded contract by city council to construct four filter tanks at Hawthorne and Broadway for Municipal Water Department. Complete list of bids follow:
Halsby & Lax\$1388
A. C. Johnson 1684
Northern R. W. Lumber Co. 1756
E. D. Gardner, city engineer, estimated the cost at \$1200.

DENVER, Colorado—Stearns-Rogers Mfg. Co., 1750 California St., Denver, awarded contract by U. S. Bureau of Reclamation at \$1,174.50 for three motor-driven centrifugal pumps, each having a discharge capacity of 550 G. P. M. when operating against a total effective head of 115 ft.

ST. HELENA, Napa Co., Cal.—Until May 21, 3 P. M. bids will be received by J. G. Finch, city clerk, to furnish six inch cast iron pipe and connections; also lay pipe line from Pond's Well west of Calistoga. Bonds of \$15,000 recently voted to finance this work. Specifications on file in office of clerk.

EXETER, Tulare Co., Cal.—Until May 25, 5 P. M. bids will be received by T. E. Awbery, city clerk, for
(1) One 200,000-gallon stand pipe;
(2) trenching and backfilling for approximately 4,700 lin. ft. of 4, 6 and 8-in. pipe;
(3) furnish and install approximately: 1,850 ft. 4-in. pipe
2,700 ft. 6-in. pipe
300 ft. 8-in. pipe
7 fire hydrants
60 service connections with gate valves and other appurtenances
(4) Painting 200,000-gallon stand pipe. Certified check 5% payable to Mayor required with bid. Further information obtainable from clerk.

OKADALE, Stanislaus Co., Cal.—City Clerk Clarence Wood has been authorized by the Okadale city council to secure information as to the cost of a 100,000-gallon tank to provide additional water pressure for fire protection.

NEVADA CITY, Nevada Co., Cal.—City Council will call election May 28 to decide on diversion of \$2000 swimming pool bond funds to improve water system and the remaining \$8000 on the improvement of streets.

MANTECA, San Joaquin Co., Cal.—Members of the Nile Garden Farm Bureau Center have placed themselves on record against the use of pumps as a solution to the drainage problem of the South San Joaquin Irrigation District.

PLAYGROUNDS & PARKS

MANTECA, San Joaquin Co., Cal.—E. C. Woodruff, president of the Manteca District Chamber of Commerce and D. W. Brownell, chairman of the Park Committee of that organization, have submitted plans to the city council for improvements at the city park site. Plans provide for planting 50 shrubs and 28 trees. The work will be financed by private subscription.

ALAMEDA, Alameda Co., Cal.—Until May 19, 8 P. M., bids will be received by W. E. Varcoe, city clerk, for resurfacing south tennis court at Lincoln Park. Certified check, 10% payable to city required with bid. Plans on file in office of clerk. Burnett Hamilton, city engineer.

OAKLAND, Cal.—City defeats proposal to issue bonds of \$275,000 to finance public park and playground developments.

STREETS AND HIGHWAYS

SALINAS, Monterey Co., Calif.—James L. Conner, 1221 9th St., Monterey, at \$7,600 awarded contract by county supervisors to grade portion of River Road in Supervisor District No. 3, involving 45,000 cu. yds. roadway excavation and 40,000 sta. yds. overhaul. Following is complete list of bids:
James L. Conner, Monterey\$ 7,600
George G. Wood, Santa Cruz 8,700
A. E. Hauser 9,150
L. W. Hess 9,800
Granite Construction Co. 10,120
Watsonville 10,120
Lee J. Immel, Oakland 11,100
Carl W. Heple 11,200
O. A. Dontanville, Salinas 12,100
Owl Truck Co. 12,847
Steele Finley, Santa Ana 13,450

QUINCY, Plumas Co., Calif.—M. A. Jenkins, 3550 Y St., Sacramento, at \$7,372.57 awarded contract by county supervisors for 20,800 sq. ft. 6-in. cement concrete pavement, including grading. R. D. Tucker, Quincy, at \$5,158.75, only other bidder.

SAN BERNARDINO COUNTY, Cal.—Until June 3, 2 P. M., bids will be received by State Highway Commission to grade and pave with asphalt concrete, 2.2 miles through Upland.

MINERAL COUNTY, Cal.—Until May 20, 2 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, for grading, con-

structing structures and placing gravel surface on 10.42 miles between Hawthorne and Dutch Creek. Plans obtainable from engineer on deposit of \$15, of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco.

MONO COUNTY, Cal.—Until June 2, 2 P. M., bids will be received by State Highway Commission to grade and surface with bituminous treated crushed gravel or stone, 12.3 miles between Yerbys and Casa Diablo Hot Springs.

SAN BENITO - SANTA CLARA COUNTIES, Cal.—Until June 3, 2 P. M., bids will be received by State Highway Commission to grade and surface with bituminous treated crushed gravel or stone surface, 4.7 miles between 3.2 miles north of Hollister and Pacheco Pass Road.

CALAVERAS COUNTY, Cal.—Until June 3, 2 P. M., bids will be received by State Highway Commission for surface treatment on 15.5 miles between Murphys and Big Trees.

SISKIYOU COUNTY, Cal.—Until June 3, 2 P. M., bids will be received by State Highway Commission to apply to existing roadbed bituminous surface treatment on 7.0 miles between 1.5 miles north of Yreka and the Klamath River.

WHITE PINE COUNTY, Nevada.—W. K. McMillan, 2088 Howard St., San Francisco, at \$80,645.65 submitted low bid May 7 to C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, San Francisco, for grading 9.620 miles of Section A of Route 13, Midland Trail (Ely-Holt Creek) National Forest Highway, Nevada National Forest and Federal Lands Project No. 1, part of Midland Trail (Ely-Tonopah) State Route No. 4, White Pine County, Nev. Project involves: 124,000 cu. yds. unclassified excav.; 1451 cu. yds. unclass. excav. for struc. 10,800 sta. yds. overhaul; 9,620 miles finishing earth graded rd.; 133.2 cu. yds. class A concrete; 110.2 cu. yds. class B concrete; 12,350 lbs. reinforcing steel; 102 cu. yds. cement rubble masonry; 3,246 lin. ft. C. M. pipe; 300 lin. ft. move fence; 28 each right-of-way monuments; 200 cu. yds. hand laid rip-rap.

Complete list of bids follows:
W. K. McMillan, S. F.\$ 80,645
C. G. Willis & Son, L. A. 95,508
Nevada Contracting Co., Fallon Nevada 101,947
Wheelwright Const. Co., Ogden, Utah 121,781
Dodge Bros., Inc. 129,551

EUREKA, Humboldt Co., Cal.—City council rejects bids to construct concrete sidewalk fronting Municipal Railway property at Harris and J Sts.

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF

Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

CREAR & BATES

**57 Zoe St., bet. 3rd and 4th, off Brannan St.
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Bids were: L. H. Langdon, \$118; J. R. Morgan, \$131. Estimate of City Engineer E. B. Gardner, \$750.

OAKLAND, Calif.—U. B. Lee, 8 8 8
Rodney St., Oakland, at \$11,302 submitted low bid to city council to improve portions of Plymouth St., 99th Ave., and Cherry Sts. See separate unit bid listing on page five of this issue.

OAKLAND, Calif.—Heafey-Moore Co.
344 High Street, Oakland, at \$11,744 awarded contract by city council to improve Hopkins St. bet. High St. and 55th Ave. and portions of High St., etc., involving 35,000 sq. ft. 7-in. to 9-in. concrete pavement, curbs, walks, etc. Complete list of unit and total bids reported in issues of May 8 and 15.

OAKLAND, Calif.—U. B. Lee, 8 8 8
Rodney St., Oakland, at \$11,302 awarded contract by city council to improve portions of Plymouth St., 99th Ave., and Cherry St., involving grading, curbs, gutters, macadam pavement, etc. Complete list of unit and total bids received published in issues of May 8 and 11.

SAN JOSE, Santa Clara Co., Cal.—
Until May 25, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve Hillsdale Ave. from the San Jose-Almaden Road to Monterey road south of Schitzen Park, involving macadam pavement. Plans obtainable from County Surveyor Robt. Chandler on payment of \$1.

SAN DIEGO COUNTY, Cal.—
Until June 4, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 451 Market St., San Francisco, for applying oil and processing the existing roadway surface on Sections A and B of Ioute 73, Laguna National Forest Highway in Cleveland National Forest 11.063 miles in length, involving:

- (1) 263,500 gals. furnish and apply fuel oil;
- (2) 11,081 miles mixing old treated roadway surface;
- (3) 80 tons furnish and apply asphaltic oil;
- (4) 350 cu. yds. decomposed granite for seal coat.

Specifications obtainable from engineer on deposit of \$10, returnable, check for same to be made to Federal Reserve Bank of San Francisco.

EL DORADO COUNTY, Cal.—
Until May 25, 2:30 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, for placing additional crushed gravel or stone and treating with cutback asphalt by road mix method, 5.4 miles between Clark's Corner and Placerville.

EUREKA, Humboldt Co., Cal.—
Until May 19, 5 P. M., bids will be received by John Griffith, city superintendent of public works, 524 D St., to construct concrete sidewalk in Harris St. between J and K Sts., and in J St., between Wood and Harris Sts. Certified check 10% payable to city required with bid. Specifications obtainable from above.

NAPA, Napa Co., Cal.—
Until May 25 7:30 P. M., bids will be received by H. H. Thompson, city clerk, (539) to improve 8th St. bet. River St. and Soscol Ave. involving grading, concrete curbs, two-course emulsified asphalt macadam pavement, 46-ft. wide. 1911 Act. Certified check 10% payable to city required with bid. Plans obtainable from H. Harrold, city engineer.

ALPINE COUNTY, Calif.—
Esault Rock Co., Napa, at \$2,822.50 awarded contract by State Highway Commission to treat with light and heavy fuel

oil, 10.16 miles, between Hangman's Bridge, approximately 2 miles south-east of Markleville and the State Highway Cam, approximately 2 miles northwest of Woodfords.

PLACER COUNTY, Cal.—
Fredrickson & Watson and Fredrickson Bros., 354 Hobart St., Oakland, at \$147,585.02 awarded contract by State Highway Commission to grade and pave with cement concrete, 1.4 miles between Wise Power House and Auburn. A complete list of the unit and total bids on this project published in issue of May 12.

MARCH FIELD, Riverside Co., Cal.—
See "Government Work and Supplies," this issue. Bids wanted by Contracting Quartermaster to construct incinerator, gas, water, sewerage and electrical connections for 61 buildings and for grading, roads, walks and curbs.

MONTEREY, Monterey Co., Calif.—
City votes bonds of \$22,500 to finance purchase of property required to extend Alvarado Street and for clearing Booth Cannery warehouse site.

SANTA CRUZ COUNTY, Calif.—
C. W. Wood, Stockton, at \$42,100 submitted low bid to the State Highway Commission May 13 to grade and surface with crusher run base and pave with bituminous macadam 1 mile bet. 1 mile north of Santa Cruz and Santa Cruz. Complete list of bids follows:
C. W. Wood, Stockton..... \$42,120
Nevada Contracting Co., Watsonville 42,739
J. L. Conner, Monterey..... 43,737
I. L. Rider, San Jose..... 45,485
Healy-Tilbitts Const. Co., S. F. 48,486
Contoules Const. Co., S. F. 48,529
Granfield, Farrar & Carlin, S. F. 50,558
Ariss-Knapp Co., Oakland..... 52,998
W. H. Hauser, Oakland..... 64,073
Bids held under advisement.

ELKO COUNTY, Nev.—
Until July 1, 2 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, for grading, construction of structures and piling, surfacing between east foot of the Penups and 4 miles east of Silver Zone, a distance of 16.82 miles.

Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from the engineer on deposit of \$15, of which \$10 is returnable. Certified check 5% required with bid.

CLARK COUNTY, Nev.—
Until July 1, 2:30 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, to furnish, apply and mix asphaltic fuel oil with the roadway surface between the west slope of Mormon Mesa and the Lower Virgin River Bridge, a distance of 19.68 miles.

Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from

the engineer on deposit of \$15, of which \$10 is returnable. Certified check 5% required with bid.

DOUGLAS COUNTY, Nevada—
Until July 1, 3 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, for furnishing, applying and mixing asphaltic fuel oil with the roadway surface between Gardnerville and 5 miles east of Holbrook, a length of 19.06 miles.

Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from the engineer on deposit of \$15, of which \$10 is returnable. Certified check 5% required with bid.

HUMBOLDT COUNTY, Nev.—
Until July 1, 3:30 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, for furnishing, applying and mixing asphaltic fuel oil with the roadway surface between Winnemucca and 6 miles west of Stonehouse, a distance of 27.2 miles.

Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from the engineer on deposit of \$15, of which \$10 is returnable. Certified check 5% required with bid.

MARIPOSA COUNTY, Calif.—
Until May 25, 2 P. M., bids will be received by E. E. Wallace, district engineer, State Highway Commission, P. O. Box 1353, Fresno, to cover with a bituminous surface treatment consisting of asphaltic road oil and screenings, 12.5 miles between Loresnes on the Briceburg grade and El Portal.

MARIPOSA COUNTY, Cal.—
No bids received May 11 by E. E. Wallace, district engineer, State Highway Commission, P. O. Box 1353, Fresno, to treat with heavy fuel oil as a dust palliative 11.8 miles in Mariposa county, between Mariposa and Loresnes on the Briceburg grade.

FRESNO-KERN COUNTIES, Cal.—
Until May 25, 2 P. M., bids will be received by E. E. Wallace, district engineer, State Highway Commission, P. O. Box 1353, Fresno, to treat with light fuel oil as a dust palliative, 15.4 miles in Fresno county, between the west boundary and 2 miles east of Parkfield Junction and in Kern county, 8.2 miles between the west boundary and 2 miles west of Maricopa.

SACRAMENTO, Cal.—
County supervisors declare intention (1931) to improve portions of N B Street, involving grading; asphalt macadam pavement, consisting of 5-in. crushed rock base course with 2-in. asphaltic macadam surface. Work under County Improvement Act 1921. Hearing May 23. Harry W. Hall, county clerk. Chas. Deterding, county engineer.

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ANTIOCH, Contra Costa Co., Cal.—Until June 8, 2 P. M., bids will be received by J. C. McEhney, city clerk, to improve streets in the Wills Addn., involving (approximately):
326,930 sq. ft. grading;
143,551 sq. ft. 5-in. concrete pave.;
10,613 ft. 4- to 8-in. vit. clay sewers;
6,500 ft. 4- to 10-in. cast iron water pipe.
1911 ct. Bond Act 1915. Certified check 10% payable to Town of Antioch required with bid. Plans obtainable from E. L. O'Hara, city engineer.

HEALDSBURG, Sonoma Co., Cal.—A Helwig Const. Co., Sebastopol, at \$3,950,240 awarded contract by the city trustees to surface various streets.

Lodi, San Joaquin Co., Cal.—R. H. Crumney, Hotel, San Francisco, at \$61,297 submitted low bid to city council to improve Cherokee Lane, involving grading, cement concrete paving. See separate unit and total bid listing on page five of this issue.

LASSEN AND MODOC COUNTIES, Cal.—Hemstreet & Bell, Marysville, at \$129,646 awarded contract by State Highway Commission to surface with bituminous treated crushed gravel or stone, 24.5 miles between Hillside and Rush Creek. Complete list of unit and total bids received on this project published in issue of May 6.

EL DORADO COUNTY, Cal.—Finneel Co., 1620 39th St., Sacramento, at \$52,593.55 awarded contract by State Highway Commission to grade and surface with crusher base and untreated crushed gravel or stone, 1.7 miles between Placerville and the Railroad Crossing. Complete list of the unit and total bids on this project published in issue of May 6.

MODOC COUNTY, Cal.—Hartman Construction Co., Box 1697, Bakersfield, at \$134,875 awarded contract by State Highway Commission to surface with bituminous treated gravel or stone, 23.8 miles between Rush Creek and Hot Creek. Complete list of unit bids received on this project published in issue of May 6.

ORANGE COUNTY, Cal.—John & Bressi, 208 West 5th St., Los Angeles, at \$282,107 awarded contract by State Highway Commission to grade and pave with cement concrete and asphalt concrete, 5.5 miles between San Mateo Creek and Serra. Complete list of unit and total bids published in issue of May 6.

SONOMA, Sonoma Co., Cal.—City trustees plan to improve all un-paved streets and construct extensions to sewer system. The cost of paving is estimated at \$11,500.

NEVADA CITY, Nevada Co., Cal.—City Council will call election May 28 to decide on diversion of \$2000 swimming pool bond funds to improve water system and the remaining \$8000 on the improvement of streets.

SISKIYOU COUNTY, Cal.—Dunn & Baker, Klamath Falls, Ore., at \$74,944 awarded contract by U. S. Bureau of Public Roads, to grade 9.913 miles of Section "A" of Route 10. Weed-Medicine Lake National Forest Highway in Shasta National Forest, involving: 61 acres clearing; 130,000 cu. yds. unclass. excav.; 754 cu. yds. unclass. excavation for structures; 71,000 sta. yds. overhaul; 9,905 miles finishing earth graded road; 80 cu. yds. class A concrete; 40 cu. yds. class B concrete; 78 cu. yds. class D concrete; 19,000 lbs. reinforcing steel; 2504 lin. ft. corr. galv. metal; 64 r. w. monuments. Complete list of unit bids re-

ceived on this project published in issue of April 17.

ALAMEDA, Alameda Co., Cal.—Until May 19, 8 P. M., bids will be received by W. E. Varcoe, city clerk, for resurfacing south tennis court at Lincoln Park. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

SAN JOSE, Santa Clara Co., Cal.—Until May 18, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve the Alviso-Milpitas Road in Supervisor District No. 3, involving 131,975 sq. ft. 5-in. asphaltic concrete pavement. Plans obtainable from County Surveyor Robert Chandler on payment of \$1.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd floor City Hall, complete specifications to improve De Long street between Crizaba Avenue and Head street. Estimated cost \$1,100. Project involves:
2400 cu. yds. excavation;
950 yds. embankment;
990 lin. ft. armored conc. curb.
6340 sq. ft. 1-cOURSE conc. sidewalk;
2 brick catch basins;
62 lin. ft. 10-in. VCP culverts.
226 lin. ft. 8-in. VCP sewer;
629 lin. ft. 12-in. VCP sewer;
4 brick manholes;
9 8x6 V or T branches;
33 12x6 V or T branches;
370 lin. ft. 6" VCP steel sewers;
11 cu. yds. Class B 2500 lb. concr. in stairways;
300 lbs. bar reinf. steel in stairways;
105 lin. ft. 2x8 Redwood headers;
17,200 sq. ft. asph. concr. pavement,
2" asph. concr. wearing surface
6" Class "F" concr. base.

SAN FRANCISCO—Until May 21, 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason, for repairs to roads at Fort Funston. Specifications obtainable from above. (\$500)

SAN LUIS OBISPO COUNTY, Cal.—W. A. Dontanville, Salinas, at \$1,609.65 submitted low bid May 8 to L. H. Gilson, district engineer, State Highway Commission, Bank of Italy Bldg., San Luis Obispo, for treating with heavy fuel oil as a dust palliative, 1.5 miles between San Simeon and Piedras Blancas Lighthouse.

MENDOCINO COUNTY, Cal.—Until May 21, 2 P. M., bids will be received by F. W. Hazelwood, district engineer, State Highway Commission, 546 Wabash Ave., Eureka, to surface with untreated crushed gravel or stone, 2.1 miles between Piercy and the north boundary.

CALAVERAS COUNTY, Cal.—As previously reported bids will be received June 3, 2 P. M., by State Highway Commission for surface treatment in 15.5 miles between Murphys and Big Trees. Project involves:
(1) 207 bbls. fuel oil;
(2) 456 tons asphaltic road oil;
(3) 3640 cu. yds. coarse screenings;
(4) 196 cu. yds. medium and fine screenings.
The State will furnish screenings.

DOUGLAS-ORMSBY COUNTIES, Nev.—Until May 25, 3 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, to reconstruct and oil portion of state highway in Douglas and Ormsby counties, from Spooner's to the County Hospital a length of 10.42 miles. Specifications on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtained from engineer without charge. Certified check 5% required with bid.

MONO COUNTY, Cal.—As previously reported, bids will be received June 3, 2 P. M., by State Highway Commission to grade and surface with bituminous treated crushed gravel or stone, 12.2 miles between Yerbas an Casa Diablo Hot Springs. Project involves:

- (1) 260,000 cu. yds. rdwy. excav without class;
- (2) 1,000,000 sq. yds. overhaul;
- (3) 12,000 cu. yds. imported borrow;
- (4) 1500 cu. yds. structure excavation;
- (5) 27,500 tons crusher run base;
- (6) 22,340 tons bitum. treated crushed gravel or stone surfacing;
- (7) 4000 cu. yds. binder for sub-grade;
- (8) 255 cu. yds. class A Portland cement concrete (structures);
- (9) 22,000 lbs. bar reinf. steel (structures);
- (10) 30 lin. ft. 12-in. corr metal pipe
- (11) 2884 lin. ft. 18-in. corr. metal pipe
- (12) 725 lin. ft. 24-in. corr. metal pipe
- (13) 150 lin. ft. 30-in. corr. metal pipe
- (14) 50 lin. ft. 36-in. corr. metal pipe
- (15) 258 lin. ft. 12-in. perforated metal pipe underdrains;
- (16) 180 lin. ft. part circle corr. metal pipe.
- (17) 3200 M. gals. water applied to subgrade;
- (18) 08 mile moving and resetting property fences;
- (19) 2 miles new property fences;
- (20) 802 lin. ft. salvaging existing culverts;
- (21) 2 ea. removing concrete bridges;
- (22) 651 stations finishing roadway;
- (23) 125 ea. monuments complete in place.

State will furnish corrugated metal pipe and part circle corrugated metal pipe.

AMADOR COUNTY, Cal.—Until May 25, 2 P. M., bids will be received by R. E. Pierce, district engineer, State Highway Commission, 502 State Office Bldg., Sacramento, for bituminous surface treatment on 2.7-miles between Drytown and Amador City.

SAN BERNARDINO COUNTY, Cal.—As previously reported, bids will be received June 3, 2 P. M., by State Highway Commission to grade and pave with asphalt concrete, 2.2 miles through Upland. Project involves:

- (1) 9300 cu. yds. rdwy. excav. without class;
- (2) 15,000 sta. yds. overhaul;
- (3) 6100 cu. yds. imported borrow;
- (4) 3720 cu. yds. structure excav.;
- (5) 18,000 sq. yds. subgrade for pavement.
- (6) 23,000 sq. yds. asphaltic paint binder;
- (7) 16,100 tons asphalt concrete;
- (8) 620 cu. yds. class A Portland cement concrete (structures);
- (9) 714 cu. yds. class A Portland cement concrete (curbs);
- (10) 67,000 lbs. reinforcing steel;
- (11) 220 lin. ft. 12-in. corr. metal pipe
- (12) 80 lin. ft. 18-in. corr. metal pipe
- (13) 168 lin. ft. 24-in. corr. metal pipe
- (14) 152 lin. ft. 36-in. corr. metal pipe
- (15) 132 lin. ft. part circle corrugated metal pipe;
- (16) 645 cu. yds. rubble masonry wall
- (17) 624 lin. ft. laminated timber guard rail;
- (18) 0.3 mile moving and resetting property fences;
- (19) 503 cu. yds. concr. in existing pavement and structures to be removed;
- (20) 115 stations finishing roadway;
- (21) 28 ea. monuments complete in place;
- (22) readjusting private improvements
- (23) 2500 lbs. drop inlet covers, frames

State will furnish corrugated metal pipe and part circle pipe.

SISKIYOU COUNTY, Cal.—As previously reported, bids will be received May 2, 2 P. M., by State Highway Commission to add to existing road bituminous surface treatment on 6 miles between 1.5 miles north ofureka and the Klamath River. Project involves:

- 1) 370 tons cut-back asphalt;
- 2) 610 gallons mixing cut-back asphalt and surfacing material.

NEVADA STATE—S. C. Durkee, State Highway Engineer of Nevada, has made an announcement of interest to all contractors bidding on this highway work in Nevada, as follows:

Your attention is respectfully directed to the attached copy of amendments to the General Highway Law enacted by the 1931 State Legislature, and amendments being approved on March 27, 1931, and will become effective on May 25, 1931.

You will note under Section 14 that all contractors desiring to bid on State Highway work must prequalify before the Department can furnish you with plans and specifications.

The Highway Department has prepared a questionnaire entitled "Contractors' Statement of Experience and Financial Condition." These questionnaires may be secured through the office of the undersigned. The Highway Department has ruled that the questionnaire form must be completely filled in and filed in the office of the undersigned at least 30 days prior to the opening of bids on all State Highway projects.

As the law becomes effective on May 25, it is suggested that you immediately write this office for a copy of the questionnaire form.

S. C. DURKEE, State Highway Engineer.

NEVADA CITY, Nevada Co., Cal.—Until June 1, 10 A. M., bids will be received by R. N. McCormack, county clerk, to reconstruct county road between Grass Valley and Bear River, via Empire Mine, Peardale and Chicago Park, a distance of 9.84 miles; road to be graded 20-ft. in width, with a crusher run base and a bituminous macadam surface, 16-ft. in width involving:

- (1) clearing right of way 5.10 acres and 439 stations, 34,800 cu. yards roadway excavation;
- (2) 1,200 cu. yds. crusher run base;
- (3) 5,250 cu. yds. crushed rock to be salvaged;
- (4) 3,558 tons broken stone (bituminous macadam surface);
- (5) 289 tons emulsified asphalt;
- (6) 525 barrels light fuel oil;
- (7) 4,574 lin. ft. 8-in. to 36-in. corr. metal pipe;
- (8) 1.13 miles property fence.

Work under Acq. and Imp. Act 1925. Certified check or bond 10% payable to County of Nevada required with bid. Plans on file in office of clerk and obtainable from J. F. O'Connor, engineer, Commercial Building, Grass Valley, on deposit of \$10, not returnable.

involves concrete curb, \$75 lin. ft.; concrete walks, 1,815 sq. ft.; cement concrete pavement, including grading, \$23 1/2 sq. ft.; catchbasins, 360 each; remove portion and reconstruct front of firehouse, \$300.

MONTEREY, Monterey Co., Cal.—City Council declares intention (3128) to improve Teresa street, between Monroe and Harriet Sts., and between Clay and High Sts., involving grading, 771 sq. ft. asphalt concrete pavement with 1 1/2-in. asphalt concrete surface; curbs, gutters, sidewalks, 14 1/2-in. house connection sewers, 1911 Act, Bond Act 1915. Hearing May 26. Clyde A. Dorsey, city clerk.

MINERAL COUNTY, Nev.—As previously reported, bids will be received May 20, 2 P. M., by State Highway Engineer, Carson City, for grading, constructing structures and placing gravel surface on 10.42 miles between Hawthorne and Dutch Creek. Project involves:

- (1) 53,300 cu. yds. roadway excav.;
- (2) 1,900 cu. yds. structure excav.;
- (3) 20,200 cu. yds. selected borrow excavation in place;
- (4) 75,908 yds. sta. overhaul;
- (5) 10,42 miles prepare subgrade and shoulders;
- (6) 53,300 cu. yds. crushed rock or crushed gravel surface in place;
- (7) 500 cu. yards crushed gravel or crushed rock in stockpile;
- (8) lump sum, furnish water equip.;
- (9) 2256 M. gals. apply water;
- (10) 83 cu. yds. class B concrete in place;
- (11) 972 lin. ft. 18-in. corrugated metal pipe in place;
- (12) 800 lin. ft. 24-in. do.;
- (13) 220 lin. ft. 36-in. do.;
- (14) 46 monuments in place;
- (15) 10.42 miles finishing roadway;
- (16) 650 lin. ft. remove & reconstruct fence.

Plans obtainable from engineer on deposit of \$15, of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco.

CLARK COUNTY, Nevada—As previously reported, bids will be received May 20, 2:30 P. M., by S. C. Durkee, state highway engineer, Carson City, to construct reinforced concrete bridge approximately 1000 ft. long, including approaches, over the Virgin River at a point between Mesquite and Bankerville. Project involves:

- (1) 8300 cu. yds. roadway excav.;
 - (2) 2000 cu. yds. structure excav.;
 - (3) 75,604 yds. sta. overhaul;
 - (4) 1260 cu. yds. class A concrete in place;
 - (5) 1775 cu. yds. class D concrete in place;
 - (6) 1 corr. metal pipe culvert extension in place;
 - (7) 1504 lin. ft. standard timber guard rail in place;
 - (8) 8 monuments in place;
 - (9) 2 furnish and install posts for F. A. markers;
 - (10) 425 mile finishing roadway;
 - (11) 490,700 lbs. reinf. steel in place;
 - (12) 1,100 lbs. expansion rockers and plates in place;
 - (13) 7058 lin. ft. furnish timber piles.
- Plans obtainable from engineer on deposit of \$15, of which \$10 is returnable. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco.

BURLINGAME, San Mateo Co., Cal.—Until May 18, 8 P. M., bids will be received by J. R. Murphy, city clerk, to improve Newhall Road for its full length, involving:

- (1) 35 stumps, 1 ft. and under, remove;
 - (2) 33 stumps, over 1 ft., remove;
 - (3) 20 trees, 1 ft. and under, remove;
 - (4) 14 trees, over 1 ft., remove;
 - (5) 3 cutting concrete pedestals below subgrade;
 - (6) 2 remove brick fillers;
 - (7) 216 ft. 4-in. vit. pipe sewer;
 - (8) 1 "Y" branch;
 - (9) 9 install conn. and raise man-holes;
 - (10) 3700 cu. yds. excavation;
 - (11) 11,550 sq. ft. 6-in. waterbound macadam paving;
 - (12) 35,560 sq. ft. 2-in. asphalt;
 - (13) 60 ft. 10-in. concrete drain;
 - (14) 2 head walls;
 - (15) 1 catchbasin;
 - (16) 355 sq. ft. sidewalks (macadam);
 - (17) 1,200 sq. ft. 3-in. rock top;
 - (18) 5500 sq. ft. 6-in. rock shoulders;
 - (19) 65 ft. 6-in. conc. curb returns;
 - (20) 8 cu. yds. concrete encasement.
- Plans on file in office of clerk.

ELKO COUNTY, Nevada.—Nevada Rock & Sand Co., Reno, at \$60,094.92 awarded contract by State Highway Commission to reconstruct 16.86 miles between 4 miles east of Silver Zone and Wendover. Engineer's estimate, \$79,601.26. Other bidders: Utah Const. Co., Ogden, Utah, \$61,698.92; Wheelwright Const. Co., \$65,425.77 and Dodge Bros., Fallon, Nev., at \$67,176.62, were other bidders. Quantities of materials published in April 30th issue.

YUBA CITY, Sutter Co., Cal.—S. M. McGaw, 425 Lexington Ave., Stockton, at \$13,100 awarded contract by the city council to widen Plumas St. between Reeves and Forbes Avenues. Project

BUSINESS OPPORTUNITIES

T. W. Thompson, 137 Palm Avenue, San Francisco, wants specialty work on distribution in the Northwest and South, on commission basis.

Harold L. Herzfelder, 114 W 86th St., New York City, offers connections for local concern desiring representation.

Paul Kaven, 960 S Oxford Avenue, Los Angeles, Calif., general Pacific Coast agent for the distribution of a self-timing device, wishes to secure an agent for this district.

H. A. Wright, Sales Mgr., Multi-soft Co., 31 St. James Ave., Boston, Mass., with sorting methods and equipment wishes to secure representation in this territory.

The Vital Mfg. Co., 7500 Quincy Avenue, Cleveland, Ohio, manufacturers of automatic glazing and caulking gun wish to get in touch with party to handle their product.

Lambert Friedl, 1900 Euclid Ave., Cleveland, Ohio, wishes to act as sales representative in Ohio and Michigan for reliable, well-rated manufacturers.

C. A. Slocum, vice-president, Shine-en Products Corp., 110 N Franklin St. Chicago, Ill., manufacturers of polish cloths both for furniture and automobiles wish representation in this territory.

The Hamilton Mfg. Co., Dallas, Tex., manufacturers of vegetable spray stand wish list of businesses who might be interested in handling their line.

John G. Hooven, Drexel Bldg., Philadelphia, Pa., wishes to contact local firm with view to representation.

W. O. Lochner, secretary, Trenton Chamber of Commerce, Trenton, N. J., represents company wishing sales agency or manufacturers representatives that call on the ceramic, rubber, paint painter and other clay-making industries. 31

F. M. Snook, 1642 Larkin St., San Francisco, experienced in specialty sales work, desires to represent local firms.

Homer G. Bulkley, sales manager for Foster Bros. Mfg. Co., Utica, N. Y., manufacturers of metal beds, cribs, day beds, cots, couches, etc., desires to secure outlet on the Pacific Coast for such products, preferably through a commission salesman who will sell goods in car lots for direct shipment out of Utica.

H. S. Glasby, assistant sales manager, The Acme Wire Co., New Haven Conn., manufacturers of commodities used in the electrical field, desires to secure Pacific Coast distributors for that company's products.

Orders for lumber received during the week ended May 2 equaled production, it is indicated in reports from 77 leading hardwood and softwood mills to the National Lumber Manufacturers' Association. Shipments of these mills were 10 per cent above their combined production for the week.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
690	Meade	Kappela	4000
691	Ghielmetti	Owner	2000
692	Temple	Owner	1000
693	Brandt	Owner	1000
694	Heyman	Owner	4500
695	Meyer	Owner	4000
696	Earbee	Owner	3500
697	Ponzo	Frank	1000
698	Janssen	Owner	5000
699	Christensen	Elkington	5000
700	Bendon	Owner	5500
701	Regal	Owner	2500
702	S F	Cahill	20000
703	Bargenes	Owner	125000
704	Galli	Owner	16000
705	Kraeft	Owner	1500
706	Elmfeld	Owner	4500
707	Christensen	Owner	20000
708	Wesendunk	Owner	8000
709	Stanley	Owner	9000
710	Herzig	Owner	20000
711	Koestler	Owner	3000
712	Gruhke	Linder	1000
713	Parente	Owner	1000
714	Scanlon	Sullivan	2000
715	Loupe	Malloch	7000
716	Costello	Owner	3500
717	Costello	Owner	3500
718	Hanson	Owner	3400
719	Leonard	Owner	3000
720	Nelson	Owner	5000
721	Dickman	Wright	3500
722	Stanley	Owner	9000
723	Wester	Hammer	9000

DWELLING
(690) S THORNTON 125 E. Vesta. One-story and basement frame dwelling.
Owner—M. J. Meade.
Architect—Not Given.
Contractor—Kappela Bros., 148 Per-cita Ave., San Francisco. \$4000

DWELLING
(691) SE BRUSSELS AND WARD. One-story and basement frame dwelling.
Owner—C. Ghielmetti, 463 Girard St., San Francisco. \$2000
Plans by Owner.

ALTERATIONS
(692) NO. 463 THIRD. Alter restau-rant.
Owner—Firmir Temple, 1039 Mission St., San Francisco.
Architect—Not Given. \$1000

STORE
(693) W SAN BRUNO AVE. 100 N Faith; one-story frame store.
Owner—C. Brandt, 2829 Mission St. Plans by S. Wolff. \$1000

DWELLING
(694) NE DARTMOUTH and Silver; one-story and basement frame dwelling.
Owner—Heyman Bros., 742 Market St. Plans by Owner. \$4500

DWELLING
(695) SW TERESITA 58 NW Repos;a; one-story and basement frame dwelling.
Owner—Meyer Bros., 727 Portola Dr. Plans by Owner. \$4000

DWELLING
(696) NW BRODERICK 128 N Lowell; one-story and basement frame dwelling.
Owner—H. E. Barbee, 225 College Ave. Plans by Owner. \$3500

ALTERATIONS
(697) W ANDERSON 85 SW Cort-land; alterations to flats.
Owner—T. Ponzo, 620 Cortland Ave. Architect—Not Given.
Contractor—Carl Frank Co., 305 Bo-cana St. \$1000

DWELLING
(698) SW RICO 150 SW Avila. One-story and basement frame dwell-ing.
Owner—E. A. Janssen, 811 Hearst Bldg., San Francisco.
Architect—Not Given. \$5000

DWELLING
(699) N IDORA 70 W Laguna Honc'a; one-story and basement frame dwelling.
Owner—Mr. and Mrs. Christensen, 1500 Francisco St., San Francisco.
Architect—S. A. Colton, 2020 Balboa St., San Francisco.
Contractor—G. J. Elkington & Sons, 320 Vicente St., San Francisco. \$5000

DWELLING
(700) N UPLAND 325 E Manor. One-story and basement frame dwelling.
Owner—G. O. Bendon, 2266 29th Ave., San Francisco.
Architect—Not Given. \$5500

ALTERATIONS
(701) 772 MARKET ST.; alterations to store.
Owner—Regal Shoe Co., 807 Market St. Plans by E. C. Goodwin Co., Worces-ter, Mass. \$2500

WAREHOUSE
(702) PHELPS ST., Bancroft and Car-roll Avenues; one-story and base-ment class C warehouse.
Owner—San Francisco Packing Co., Phelps and Williams St.
Plans by M. Fridele, 206 Sansome St. Contractor—Cahill Bros., 206 Sansome Street. \$20,000

APARTMENTS
(703) SE ELLIS and Franklin Sts.; seven-story (53) apts., basement class A and remainder class C.
Owner—Bargenes Realty Co., Ltd., 323 Monadnock Bldg.
Architect—C. E. J. Rogers, P h e l a n Bldg. \$125,000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - - California

DWELLINGS
(704) E 24th AVE. 225 N Lawton St. four 1-story and basement frame dwellings.
Owner—R. F. Galli, 1574 28th Ave. Plans by Owner. each \$400

ALTERATIONS
(705) 522 21st AVE.; alterations to dwelling.
Owner—P. G. Kraeft, 522 21st Ave. Architect—Not Given. \$150

FLATS
(706) S STATE 25 W Castro; two story and basement frame (two flats).
Owner—C. Einfeld, 123 State St. Plans by B. K. Dobkowitz, 425 Mont-erey Blvd. \$4500

DWELLINGS
(707) W 26th AVE. 75 S Kirkham five 1-story and basement frame dwellings.
Owner—H. Christensen, 1422 27th Ave. Architect—Not Given. each \$4000

DWELLINGS
(708) W CAYUGA 230 S Santa Rosa; two 1-story and basement frame dwellings.
Owner—A. A. Wesendunk, Jr., 16 25 San Jose Ave.
Plans by B. K. Dobkowitz, 425 Mont-erey Blvd. each \$4000

DWELLING
(709) W FERNWOOD 160 S Raven-wood; two-story and basement frame dwelling.
Owner and Builder—G. W. Stanley, 467 Turk St.
Architect—H. Stoner, Underwood Bldg. \$9000

DWELLINGS
(710) E 32nd AVE. 150 S Ulloa; five 1-story and basement frame dwell-ings.
Owner—A. J. Herzig, 635 Victoria St. Plans by G. H. Vore, Oakland. each \$4000

DWELLING
(711) E HOFFMAN 85 S Elizabeth; one-story and basement frame dwelling.
Owner—E. Koestler, 1332 York St. Plans by J. Buckley, 87 Fountain St. \$3000

ALTERATIONS
(712) 355 HAZELWOOD; alterations to dwelling.
Owner—Mr. and Mrs. L. Gruhke, 355 Hazelwood St.
Architect—Not Given.
Contractor—J. F. Linder, 617 Moraga Street. \$1200

FOUNDATION
(713) SW POWELL and Vandewater; foundation for 1-story brick shop.
Owner—A. Parente, 418 Francisco St. Plans by Owner. \$1000

WAREHOUSE
(714) N MISSION ST. 80 W 9th St.; one-story and basement class C warehouse.
Owner—D. Scanlon, 791 Valencia St. Engineer—G. P. Gill, 404 Rialto Bldg. Contractor—Sullivan & Sullivan, 7 1 4 Exchange Block Bldg. \$3000

ALTERATIONS
(715) W FILLMORE 20 S Post St.; alterations to store front.
Owner—L. G. Loupe, 425 Eush St.

rchitect—S. Heiman, Santa Fe Bldg.
ontractor—J. S. Malloch, 666 Mission
St. \$2000

WELLINGS
116) E 23rd AVE. 243 S Noriega;
two 1-story and basement frame
dwellings.
wner—L. Costello, 352 27th Ave.
rchitect—Not Given. each \$3500

WELLING
117) E 23rd AVE. 218 S Noriega;
one-story and basement frame
dwelling.
wner—L. Costello, 352 27th Ave.
rchitect—Not Given. \$3500

WELLING
118) SW 33rd AVENUE and Ulloa;
one-story and basement frame
dwelling.
wner—K. Hanson, 362 Hawthorne.
rchitect—Not Given. \$3400

WELLING
119) W 22nd AVE. 75 S Moraga;
one-story and basement frame
dwelling.
wner—J. F. Leonard, 26 Edinburgh.
ans by J. C. Duernert, 26 Edinburgh
Street. \$3000

WELLING
120) W 19th AVE. 200 S Sloat Blvd.;
one-story and basement frame
dwelling.
wner—F. Nelson & Son, 2198 Ocean
Avenue.
rchitect—Not Given. \$5000

WELLING
121) NW ARLETA and Alpha; one-
story and basement frame dwell-
ing.
wner—E. Dickman, 6240 Third St.
ans by D. S. Adams.
ontractor—J. Wright, 371 Rio Verde.
\$2500

WELLING
122) W FERNWOOD 120 S Raven-
wood; two-story and basement
frame dwelling.
Owner—G. W. Stanley, 467 Turk St.
rchitect—H. Stoner, Underwood Bldg.
\$9000

WELLING
123) E ARGUELLO 102 N Clay; 2-
story and basement frame dwell-
ing.
Owner—Mrs. J. K. Wester, 444 Golden
Gate Ave.
rchitect—E. E. Young, 2002 Califor-
nia Street.
ontractor—C. Hammer, 1524 Flori-
bunda Ave., Burlingame. \$9000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No. Owner	Contractor	Amt.
87 Landucci	Steinauer	17100
88 West	Papenhausen	10500
89 Ohe	Harms	18365
90 Challenge	Monson	115860
91 Scanlon	Sullivan	9497

FLATS

87) S LOMBARD 100 W Steiner V
27 S 95 E 22 N 10 E 5 N 85; all
work on two-story and basement
frame flat building.
Owner—Olinto and Josephine Landuc-
cl.
rchitect—C. F. Strothoff, 2274 15th
Street.
ontractor—S. Steinauer, 755 27th Ave.
Filed May 7, '31. Dated May 5, '31.
Roof sheathing on.....\$3025
Brown coated.....3025
Completed and accepted.....3025
Usual 35 days.....3025
TOTAL COST, \$12,100
Bond, \$6050. Sureties, F. J. Pohl, W.
Ruegg, Limit, 100 days. Plans and
Spec. filed.

FLATS
(87) E DIVISADERO ST. 125 East
Francisco St. N 25 x E 100; all
work on two-story and basement
stucco flats.
Owner—B. S. and F. M. West.
Plans by Mr. Papenhausen.
ontractor—H. Papenhausen, 595 Victo-
ria Street.
Filed May 7, '31. Dated April 29, '31.
Frame up.....\$2700
Brown coated.....2700
Completed.....2700
Usual 35 days.....2700
TOTAL COST, \$10,800
Bond, \$5400. Sureties, C. W. Higgins
and H. Gaetjen. Limit, 95 days. Plans
and Spec. filed.

BUILDING
(89) SW BEALE 100 NW Mission St.
NW 27-6xSW 137-6. All work for
one-story and basement building
Owner—F. H. and A. Ohe.
rchitect—J. E. Kraft, 2829 Divisa-
dero St., San Francisco.
ontractor—R. H. Harms, 1217 Stan-
ford St., San Francisco.
Filed May 9, '31. Dated April 25, '31.
Roof sheathing laid.....\$7000.00
Completed and accepted.....7232.75
Usual 35 days.....4741.25
TOTAL COST, \$18,965.00
Bond, \$9482.50. Surety, Nat'l. In-
demnity Co. Limit, July 30, 1931.
Forfeit, \$12. Plans and specifications
filed.

WAREHOUSE
(90) E EIGHTEENTH AND E
York E 200xN 137-6. All work for
two-story and basement concrete
warehouse.
Owner—Challenge Cream and Butter
Assn., Los Angeles.
rchitect—Dodge A. Riedy, 821 Mar-
ket St., San Francisco.
ontractor—O. Monson and H. E.
Rahman (as Monson Bros.), 475
Sixth St., San Francisco.
Filed May 12, '31. Dated March 30, '31.
As work progresses.....75%
Usual 35 days.....25%
TOTAL COST, \$115,800
Bonds (2) labor and materials, \$5,
\$5,820; performance, \$115,860. Surety,
U. S. Guarantee Co. Limit, 150 days.
Forfeit, none. Plans and specifications
filed.

WAREHOUSE
(91) NW MISSION ST 80 SW 9th St
SW 60-4 x NW 125; all work on
warehouse.
Owner—Dan Scanlon, 791 Valencia St.
rchitect—G. F. Gill, structional engi-
neer, Rialto Bldg.
ontractor—Sullivan & Sullivan, 369
Pine Street.
Filed and Dated May 13, 1931.
Frame up.....\$5000
Usual 35 days.....4497
TOTAL COST, \$9497
Bond, \$9497. Sureties, National Sure-
ty Co. Limit, \$25. Limit 35 days.
Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

May 6, 1931—SE ARMY and Alaba-
ma S 85 x E 25 N 83-3 W 25-2. L.
Ligone to J L Cuneo and F. De-
Mott. May 1, 1931
May 6, 1931—LOT 37 BLK 6801, map
Castle Manor. J Horn to whom it
may concern.....May 5, 1931
May 6, 1931—LOTS 6 and 7 BLK
2958 map Sub No. 4, Miraloma Plk.
Never Bros to whom it may con-
cern.....April 29, 1931
May 6, 1931—E 33rd AVE and South
Clement St E 24 x S 100. M E and
A Cutler to G P W Jensen.....May 1, 1931
May 6, 1931—W CHESTER ST 125

S Palmetto Ave S 50-402 SW, W
and NW alg desc'd in deed from
Ocean Shore R Co Feb 20, '25
and alg N and NE line of land
desc'd as parcel 2 in deed Aug J
Lang Jr to Clay and County of
San Francisco Jan 25, '28, 138-183
N 52/775 E 100-56 lots of Ocean
View Park as per map filed July
20, '28 Liber H of Maps at pages
36 and 37. Aug J Lang Jr to whom
it may concern.....May 4, 1931

May 8, 1931—E SIXTEENTH AVE
175 S Taraval S 25xE 120. A J and
B Benson to whom it may concern
.....May 8, 1931

May 8, 1931—LOT 14 BLK map
Forest Hill. O J Ohlson to whom
it may concern.....
May 8, 1931—S LINCOLN WAY
107-6 W Second Ave W 25xS 100.
Arvid Peterson to whom it may
concern.....May 8, 1931

May 8, 1931—S LINCOLN WAY
107-6 W Second Ave W 25xS 100.
Arvid Peterson to whom it may
concern.....May 8, 1931

May 7, 1931—N KEY AVE 125 SE
Lane SE 25 x W E 100. A H Cuth-
bert to whom it may concern.....
May 7, 1931

May 6, 1931—SW STEINER ST and
Haight 100 on Steiner x 31-3. L
Hogmaier to H S Melnberger.....
May 5, 1931

May 6, 1931—S GERRY ST 451
Ave E 95 x S 60. M P Storheim to
whom it may concern.....May 1, 1931

May 6, 1931—S ULLOA 32-6 E 18th
Ave E 25 x S 100. Thos E Mohler
to whom it may concern.....May 5, 1931

May 6, 1931—N HAMILTON 125 SE
Felton SE 25 x NE 120. O W Britt
to whom it may concern.....May 6, 1931

May 6, 1931—N VALLEJO 158-10
W Franklin W 80 x N 147-6. Wm
Van Herrick to whom it may con-
cern.....May 4, 1931

May 9, 1931—E VERMONT ST 137-8
S 13th S 25x100. F H Arnold to
whom it may concern.....May 9, 1931

May 9, 1931—NO. 710 ST. ROSES
Ave. Mrs. M Kasperik to Morris
& Weiner.....May 9, 1931

May 9, 1931—N MORAGA ST. 95 W
21st Ave No. 122 Moraga St. E
J and I Weber to whom it may
concern.....May 6, 1931

May 9, 1931—NW NAPLES 108-10
SW Silver Ave SW 25xNW 50. A
M Reed to whom it may concern
.....May 1, 1931

May 9, 1931—NE AMAZON AVE
100-60 NW Athens St. NE 83.91
NW 25 SW 91.62 SE 25.166. J
Perasso to whom it may concern
.....May 9, 1931

May 9, 1931—N HIRKHAM 32-9 E
Twenty-seventh Ave 50x100. A M
Godin to G V Godin.....May 9, 1931

May 9, 1931—S SADOWA ST. 106-3/4
W San Jose Ave. W 50xS 120. E
Guglielmo to whom it may con-
cern.....May 9, 1931

May 9, 1931—N HIRKHAM 32-9 E
Twenty-seventh Ave 50x100. A M
Godin to G V Godin.....May 9, 1931

May 11, 1931—LOT 269 Gift Map No 1. R and A Civarolo to M Stahl and E Forsman..... May 11, 1931
 May 11, 1931—236 ELMIRA STREET near Silver Ave. F Strul to M Brueck..... May 11, 1931
 May 11, 1931—E 30th AVE 100 North Kirkham 25x120. A A Plage to whom it may concern..... May 11, 1931

586 Nylander Nylander 4000
 587 Brista Owner 1000
 588 Pleitner Watson 3700
 589 Barth Baird 3500

(Correction)
RESIDENCE
 (554) NO. 475 BOYNTON ST., **BERKELEY**. Two-story 9-room frame and stucco residence.
 Owner—J. F. Haynes, Berkeley.
 Plans by S. Seindel, 38 Northampton Road, Berkeley. \$10,000

DWELLING
 (566) E LEO WAY 550 S Mountai Blvd., **OAKLAND**; two-story six room dwelling.
 Owner and Builder—C. W. Leekins 1650 Hopkins St., Oakland.
 Architect—Not Given. \$350

LIENS FILED

San Francisco County

Recorded Accepted
 May 5, 1931—LOT 21 BLK 26, City Land Assn. C and F Gellert as Standard Bldg Co vs Thos F Ward \$2200
 May 5, 1931—E VALENCIA ST 90 N 17th St N 30 x E 87-6. N Kras-sas vs M Stern, J Ranis & J Con-idaris \$65
 May 9, 1931—S GREEN 100 W Van Ness Ave W 26-4x5 100. Levy Electrical Constr Co vs M and F Samante \$652.57
 May 9, 1931—W BRYANT ST, 200 N Twenty-fourth St. N 30-7 E 35 W 3 in. E 65 S 30-10 W 100. In-faid Floor Co vs Perfection Floor Co; H P, G and J Phipps and E and L Stefanini \$40.81
 May 8, 1931—S GREEN 100 W Van Ness Ave W 26-4 x S 100. Pacific Coast Aggregates, Inc vs F S and M Damante \$247.51
 May 7, 1931—N HALE 150 SW Wyal-ston, No 322 Hale St. S Rosen vs G, M, J and M Fucile \$420
 May 11, 1931—E 26th AVE 150 North Taraval N 25 x E 120. Central Hardware & Glass Co vs H S and E Klingspor \$191.33
 May 12, 1931—E NEVADA 73-8 Ogden S 25x E 70. J Smith vs F Trefz \$36

DWELLING
 (556) N WALNUT AVE 190 E Ma-cera Ave., **OAKLAND**. One-story 5-room dwelling.
 Owner—Thos. Griffiths, 4601 Walnut Ave., Oakland.
 Architect—Not Given. \$3000

ADDITION
 (557) NO. 512 SIXTEENTH ST., **OAKLAND**. Addition.
 Owner—East Bay Municipal Utility District, Premises.
 Architect—Not Given. \$2500

DWELLING
 (558) W SIXTY-FIRST AVE 200 S E-14th St., **OAKLAND**. One-story 5-room dwelling.
 Owner—Ernest Mayne, 1321 61st Ave., Oakland.
 Architect—Not Given. \$2400

ALTERATIONS
 (559) NE SIXTEENTH AND CLAY Sts., **OAKLAND**. Alterations.
 Owner—John Cosmas, 16th and Clay Sts., Oakland.
 Architect—Not Given. \$1000

FRATERNITY HOUSE
 (560) NO. 2627 VIRGINIA ST., **BERKELEY**. Two - story 20-room frame and stucco fraternity house and garage.
 Owner—Alpha Si Sigma, 2448 College Ave., Berkeley.
 Architect—W. H. Ratcliff Jr., Chamber of Commerce Bldg., Berkeley.
 Contractor—H. K. Schulz, 811 Mendocino Ave., Berkeley. \$24,000

RESIDENCE
 (561) NO. 515 SPRUCE ST., **BERKELEY**. One-story frame and stucco residence and garage.
 Owner—Lawrence Ebber, 1217 Lake St., Berkeley.
 Architect—Not Given.
 Contractor—L. Van Gelder, 1716 Delaware St., Berkeley. \$6200

(562) NO. 2611 MATHEWS ST., **BERKELEY**. One-story 5-room 1-family frame residence and garage.
 Owner—C. Marietti, 1291 Stannage Ave., Berkeley.
 Architect—Not Given. \$2800

DWELLING
 (563) 2633 HARBOR VIEW DRIVE, **OAKLAND**; 1-story 5-room dwelling.
 Owner and Builder—O. Andersen, 2833 Fruitvale Ave., Oakland.
 Architect—Not Given. \$2500

DWELLING
 (564) W ROCKRIDGE BLVD. 50 S Margarido Drive, **OAKLAND**; 2-story 5-room dwelling.
 Owner and Builder—Paul H. Haller, 141 Florence Ave., Oakland.
 Architect—Not Given. \$4500

DWELLING
 (565) NE COR. FRUITVALE AVE. and Whittle, **OAKLAND**; 1-story 5-room dwelling.
 Owner and Builder—George A. Radke, 5725 Shattuck Ave., Oakland.
 Architect—Not Given. \$3500

DWELLING
 (567) S PROCTOR AVE. 250 E No 5oc Ave., **OAKLAND**; two-story 6-room dwelling.
 Owner—H. J. Stahlke.
 Architect—Not Given.
 Contractor—Leo J. Dolan, 316 17th St. Oakland. \$400

DWELLING
 (568) E 106TH AVE 180 S Foothill Blvd., **OAKLAND**. One-story 5 room dwelling.
 Owner—F. J. Sterzl, 452 Rich St. Oakland.
 Architect—Not Given.
 Contractor—W. O. Constable, 232 Myrtle St., Oakland. \$350

DWELLING
 (569) S SIXTY-FIFTH ST. 80 I Herzog St., **OAKLAND**. One-story five-room dwelling.
 Owner—J. Beleria, 1219 66th St., Oakland.
 Architect—Not Given. \$2671

ADDITION
 (570) NO. 429 TWENTIETH ST. **OAKLAND**. Addition.
 Owner—Elks' Hall Assn., 20th and Broadway, Oakland.
 Contractor—Ben F. Kopf, 845 Pacific Ave., Alameda. \$2922

RESIDENCE
 (571) NO. 600 CRAGMONT AVE., **BERKELEY**. One-story 6-room 1-family frame residence and garage.
 Owner—O. M. French, 1740 Walnut St., Berkeley.
 Architect—Not Given. \$3500

DWELLING
 (572) NO. 1106 SHERMAN ST., **ALAMEDA**. Two-story 8-room frame and stucco dwelling.
 Owner—H. B. and I. L. Fisher, Alameda.
 Plans by Owner.
 Contractor—Ihrig & Thorpe, Alameda. \$6500

STATIONS
 (573) NE COR. LAKESHORE AND Mandana Blvd., **OAKLAND**. Two one-story brick service stations.
 Owner—Standard Oil Co., 1916 Broadway, Oakland.
 Architect—Not Given. \$5500

DWELLING
 (574) N SIMMONS 90 E Morcom Ave., **OAKLAND**. One-story 6-room dwelling.
 Owner—Fred T. Dooley, 3936 Vale Ave., Oakland.
 Architect—Not Given. \$3000

GARAGE
 (575) NO. 2936 HOPKINS ST., **OAKLAND**. One-story concrete garage.
 Owner—E. M. McGowan, 2936 Hopkll St., Oakland.
 Architect—Not Given. \$1000

ALTERATIONS
 (576) NO. 1445 TWENTY-THIRD AVE., **OAKLAND**. Alterations.
 Owner—Oregon-Calif. Amusement Co., 25 Taylor St., San Francisco.
 Architect—Reid Bros., 105 Montgomery St., San Francisco.
 Contractor—Alfred J. Hopper, 1769 Pleasant Valley Road, Oakland. \$30,000

DWELLINGS
 (577) NO. 6835-6841 OUTLOOK AVE., **OAKLAND**. Two one-story five-room dwellings.

RELEASE OF LIENS

San Francisco County

Recorded Amount
 May 9, 1931—LOTS 30, 31 AND 32 Bk 143, Map Brown Estate Co's Sub Ptn University Mound. Wm Orlick to M Derby.....
 May 8, 1931—LOT 21 BLK 26, City Land Assn. Carl and Fred Gellert to Thomas F Ward.....

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
556	Griffiths	Owner	3000
557	East Bay	Owner	2500
558	Mayne	Owner	2400
559	Cosmas	Owner	1000
560	Alpha	Schulz	24000
561	Ebber	Van Gelder	6200
562	Marietti	Owner	2800
563	Andersen	Owner	2500
564	Haller	Owner	4500
565	Radke	Owner	3500
566	Leekins	Owner	3500
567	Stahlke	Dolan	4000
568	Sterzl	Constable	3500
569	Baleria	Owner	2671
570	Elks' Kopf	Owner	3222
571	French	Owner	3500
572	Fisher	Ihrig	6500
573	Standard	Owner	5500
574	Dooley	Owner	3000
575	McGowan	Owner	1000
576	Oregon-Calif	Hopper	30000
577	Johnson	Owner	5000
578	Hexem	Owner	3200
579	Rodrick	Owner	3500
580	Fleming	Owner	4050
581	Duncan	Owner	2950
582	Hufschmidt	Williamson	4250
583	Nylander	Nylander	4000
584	Sharp	Thomas	4500
585	Lyon	Owner	3500

owner—K. A. Johanson, 2832 76th Ave., Oakland.
 Architect—Not Given. \$2950 ea

DWELLING
 (378) SW MADELINE AND HILL-view Sts., OAKLAND. One-story 5-room dwelling and one-story garage.
 Owner—Andrew Hexem, 2959 California St., Oakland.
 Architect—Not Given. \$3200

DWELLING
 (379) N PENNIMAN AVE 364 W High St., OAKLAND. One-story 8-room 2-family dwelling.
 Owner—Mrs. E. Rodrick, 3131 Monticello Ave., Oakland.
 Architect—Not Given. \$3500

DWELLING
 (380) S PENNIMAN AVE 134 W Minna Ave., OAKLAND. One-story 5-room dwelling and one-story garage.
 Owner—Andrew Fleming, 4126 Culver St., Oakland.
 Architect—Not Given. \$4050

DWELLING
 (381) E EIGHTIETH AVE 180 N Hillside St., OAKLAND. One-story 5-room dwelling.
 Owner—Geo. Duncan, 2553 78th Ave., Oakland.
 Architect—Not Given. \$2950

RESIDENCE
 (382) NO. 3110 CLAREMONT AVE., BERKELEY. One-story 5-room 1-family frame residence.
 Owner—Huschmidt & Whalen, 407 Federal Bldg., Oakland.
 Architect—W. W. Dixon, 1844 Fifth Ave., Oakland.
 Contractor—E. M. Williamson, 3761 Allendale Ave., Oakland. \$4250

DWELLING
 (383) N FIFTY-SEVENTH ST. 320 E Shattuck Ave., OAKLAND. Two-story 6-room dwelling.
 Owner—H. Nylander, 633 Montclair Ave., Oakland.
 Architect—Not Given.
 Contractor—Nylander Bros., 633 Montclair Ave., Oakland. \$4000

DWELLING
 (384) S THORN ROAD 700 E Pinehaven Rd, OAKLAND. Two-story 5-room dwelling.
 Owner—F. E. Harp.
 Architect—C. H. Thriechel, American Bank Bldg., Oakland.
 Contractor—C. H. Thrans, 28 Home Place, Oakland. \$4950

DWELLING
 (385) S MELDON ST. 300 W Birdsal Ave., OAKLAND. Two-story six-room dwelling.
 Owner—C. D. Lyon, 6501 Buena Vista Ave., Oakland.
 Architect—Not Given. \$3500

DWELLING
 (386) S AILEEN ST. 215 E Shattuck Ave., OAKLAND. Two-story 6-room dwelling.
 Owner—H. W. Nylander, 633 Montclair Ave., Oakland.
 Architect—Not Given.
 Contractor—Nylander Bros., 633 Montclair Ave., Oakland. \$4000

ALTERATIONS
 (387) NO. 830 E-EIGHTEENTH ST., OAKLAND. Alterations and additions.
 Owner—M. L. Brista, 830 E-18th St., Oakland.
 Architect—Not Given. \$1000

DWELLING
 (388) NO. 3000 WISCONSIN ST., OAKLAND. Two-story 6-room dwelling.
 Owner—H. A. Pleitner, 1301 Fruitvale Ave., Oakland.

Architect—Not Given.
 Contractor—Wm. Watson, 4750 Meldon Ave., Oakland. \$3700

DWELLING
 (389) N FIFTY-SECOND ST. 300 V Market St., OAKLAND. One-story 5-room dwelling and one-story garage and shop.
 Owner—O. Barth, 744 30th St., Oakland.
 Architect—Not Given.
 Contractor—L. M. Baird, 633 Alma Ave., Oakland. \$3500

BUILDING CONTRACTS

ALAMEDA COUNTY

No. Owner Contractor Amt.
 78 Oregon Hopper 26400

ALTERATIONS
 (78) 1445 23RD AVENUE, Oakland; changing and remodeling (exclusive of electric wiring, heating and ventilating, painting and decorating). Theatre building.
 Owner—The Oregon and California Amusement Company.
 Architect—Reid Bros., 333 Montgomery St., San Francisco.
 Contractor—A. J. Hopper, 1763 Pleasant Valley, Piedmont.
 Filed May 7, '31. Dated May 5, '31. Fifth and 20th of each mo. 75% Usual 35 days. 25%
 TOTAL COST, \$36,400
 Bond, \$13,200. Sureties, Fidelity and Casualty Co. of N. Y. Limit, Aug. 1, 1931. Plans and Spec. filed.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded	Accepted
May 11, 1931—LOT 9 BLK K, Durant Manor, Oakland. Andrew and Martha Hexem to whom it may concern. May 5, 1931	
May 11, 1931—630 SANTA ROSA AVE, Berkeley. Charles Richard & Mary Elizabeth Reid to Joe Vila. May 9, 1931	
May 11, 1931—LOT 21 BLK 36, Fairmont Park, Albany. J F Hubbard to whom it may concern. May 11, 1931	
May 9, 1931—LOT 56, Oakland Prospect Homestead Subdiv., Oakland. Louise B Brain to W Bryan Milton. May 7, 1931	
May 9, 1931—NO. 808 AND 810 E Twenty-fourth St., Oakland. J Schemanski to George T Williams. May 1, 1931	
May 8, 1931—LOT 29 BLK A, Claremont Pines, Oakland. J M Olson to whom it may concern. May 8, 1931	
May 8, 1931—SW CARMEL ST 91-8 ft NW of Rhoda Ave, Oakland. Martin Nelson to J D McCabe. May 8, 1931	
May 11, 1931—LOT 11 Grand Oak Tract, Alameda. Martha H Anderson to whom it may concern. May 9, 1931	
May 12, 1931—PTN LOTS 29 AND 30 65th Avenue Acres, Oakland.	

K A Johanson to whom it may concern. May 11, 1931
 May 12, 1931—LOT 7 BLK 219, Bray Tract, Oakland. Third Church of Christ Scientist, Oakland to A Cederberg. May 2, 1931

LIENS FILED

ALAMEDA COUNTY

June 12, 1931—LOT 5 and Ptn Lot 4 Blk 24, Lakeside Tract, Oakland. Peninsular Burner & Oil Co vs D V Irwin and W M Greuner. \$150
May 11, 1931—LOT 3 BLK 5, Berkeley Square, Berkeley. Atlas Heating & Ventilating Co, Ltd. vs F H Felt. \$125
May 11, 1931—NW SANTA CLARA AVE and Grand Ave, Oakland. W P Fuller & Co vs Wm N Greuner. \$184.02
May 11, 1931—SE VAN BUREN & Perkins St., Oakland. Thomas Higgins (as F Shorthand Iron Works) vs Harry Schuster. \$426.07
May 8, 1931—2222 HIGH ST, Oakland. Barr Flooring Co vs Thos and A Darling. \$32.50
May 8, 1931—W LINE E 14th ST 181 21 ft E 13th Ave, Oakland. A S Cliffer vs Melrose Steel Co, R L Jones. \$148
May 8, 1931—S GREEN 100 W Van Ness Ave W 26-4 S 100. A Menarini vs M and P Damante. \$1172
May 5, 1931—714 TRESTLE GLEN Road, Oakland. Henry & Weisenhaus vs E K Jarvis, C E Davidson. \$62.00
May 6, 1931—1522 HARRISON ST, Oakland. Henry Cowell Lime and Cement Co vs J C Stephens, M Gage, Mabel Pease, E Gross, B Richardson, G W and G E Erickson, J Hogan. \$16.28
May 5, 1931—4101 to 4109 E 14th St, Oakland. J F O'Brien vs Rokutaini Bros Co, Toki Rokutaini, Nick Lambas. \$116.40

RELEASE OF LIENS

Alameda County

Recorded	Amount
May 8, 1931—LOT 23 BLK 220, town of Newark. Williams & Russo, Inc to B Ingham. \$97.55	
May 9, 1931—E HENRY ST. 210 ft. S Vine St., Berkeley. A F Ward, Charles A Haglund and T Argenta to E C Freshour (Haglund) \$84.16; (Argenta) \$115; (Ward) \$65.	

BUILDING CONTRACTS

SAN MATEO COUNTY

DWELLING
 LOTS 22 AND 23 BLK 1, Woosen, Whittion & Montgomery Sub., San Mateo. All work for one-story dwelling and garage.
 Owner—Domenico Firenze, Redwood City.
 Architect—Not Given.
 Contractor—Ferdinando Toni.

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
 490 GEARY STREET
 Phone FRanklin 9400
 San Francisco

Filed May 5, '31. Dated April 13, '31.
 Roof on \$ 750
 When plastered 750
 When completed 750
 Usual 35 days 1150

TOTAL COST, \$3400
 Bond, limit, forfeit, plans and specifications, none.

RESIDENCE
 LOT 3 BLK 9, University Park, San Mateo. All work for two-story frame and stucco residence.

Owner—Mrs. W. F. Knox, University and Leland Aves., Menlo Park.
 Architect—Gay Koeppe, Carmel.
 Contractor—Henry B. Post, 1330 Webster St., Palo Alto.
 Filed May 7, '31. Dated May 6, '31.

As work progresses 75 %
 Usual 35 days 25 %

TOTAL COST, \$7892
 Bond, \$3946. Sureties, Jame H. Price and A. L. Hone. Limit, 100 working days. Forfeit, none. Plans and specifications filed.

RESIDENCE
 CARALANDS, Hillsborough. All work for two-story frame and stucco residence and garage.

Owner—William H. Berg.
 Architect—Willis Polk & Co., 277 Pine St., San Francisco.

Contractor—A. F. and C. W. Mattock.
 Filed May 6, '31. Dated May 4, '31.

As work progresses 75 %
 Usual 35 days 5 %

TOTAL COST, \$38,576.09
 Bond, \$38,576.09. Surety, Indemnity Insurance Co. of North America. Limit, Oct. 1, 1931. Forfeit, none. Plans and specifications filed.

ALTERATIONS
 PORTOLA ROAD, Woodside. All work for alterations and additions to building.

Owner—John J. Hooper Co.
 Architect—Charles K. Sumner, 760 University Ave., S. San Mateo.
 Contractor—Edward J. Schmaing, 863 Melville Ave., Palo Alto.

Filed May 5, '31. Dated April 28, '31.
 Frame up \$178.25
 When plastered 178.25
 When completed 178.25
 Usual 35 days 178.25

TOTAL COST, \$715.00
 Bond, \$356.50. Surety, Louisa B. Grove. Limit, 100 working days. Forfeit, none. Plans only filed.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
 May 7, 1931—LOT 11 BLK 8, San Carlos. William M Lawrence to G Magnuson May 6, 1931
 May 7, 1931—"WOODPECKER Farm," Atherton. Rosalia N Walter to G P W Jensen April 29, 1931
 May 8, 1931—LOT 34 BLK 30, Easton A R Woodman et al to C W Carlson May 7, 1931
 May 9, 1931—LOTS 41, 42 AND 43 Blk 4, Burlingame. L G Gray to August J Lang Jr. May 11, 1931
 May 11, 1931—LOT 3 B. O. Hayward Park. L Sausett to Harry Kine May 11, 1931
 May 11, 1931—LOT 10 BLK 4, Dumbarton Acres. Howard J Canine to Howard J Canine May 6, 1931
 May 11, 1931—LOT 34 BLK 2, Jefferson Park. Castle Building Co to Henry Horn May 4, 1931
 May 11, 1931—PART LOTS 23 AND LOT 23 Blk 7; Part Lot 3 Blk 4; part Lots 7 and 8 Blk 3 and part Lots 9 and 10 Blk 5, Blossom Health Manor. Castle Bldg Co to Henry Horn May 4, 1931
 May 5, 1931—WOODSIDE ACRES. Gambolista Cassaretto to whom it may concern.

May 5, 1931—LOT 12 BLK 21, Robinson Sub., San Mateo. Eric Standquist to whom it may concern May 5, 1931
 May 6, 1931—LOT 25 and Part Lot 24 Blk A, Oak Grove Park. Dora Minnet to whom it may concern May 1, 1931
 May 6, 1931—PART LOT 19, Johnson Sub., San Mateo. Bertrand Mininat to Moncrieff Bros. May 2, 1931
 May 6, 1931—LOT 9 BLK 11, Lyon & Hong Sub., San Carlos. John E McCarthy to whom it may concern May 6, 1931
 May 5, 1931—LOTS 9 AND 10 BLK 5, San Bruno. W R Witt to whom it may concern May 1, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded Amount
 May 9, 1931—LOT 12 BLK A, Fay's Redwood Gardens. San Carlos Feed & Fuel Co vs J G Lehman et al \$262

BUILDING CONTRACTS

SANTA CLARA COUNTY

BUILDING
 LOT 4 Phelps Subdivision 9A. C Road District No. 4. All work for two-story rustic building.
 Owner—Wesley Toy, 706 S-Ninth St., San Jose.
 Architect—Hinder & Curtis, 35 W-San Carlos St., San Jose.
 Contractor—George L. Honore, 136 Race St., San Jose.
 Filed May 4, '31. Dated May 4, '31.
 As work progresses 75 %
 Usual 35 days 25 %
 Bond, \$3900. Sureties, L. Hubbard and E. H. Chase. Limit, 75 working days from May 4, 1931. Forfeit, none. Plans and specifications filed.

BUILDING PERMITS

REDWOOD CITY

DWELLING and garage, frame, \$4000; No. 153 Hudson St., Redwood City
 Owner C. C. McKenzie, 1104 Madison Ave., Redwood City; contractor, T. Nelson, 51 Perry St., Redwood City.
 DWELLING and garage, frame, \$3000; No. 1159 Clinton St., Redwood City
 owner, S. B. Goss.
 DWELLING, 6-room, bath and garage, frame, \$7500; No. 964 Elandford Blvd., Redwood City; owner, Harold J. McGee.
 DWELLING, 6-rooms, bath and garage, frame, \$3000; No. 1112 Fay St., Redwood City.

BUILDING PERMITS

PALO ALTO

RESIDENCE & garage, 2-story frame and stucco, \$11,500; No. 1144 Ham-lilton Ave., Palo Alto; owner and contractor, W. F. Klay, Menlo Oaks Drive, Menlo Park.
 RESIDENCE and garage, 2-story frame and stucco, \$7900; No. 1911 Waverly St., Palo Alto; owner, Clementia L. Gibson; contractor, W. H. Gibson, 533 Woodland Ave., East Palo Alto.

BUILDING PERMITS

SAN JOSE

ALTER three-story Class C hotel building, \$5000; SV Second and Fountain Sts., San Jose; owner,

L. B. Archer, Bank of Italy Bk., San Jose; architect, Not given; contractor, J. C. Thorp, Bank of Italy Bldg., San Jose.
 RESIDENCE, 4-room frame, \$2000; N 16th St. near Vestal, San Jo; owner and contractor, W. H. L., 50 N-First St., San Jose.
 RESIDENCE, 6-room frame, \$4500; No. 1510 McDaniel Ave., San Jo; owner and contractor, Wm. O'Neil, 1500 McDaniel St., San Jo.
 RESIDENCE, frame, 2-story 8-room, \$7500; McKendrie St. nearameda St., San Jose; owner, Emma McQuoid, 198 Tilman Ave., San Jose; architect, Roy Babcock, S-Sixth St., San Jose.

BUILDING PERMITS

BURLINGAME

BUNGALOW, \$6000; Lot 14 Blk Paloma Ave., Burlingame; owner and contractor, I. Sorensen, 11 Lincoln St., Burlingame.
 BUNGALOW, \$5000; Oxford Rd. 1 Gates St., Burlingame; owner a contractor, O. W. Schuck.
 ALTERATIONS, \$1800; No. 1520 Newland Ave., Burlingame; owner Mrs. Milton Finlof, 540 Francisco St., Burlingame.

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
 May 2, 1931—LOT 15 BLK 13, Sunnyside Addition No. 2, Palo Alto. Tilden Lumber & Mill Co vs Ezra Bishop \$

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted
 April 30, 1931—LOT 7 BLK 122, Crescent Park—No. 2, Palo Alto. O A Comper to whom it may concern April 25, 1931
 April 30, 1931—BOUNDED BY SECOND, Mission, Fourth and Ross Sts (Peter H. Burnett Junior High School), San Jose. San Jose High School District to whom it may concern (heating system; plumbing; electrical work) April 29, 1931
 April 30, 1931—LOT 26 and N 10 ft. Lot 27 and S ½ Lot 25, Naglee Terrace, San Jose. Owner omitted to whom it may concern April 20, 1931
 April 30, 1931—LOT 49, Colonial Manor, San Jose. William H O'Neil to whom it may concern April 30, 1931
 April 30, 1931—SE 42.50 FT. LOT 3 Blk 2, Hawxhurst Addition, Palo Alto. Earl D Minton to whom it may concern April 30, 1931
 April 30, 1931—LOT 28, Lincoln Manor, San Jose. David V Strom to whom it may concern April 29, 1931
 April 30, 1931—SE GRANT AND SW Second St SW 50XSE 100 ft. Part Lot 3 Blk 2, Hawxhurst Addition, Palo Alto. Earl D Minton to whom it may concern April 27, 1931
 May 1, 1931—LOT 8 BLK 1, Lincoln Gates. Alfred D Zeder to whom it may concern April 30, 1931
 May 2, 1931—LOT 29 BLK 4, Lincoln Gates. A W Maderis to whom it may concern May 1, 1931
 May 2, 1931—SE IRENE COURT 133 NE and 150 SE from NW Cor. Land of Corcoran. N J and Carolina E Nielsen to whom it may concern April 30, 1931
 April 4, 1931—LOT 7 BLK 31, Los Altos No. 3. Milton L Rogers

to whom it may concern.....
 May 2, 1931
 17 4, 1931—W-WILLIAM ST.,
 (Garden School Site), San Jose,
 San Jose High School District to
 whom it may concern.....May 1, 1931

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Accepted
 May 2, 1931—LOT 1 BLK 35, University Grounds, William J Cook-ley to M V Hevrin.....\$19

BUILDING PERMITS

RICHMOND

ATTAGE, frame and plaster, five-room and basement garage, \$4000; E Dimar, bet. Barrett and Humboldt Sts., Richmond; owner and contractor, Carl Overna, 2165 Roosevelt St., Richmond; plans by Owner.

ATTAGE, frame and plaster, five-room and detached garage, \$4000; N Barrett, bet. 32nd and 33rd Sts., Richmond; owner, Byron Claipico, 1726 Roosevelt Ave., Richmond.

ATTAGE, frame and plaster, five-room and detached garage, \$3000; W 32nd St., bet. Roosevelt and Clinton Aves., Richmond; owner and contractor, H. C. Schaefer, 839 Evans St., San Francisco; plans by A. D. Markham, 23rd and Nevin Aves., Richmond.

ATTAGE, addition frame, 4-room & basement garage, \$1500; N Clinton Ave., bet. Ventura and Humboldt Sts., Richmond; owner, A. C. Schwens, 796 Ventura St., Richmond; architect, J. T. Narbett, 3190 Barrett St., Richmond; contractor, F. C. Hosking, 541 Civic Center, Richmond.

BUILDING PERMITS

STOCKTON

WELLING, brick veneer, 6-room and garage, \$5374; No. 1236 W-Vine St., Stockton; owner, Mr. and Mrs. Wilkes Griffin; contractor, George Rock, 1724 W-Cornell St., Stockton.

WELLING, rustic, six-room and garage, \$4275; No. 456 S-Regent St., Stockton; owner, F. P. Dobson, 1159 W-Harding Way, Stockton.

INDUSTRIAL building, \$1290; No. 2178 E-Main St., Stockton; owner, Louisa Ziznegro et al.

WELLING, brick veneer, six-room and garage, \$5000; No. 1720 W-Willow St., Stockton; owner, Bert S. Knight, 735 N-Baker St., Stockton; contractor, B. T. Parsons, 592 Beatrice St., Stockton.

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
 May 8, 1931—SAN RAFAEL, Jos Buttiner to Harold E Squire.....

May 8, 1931—SAN ANSELMO, Thomas D Minto to Wm S Kepple.....

May 9, 1931—SAN ANSELMO, E E Vaughan to whom it may concern.....

May 9, 1931—BELVEDERE, S I Moore to L B Curtis et al.....

May 11, 1931—SAN ANSELMO, Ed Rhoades to whom it may concern.....

May 1, 1931—SAN RAFAEL, Do-

lores Kleinworth to John Carni-mach..... May 4, 1931
 May 4, 1931—LARKSPUR, Charles L Donovan and James Kennet to whom it may concern, April 29, 1931
 May 5, 1931—SAN ANSELMO, Ed Rhoades to whom it may concern..... May 5, 1931
 May 5, 1931—SAN ANSELMO, Patrick Tierney to P J Phelan..... April 25, 1931

LIENS FILED

MARIN COUNTY

Recorded Accepted
 May 8, 1931—BUSII TRACT, San Anselmo, Angelo Barbera vs Italo Lanci and wife and J Far-nocchia.....\$260.53
 May 2, 1931—MILL VALLEY, Melvin Klyce vs R I Wisler.....\$745.37

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 May 5, 1931—LOTS 8 AND BLK 6, Map of Pringle Addn to Town of Walnut Grove, Alma A and A E Sims to whom it may concern..... May 2, 1931

May 6, 1931—LOTS 3 AND 4 BLK 6, Richmond Pullman Home Tract, E G Anderson to E G Anderson..... May 4, 1931

May 7, 1931—LOT 3 and W 1/2 Lot 4 Blk 5, Richmond City Center, M L Mattice to whom it may concern..... May 5, 1931

May 7, 1931—LOT 3, Resubdivision of Orinda Villa Park, B A and Mary Glover to Walter L Brod-rick..... April 30, 1931

May 2, 1931—FROM TOWN OF CON-cord, N toward Bay Point (pipe line), California Water Service Co to E H Mellicamp, April 25, 1931

May 2, 1931—PTNS LOTS 2 AND 3, Blk 12, Richmond Traffic Center, David and Isabelle R Dryden to whom it may concern, April 24, 1931

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
 May 12, 1931—LOT 6 and Lot F Blk 1, Lakeview, Alphonse Salmi to F P Dobson..... May 10, 1931

May 9, 1931—LOT 16 BLK 2, Lake-view, H H Thurston to whom it may concern..... May 1931

May 6, 1931—LOT 4 BLK 26, Supple-ment to Survey No. 2999, Filed May 29, 1905, William Peenstra to whom it may concern..... May 4, 1931

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 May 6, 1931—LOT ON ST. HELENA Ave Blk 35, McDonald Addition to Santa Rosa, William T Owen to whom it may concern..... May 5, 1931

May 8, 1931—LOT 300 BLK 9, Wheel-ers 2nd Addition to Santa Rosa, Webb D and Ado M Hill to An-drew Stenbro and C W Gandy..... May 6, 1931

May 12, 1931—LOT 10 BLK 3, Pro-cton Terrace Addition to Santa Rosa, A C and Alice Crosley to Mutual Home Builders Assn..... May 9, 1931

May 11, 1931—N SHILOH ROAD 1/2 mile W of Redwood Highway, H A McCarrie to W J Smith..... May 6, 1931

LIENS FILED

SONOMA COUNTY

Recorded Accepted
 May 6, 1931—LOT ON ST. HELENA Ave Blk 35, McDonald's Addition to Santa Rosa, E W White Lum-ber Co vs W T Owen.....\$746.23
 May 8, 1931—BLK 35, McDonald's Addition to Santa Rosa 70x150 ft., C D Roberts vs William T and Elizabeth Owen.....\$340.65

May 8, 1931—E 80 FT. LOTS 2 & 4 Blk 4, Norwood Addition to Santa Rosa, Santa Rosa Build-ing Materials, Inc vs Thomas M and Beulah M Daniels.....\$97.64

May 11, 1931—BLK 35, McDonald's Addition to Santa Rosa, 70x150 ft., Crester & Stone vs William T and Elizabeth Owen.....\$49

May 11, 1931—BLK 35, McDonald's Addition to Santa Rosa, 70x150 ft., Grace Bros, Inc, vs W T Owen.....\$37.80-\$6.00

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
 May 4, 1931—LOT 22 BLK 10 1/2 Map of Homestead Addition to Salinas City, Mossom H Fetterly to whom it may concern..... May 1, 1931

May 4, 1931—LOT 13 BLK 1, Spaz-ier Subdivision in the City of Pacific Grove, J W Shaney to whom it may concern, May 4, 1931

May 5, 1931—W PORTION LOT 22 of Sunset Addition, J F Kraus to whom it may concern, May 1, 1931

May 5, 1931—LOT 20, Irving J. Kel-ley Subdivision, King City, J D Kenner to T H Williams..... April 23, 1931

May 5, 1931—LOT 21, Irving J Kel-ley Sbdvn, King City, J D Ken-ner to T H Williams..... April 23, 1931

May 6, 1931—PTN LOT 12 BLK 8 1/2 Stone's Homestead Addition to Salinas City, Louis H Gibbs to Florence Gibbs..... May 4, 1931

May 6, 1931—SW LINE COUNTY Road 60 feet leading from Sa-linas to Odd Fellows' Cemetery, commonly known as Abbott St., Monterey, Stanley Garth Wil-moth and Mildred M Wilmoth to Bruce E Baird..... May 1, 1931

May 7, 1931—LOT 11 BLK 1, C. Tognetti Subdivision, J E and Ethel Eckett to whom it may concern..... May 1, 1931

May 7, 1931—LOT 2 BLK 39, Mon-terey Peninsula Country Club Sub-division, No. 1, R M Cuthbert to M W Beese and A B Catwell..... May 1, 1931

May 7, 1931—LOTS 24 AND 26 BLK H H Addition No. 3, Carmel-by-the-Sea, F W Ten Winkel to Ernest S Bixler..... April 30, 1931

LIENS FILED

MONTEREY COUNTY

Recorded Accepted
 May 4, 1931—LOTS 16 AND 17 BLK 167, La Loma Terrace being 11th addition to Carmel-by-the-Sea, S Flint; C F Phillips; J Flint and Phillips Heating & Plumbing Co vs Archibald D Irving.....\$367.28

May 6, 1931—LOTS 1, 2, 3 AND 4 Blk 65, Map of East Monterey, F E Gauss vs William Forkner.....\$145

May 6, 1931—LOTS 1, 2, 3 AND 4 Blk 65, Map of East Monterey, M J Murphy, et al vs Wm Forkner and Edith A Roberts.....\$363.38

May 8, 1931—LOTS 1, 2, 3 and 4 Blk 65, Map of East Monterey, A Turano vs William Forkner and Edith A Roberts.....\$261

RELEASE OF LIENS

MONTEREY COUNTY

Recorded Amount
May 8, 1931--LOT 8 BLK 24, Monte Regio No. 1. Overhulse Brothers, Marion W Overhulse and F E Overhulse, \$340.75; C A Lewis, \$220; The Work Lumber Co, \$391.73; R S Tice, \$66.65 to Melvin A and Florence D Conger and W C Mann.....

BUILDING PERMITS

SACRAMENTO

RESIDENCE and garage, \$5000; No. 2509 Fourth Ave., Sacramento; owner, C. Ruby, 4500 T St., Sacramento.
RESIDENCE and garage, \$3500; No. 1732 Fourth Ave., Sacramento; owner, H. B. Elsherry, 2118 7th Ave., Sacramento.
RESIDENCE and garage, \$6450; No. 1189 Meriam Way, Sacramento; owner, Land Drive Terrace, 819 J St., Sacramento.
GENERAL repairs, \$2000; No. 1008 K St., Sacramento; owner, Sacramento Hotel Co., Premises; contractor, Campbell Constr. Co., 806 R St., Sacramento.
ALTERATIONS and additions, \$8000; No. 721 H St., Sacramento; owner and contractor, H. L. Alee, 3117 V St., Sacramento.
RESIDENCE and garage, \$6000; No. 1520 11th Ave., Sacramento; owner and contractor, G. Froling, 1625 40th St., Sacramento.
RESIDENCE and garage, \$9000; No. 1425 52nd St., Sacramento; owner, Vey Cramer, Premises.
RESIDENCE and garage, \$4800; No. 2755 14th St., Sacramento; owner and contractor, C. Lawrence, 4948 10th Ave., Sacramento.
HOUSE and garage, \$6000; No. 314 Santa Ynez Way, Sacramento; owner and contractor, C. Thompson, 3443 Sacramento Blvd., Sacramento.
RESIDENCE, 10-room and garage, \$11,460; No. 1101 Robertson Way, Sacramento; owner, Mrs. Jessie Woods King, 1516 27th St., Sacramento; contractor, Guth & Fox, 1528 27th St., Sacramento.
DEPARTMENT store, \$316,473; No. 318-829 K St., Sacramento; owner, Kress Co., Premises; contractor, Lindgren & Swinerton, 225 Bush St., San Francisco.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
May 7, 1931--LOTS 7318-7319 and 7320, Casa Alameda Tract, Sacramento. Ellsworth Harrold to whom it may concern.....May 2, 1931
May 6, 1931--LOT 783 W & K. Tet 20, Sacramento. John and Gertrude Simmons to whom it may concern.....May 6, 1931
May 11, 1931--LOT 50, Ridgeway Terrace, Sacramento. Pete Lopez to whom it may concern.....May 6, 1931

LIENS FILED

SACRAMENTO COUNTY

Recorded Amount
May 12, 1931--LOT 8 W 1/2 Lot 10 Blk 77, East of Center St. Harry Baskin vs E N Fessler and Ben Hery\$145
May 8, 1931--LOT 10, McKinley Blvd Tract No. 1, Sacramento. Sierra Mill vs R W and Georgia May Browne\$551.75

May 9, 1931--LOT 87, Ridge Park, Sacramento. Dolan Building Material Co., Inc vs John Dandretta\$1019.45
May 9, 1931--LOTS 3, 4, 5, 6, 7, 8, 9 10 and 11, Alhambra Tract, Sacramento. Dolan Edlg Material Co, Inc vs Edward and Frances Wail and Edward Pease and Zue Geery\$261.32

BUILDING CONTRACTS

FRESNO COUNTY

SERVICE station, \$1500; No. 49 Olive Ave., Fresno; owner, Guy Stockton, Cory Bldg., Fresno; contractor, R. F. Sisson, 1003 Adolno St., Fresno.
GARAGE, \$1950; No. 2424 Stanislaus St., Fresno; owner, Lloyd D. Chrisman, 2448 Stanislaus St., Fresno; contractor, J. T. Cowan, 750 Elizabeth St., Fresno.
DWELLING and garage, \$3000; No. 441 Harvard Ave., Fresno; owner, A. G. Lampases.
DWELLING and garage, \$6500; No. 332 Terrace Ave., Fresno; owner, Taylor-Wheeler Inc., Power Co. Bldg., Fresno.
DWELLING and garage, \$5950; No. 3564 Platt Ave., Fresno; owner, Harry P. Duncan; contractor, Harry P. Nelson, 822 S-5th St., Fresno.
ALTERATIONS and additions, \$1000; No. 315-317, Broadway, Fresno; owner, Bank of America, Premises; contractor, Harry P. Nelson, 822 S-Pifth St., Fresno.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
May 5, 1931--LOT 30, Terrace Gardens. Taylor-Wheeler Inc to whom it may concern.....May 4, 1931
May 9, 1931--E 75 FT. LOTS 8, 9, 10 Blk 1, Boone Terrace, Fresno.

Brady R Martin to Jolly & Har- rington.....April 20, 19
May 6, 1931--LOT 4 BLK 61, Sierra Vista Addition No. 3, Fresno. Geo A Starr et ux to A J Fowell.....May 4, 19

LIENS FILED

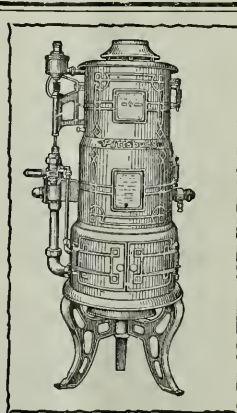
FRESNO COUNTY

Recorded Amount
May 9, 1931--LOTS 1 TO 10 BLK 46, Sierra Vista Addition No. 2, Fresno. S C Ramage vs Routt Lumber Co et al\$2

The average hourly rate for skilled building mechanics is \$1.35 7/8, the prevailing rate for the last two months. Engineering News-Record of New York reports. A year ago it was \$1.38 1/2. The national average for common labor is \$3.94c, compare with \$3.59c. a month ago and \$6.23c a year ago.

Bricklayers and carpenters of Boston, Mass., signed an agreement April 1 to continue under the present wage schedule for the next three years with the five-day week. Sheet metal workers continue on the 44-hour week basis at \$1.37 1/2 per hour.

Although the number of licensee realty brokers in California at this time compares favorably with that of former years, there is a notable decrease in the number of salesmen, although the records of the State Real Estate Department indicate a recent increase in the number of applicants for salesman licenses. Glenn Williams points out in an article in the April number of California Real Estate. This indicates, the writer believes, that the realty business has been carried on through "dry times" by the older and more firmly established brokers and that the recent demand for salesman licenses is evidence of a marked revival in business.



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BUILDING *and* ENGINEERING NEWS

Publication Office
547 Mission Street

SAN FRANCISCO, CALIF., MAY 23, 1931

Published Every Saturday
Thirty-fifth Year, No. 21



OAKLAND
BUILDERS'
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HOW

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San Francisco

Building and Engineering News

Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

Issued Every Saturday

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ROSPERITY VIA 7-HR. DAY WEEK ADVOCATED

The seven-hour, five-day week and a maintenance of high wages are necessary to prosperity, according to Julius Bloch, statistician of the State Department of Industrial Research. Bloch, speaking before the industrial group at the annual meeting of a California Conference of Social Work in Berkeley, stressed the need shorter working hours and continuance of present wages.

Also, said Bloch, captains of industry of the United States are largely responsible for the present unemployment of an estimated 6,500,000 persons this country.

A long time planning program of industry by the various states also is advocated as a means of reducing unemployment.

Frank P. Foisie, industrial relations adviser, Washington posts, advocated coordination of local, state and federal governments in building program.

He said that eventually compulsory employment insurance would come.

G. C. APPROVES PUMP STANDARDS

Standardization of pumps used on construction work as regards sizes and general specifications has received the approval of the Associated General Contractors of America, which has adopted a set of "Contractors' Pump Standards" prepared by the Contractors Pump Manufacturers' Bureau, Munsey Building, Washington, D. C., which will be adhered to by all members of the bureau, Engineering News-Record reports. Two sizes of pumps will be designated as R-50 and R-125. The former will displace 50 g.p.m. or 500-lb. pressure with an engine speed of not over 1200 r.p.m. and 100 g.p.m. at 400 lb., engine speed not over 1500 r.p.m. The latter will displace 125 g. p. m. at 320 lb., engine speed not to exceed 1500 r.p.m. Three sizes of open-type suction diaphragm pumps will be designated at No. 2, No. 4, No. 1 and No. 4 double. General characteristics of these units are:

	Displace- ment	Static Head (Gal. (Ft.) Per Hour) (Hp.)	Motor (Hp.)
single	10	4,000	1 1/2
	20	2,000	
single	10	8,000	2
	20	4,000	
double	10	12,000	3
	20	7,000	

Pumps shall be designed and manufactured to operate continuously at rated capacities, and shall have guaranteed capacity 10 per cent over. A standard rating plate on each unit shall state its size, rating and the fact that it complies with G. C. standards.

CEMENT MERGER RUMOR IS DENIED

No plans have been made and none are contemplated that involve the merger of the Pacific Coast Cement Company with any other cement company or companies in the Pacific Northwest, Vice-President N. D. Moore stated at Seattle last Monday upon returning from a Coast division meeting of the national Portland Cement Association.

Mr. Moore said that while in San Francisco he had conversations with representatives of other Pacific Northwest cement companies, but that nothing had come out of them that would substantiate any such reports as are current.

"There is nothing whatever I can say as to the situation at this time," he declared, "except that rumors to the effect that there is a merger in contemplation in which Pacific Coast Cement Company is involved are not true.

"I read a recent dispatch from San Francisco with reference to something of the kind being under way, but I think it must have been garbled in some way. If it had any foundation whatever, it must have referred to plants in the South, with which the situation here has nothing whatever to do."

LEGISLATURE O. K.'S STREET PAVING BILL

Southern California's bill establishing a debt limit on special assessment projects for street and other public improvements is in the hands of the Governor with Assembly concurrence in Senate amendments.

The Senate wrote into the measure the "majority protest" clause carried in another bill which had been proposed by Assemblymen Lawrence Cobb and Frederick Houser of Los Angeles.

In its present form the bill carries the following provisions on special assessments for public improvements:

Any improvement project shall be automatically held up by majority protest from affected property owners.

Special assessments, if decided upon, shall not exceed 50 per cent of the true value of the property to be improved.

Unanimous vote of the local legislative body to exceed the prescribed debt limit shall be nullified by majority protest from the owners of affected property.

The bill also directs that complete data on each project shall be worked up in advance of any action and that estimates of property values, project costs, and similar information shall be placed in the hands of property owners with full opportunity for public hearings.

The bill grows out of serious over-assessments, particularly in Southern California.

STOCKTON REJECTS LOCAL LABOR LAW

After study by individual councilmen during the last week and hearing of arguments for and against the measure, the City Council of Stockton voted down the proposed "home labor" ordinance by a vote of eight to one.

C. C. Williams, secretary-manager of the Building Trades Council, and P. A. Klingler, steel contractor, spoke in favor of the measure. They declared that Alameda, Oakland, San Francisco, Fresno and Los Angeles have put up similar barriers to outside contractors on public works, requiring them to employ all labor in the particular cities where contracts were awarded. This prevents the employment of Stockton labor on any outside contracts obtained by local contractors, they pointed out.

Attorney Hubert H. Briggs, speaking for the Builders' Exchange, opposed the measure particularly on the grounds that it is a bad policy in view of the city's ambition to attract a larger population, to require new residents to live here 90 days before they can get employment on public projects.

He also declared that many local contractors do more than 50 per cent of their work outside the city and adoption of the law might influence other cities to set up additional barriers against Stockton labor.

HINCKLE IS NAMED HOUSING DIRECTOR

Appointment of Warren Hinckle, licensed architect, as State Housing Director, was announced yesterday by the California Commission on Immigration and Housing.

The office was left vacant recently by the death of Robert Greig, who was killed in an automobile accident. It is a Civil Service position, but the Commission thought it inadvisable to continue without a Director until the next Civil Service examinations, and so temporarily appointed Hinckle, who was approved by J. E. French, chief of the State Industrial Division.

The work of harmonizing the efforts of building inspectors, health officers and architects will occupy Hinckle's immediate attention. He will have charge of such problems for all the territory north of Bakersfield, and will maintain an office at the State Building here.

Hinckle was formerly associated with John J. Donovan, Oakland architect, and more recently has had an office of his own in the practice of architecture.

New orders booked during the first quarter of 1931, as reported to the U. S. Bureau of the Census by 84 manufacturers of electrical goods, were \$181,265,102, as compared with \$208,935,443, for the fourth quarters of 1930 and \$314,329,273 for the first quarter of 1930.

BIG BUSINESS GROUPS WEIGH PLANS TO STIMULATE BUILDING

(Reprint for The Business Week)

Building led the way out of depression in 1921. Remembering this, business men watch the construction industry closely just now for hopeful signs.

They are not numerous.

April building permits showed a rise somewhat larger than seasonal. Both Dan's and Bradstreet's make the most of this in their current reviews. The improvement is believed to be due to pickup in small home building and remodeling, but the figures cannot be broken down far enough to prove this conclusively.

Real estate men have noted a demand in some cities for well-built homes priced up to \$10,000. This demand, however, is narrowly localized.

Strong Backing

Of broader significance is the fact that three separate movements, fathered by strong groups, are directed toward stimulating construction and the real estate market.

Of greatest potential importance, but least likely to be accomplished in time to be useful in the present situation, is the effort to create a central mortgage bank, designed to make a better market for real estate securities. A second movement attempts to organize the great manufacturers of building materials and equipment into a corporation for financing residential building operations in large cities. Various large corporations are considering this seriously, but the project still is in the preliminary stages.

Old Plan Revamped

A third movement really is not new—the financing by manufacturers of home modernization programs—but there is reason to be pushed with new vigor, and with more corporations taking an aggressive part.

All three of these are efforts to improve a situation in the real estate and building field which, to mine words, is bad. Whatever these plans accomplish will be helpful; earnest work may make the situation better, but can hardly make it good.

Here are the three movements:

Central Mortgage Bank

Commercial banks, savings banks, building and loan societies have in their vaults large blocks of mortgages, frozen solid. If there were a central mortgage bank to which these holdings could be taken for rediscount, capital could again be set in motion. For years, the U. S. Building & Loan League has been asking Congress to authorize the charter of a national rediscount bank to which member societies would furnish capital. Nobody in particular opposed the measure, but it has always curled up and died—one of the host of bills that just fail to attain consideration.

The National Association of Real Estate Boards is discussing a national rediscount bank for mortgages. Plans for some such institution are "under way." Both Secretary of Commerce Lamont and President Hoover are said to favor it. Tentative proposals have been submitted for Secretary Lamont's scrutiny. The subject will be thoroughly gone over at the association's convention in Baltimore this month.

A Regional System

It is suggested that the government authorize a central mortgage bank with regional branches, the central bank to be supervisory. Building and loan associations, banks, and mortgage companies would be members of the regional banks, would subscribe their capital, would follow their rules and appraisals. Regional banks would

purchase from members only first mortgages on urban residential property, long term and amortized, limited to 55% or 60% of valuation. The bank would then sell bonds secured by the mortgages and by its resources. The government would not furnish any capital or guarantee the bonds. Regional banks would be non-profit, service institutions. The Building and Loan League agrees in principle with the above, but differs on certain details.

Consummation of such plans takes time. The subject must be carefully studied, differences of opinion compromised. Probably this depression will be over before any such charter is granted.

All countries of Europe and many of South America have long had central mortgage banks. Usually local institutions sell them mortgages which secure bonds marketed to the public. In many instances the governments guarantee these securities. So strong was the demand for the bonds that, before the war, they carried a lower interest rate than the bonds of their governments.

Stood Firm in Storm

That is still true in some cases. None of these banks has been seriously shaken by present conditions. Foreign mortgage bonds have sold well in this country—our holdings now are about \$200 millions.

One of the country's greatest building and real estate operators is pushing the plan to get manufacturers of building equipment and supplies to subscribe to the stock of a corporation, national in scope, which shall stimulate and help finance urban residential projects. Details are well thought out; the plan parallels somewhat the central mortgage bank method. The largest of manufacturers are interested. Meetings have been held; the project is very much alive.

Those who doubt whether much building is needed just now, and who fear it will take a long time to create new financial machinery, pin greater faith on the modernizers.

On National Basis

Sears, Roebuck, the Security Finance Corp. of Washington, Crane Co. and many other separate concerns have gone into modernization of homes by instalment payments. But these are scattered and rival activities. A movement now on foot hopes to put instalment modernization on a national basis. Definite developments are soon to be announced.

A recent survey of the National Association of Real Estate Boards indicates where the existing demand for new homes is heaviest. Of all homes reported sold, 38% were in the \$5,000-\$9,900 range; 26% below \$5,000; 24% from \$10,000 to \$20,000; 12%, over \$20,000.

Razing the Slums

At least there can be no doubt as to the desirability of retiduling the germ-breeding firetraps of our city slums. There is a definite move toward better apartments, parks, and playgrounds. Chicago is determined to raze obsolete and dilapidated structures before its 1933 World's Fair. Louisville plans small parks where now stand sad old mansions degenerated into down-town rooming houses. Salt Lake City is in the throes of a drive to tear down aged tenements. Last year 276 buildings in Memphis were wrecked as unfit for habitation, 690 property owners were ordered to raze shabby structures. Philadelphia has torn down 178 tenements in three years. Since 1918 57 old tenements in Queens Borough, New York, have been demolished. Pittsburgh and

Cincinnati are among the other cities which are replacing obsolete tenements with modern structures and park spaces.

BUILDING ACTIVITY ENCOURAGED BY POPE

According to word from Vatican City, Pope Pius told Cardinal Mundelein of Chicago in a farewell address last Wednesday that he approves and encourages building activity to relieve unemployment. The Cardinal said he would speed up and expand the church building program planned for Chicago.

The Pontiff reviewed building activities sponsored by the Vatican, recalling that he had built 1500 parochial houses in southern Italy and approved construction of 2,000 more.

The Cardinal told him about conditions in Chicago and discussed, among other things, the general economic depression and the necessity for the church to assist in its relief.

HUTCHINSON ESTATE BEQUEATHED TO WIDOW

Dwight Hutchinson, East Bay paving contractor and material dealer, killed recently by explosion of dynamite in his automobile on the Tunnel road, left an estate of over a half million dollars. It was learned with the filing of a petition for letters testamentary in his estate by his widow, Marie Dean Hutchinson.

Mrs. Hutchinson is named the sole beneficiary by Hutchinson.

Others named in the petition as survivors are Mollie H. Peixotto, Paris; Martha H. Ransome, Mt. Diablo, and Isabelle H. Pringle, 605 West Poplar Ave., San Rafael, all sisters of Hutchinson.

Fitzgerald, Abbott and Beardsley of Oakland are attorneys.

RIVERSIDE WILL AMEND PLANNING LAW

The Riverside City Planning Commission has drafted and recommended to council an amendment to the present city zoning ordinance which will permit owners of non-conforming property in residential zones to rebuild or repair their structures to the extent of enlarging them 50 per cent over the present size, on condition the owners meet certain requirements designed to make the stores more attractive to their respective neighborhoods.

These requirements include the one that stucco finish shall be used on the outside and that new wiring and plumbing be installed. This new provision, if adopted, will hold good until June 1, 1933. The effect of the amendment, which is known as the "neighborhood grocery" amendment, is to give a year's grace to owners of non-conforming business property, who cannot now repair or remodel more than 25 per cent of a building.

Several hundred thousand dollars' worth of property throughout the city will be affected by the proposed legislation.

John M. Lessells, formerly manager of the Mechanics Division of the Westinghouse Research Laboratories, has been appointed manager of Engineering in the South Philadelphia Works of the Company, to succeed A. D. Hunt resigned. It has been announced by R. S. Feicht, director of Engineering. The appointment became effective May 1.

RUINOUS PRICE POLICIES IN BUILDING INDUSTRY DEPLORED

A working alliance between the nation's producers and architects to win cheapness and avoid the ruinous price policies of the past in the building industry is urged by Bennett Ice-president of the American Rolling Mill Company, Middleton, Ohio, in a statement made public by the American Institute of Architects. Declaring that the nation is entering a new period of prosperity in which "changing tides" may revolutionize civilization, Mr. Chapple pledged to architects the support of the Producers' Council, the assets of whose member companies, he says, aggregates \$23,500,000,000, whose employees number more than 2,000,000 men, and whose combined sales each year represents a colossal sum.

"The constant development of new materials and new processes to make more and better materials available is the past the Producers' Council must continue to play in the future as in the past," Mr. Chapple asserts. "The fight against cheap imitative materials forces us very legitimate business and innovation."

"Price and price alone brings ruin, and the Producers' Council is ready to join the American Institute of Architects in a war against more cheapness. We must stand together, ready to fight each other's battles for the cause of good material and good architecture."

"It takes the courage of conviction to stand against the demands that are sometimes made for cheap construction, but the result is worth all the strenuous effort it costs. Especially is this necessary at this time as we tarry out on a new era following the drastic depression of the past eighteen months."

"We have been going through a psychological fear. We need most to return to common sense. With one hundred and twenty million people, with an annual income of eighty-billion a year, and an annual savings of sixteen billion, and a total wealth of three hundred and forty billion, we ought to be congratulating ourselves."

"The attitude of mind explains everything. We complain of hard times, yet nobody would want to go back to conditions before the World War. We have learned many lessons. Perhaps the most valuable one is that we can appreciate as never before our dependent we are, one on the other. The workman depends upon his employer, the employer depends upon his workman. The manufacturer upon his buyer, and the buyer upon the manufacturer."

"The men who head these companies of producers make up the business leaders of the nation, business consues, whose names are known throughout the world. The companies that have built these great business enterprises have molded a new world and a new civilization."

"Their scientists are opening new pathways for the progress of mankind. Their research departments are saving and are spending millions of dollars in making available materials of proven merit."

Mr. Chapple describes the changing tides of business which affect the nation's architecture. "These tides," he says, are made up of changing conditions, changing customs, changing habits, and changing methods of doing business."

"In the days before the Civil War," he continues, "all business was practically on a personal basis. There were no corporations to carry on the complicated business of life. The development of the corporation replaced the old order of things, and invested

capital took the place of personal ownership."

"All remember the travail we went through as corporate growing pains fixed themselves on the country. We rioted in trust-busting rages, but in the end the corporate scheme of business took root and today we are served by giants that were beyond the wildest imagination of economists a generation or two ago. And the public who fought the corporations now owns them."

"Then think of the changing tides of business caused by invention. The quill pen gave way to the typewriter; the sail boat gave way to the ocean liner; the horse and wagon gave way to the automobile; the canal gave way to the railroad; the rule of thumb gave way to research; the tawny candidate gave way to electricity; the horse gave way to the tractor; the scythe gave way to the reaper; the reaper gave way to the combine; the cobbler gave way to the shoe manufacturer; the blacksmith gave way to the garage mechanic; the sign and the fire gave way to the telegraph and telephone; the country store gave way to the chain store, the spinning wheel gave way to the loom; the shovel gave way to the trench-digger; the pitchfork gave way to the hayloader; the settler gave way to the incubator and brooder."

"And so it goes—changing tides, every one of which represents new business opportunities that have been quickly seized upon."

"And what of the future? Where is radio taking us? What will television bring? What lies around the corner in research that has already given us rayon to replace silk, and hundreds of synthetic products? What can we expect from the X-ray as it passes from medical science and surgery to industry? What are the secrets of metallurgy? What about airplanes and zeppelins? These are some of the new forces that represent changing tides that are still a long way from their crest."

"Nor is this the complete picture. Back of all these tides are still smaller tides representing the new uses of old things."

"Take the iron and steel industry as one example. In Sangamon County, Illinois, was laid, last fall, the first metal base highway. It was the result of an idea that finally took root. It is too soon to count this anything more than an experiment, but it was the beginning of every change in the tide of human affairs."

"Style changes, too, represent another phase of the restless tides of our daily lives. The soft collar replaced the stiff collar almost over night; corsets went out of style and the corset business went 'bust.' Men never used to think of shaving every day until the safety razor made it convenient; the barber business sank into despair, only to be reinstated by bobbed hair; the old read flannels have gone and E. V. D.'s represent something more than simple letters of the alphabet."

"All these changing tides are bringing new ways to live that affect architecture perhaps as much as any other profession. For instance, the American Rolling Mill Company recently developed the continuous mill for rolling sheet metal, which has now been licensed to most of the big steel companies. You cannot grasp what this will mean in a few short years to the architects."

Since 1752 the old fashioned, laborious method of hand rolling of sheets remained the same. Human perspiration flowed like rivers of water and production was limited by many hu-

man factors. All this is now changed. Slick, smooth running machines grab a six ton, white hot ingot and in a minute and a half convert it into a sheet thirty to thirty-eight inches wide and two hundred feet long, and as thin as a dime.

"Variable factors of individual rolling by hand are eliminated. Tons and tons of sheet metal are now available. Does this mean nothing to the architect? Consider what happened when inventive genius discovered a way to roll the structural steel, with which architects have changed the skylines of the cities. And what is true of the iron and steel industry is more or less true in every channel of human achievement."

U. P. CUTS LUMBER RATE FROM NORTH

Reduction in carload lumber rates from the Pacific northwest interior to the Hoover dam site are announced by A. S. Edmunds, assistant traffic manager of the Union Pacific.

The new rates will be 53 cents 100 pounds to Boulder Junction, making a through rate of 55 cents to Boulder City, Edmunds said. The present rate is 62.5 cents. The 55-cent rate will apply to virtually all Union Pacific system points in Oregon and Washington, Edmunds said.

Edmunds said the new rate would permit interior sawmills to compete with tidewater lumber mills, which can ship their lumber by water to San Pedro and thence by rail to the dam site.

NOTED NOVELIST IS SUED BY CONTRACTORS

Governour Morris, novelist, faces two suits at Salinas for collection of \$16,000.

One suit for \$16,000 was brought by S. H. and W. E. Hooke, claiming that amount was due as unpaid balance on \$40,000 improvements to Morris' palatial Monterey home.

The second suit, for \$12,000, was brought by subcontractors who included the Hookes as defendants. The second suit covered funds the Hookes sought from Morris in his own action. Attorneys said the payment of the original \$16,000 would probably settle both actions.

Attorneys also said they would attempt to eject Morris from his home if he did not settle the claims, which they said were six months past due.

Plant of the E. E. Casey & Lumber Company on the northwest slope of Peavine Mountain near Reno, Nevada, was destroyed by fire May 16. The loss is estimated at \$60,000 of which \$35,000 is covered by insurance.

FREE SKILLED LABOR ON N. C. PRISON JOB

Free workmen will be used for skilled labor in the construction of the new \$400,000 state prison in North Carolina, although the contractor for the building will have to use prisoners for common labor. V. P. Loftis, secretary of the Carolinas Branch of the Associated General Contractors, announced, following a conference with state prison officials in Raleigh recently. A building committee is to be appointed by the Governor to draw up plans for the new prison. Loftis stated, and after the final details of the project are arranged, the committee will take competitive bids on the work. The Carolinas Branch, A. G. C., has pledged its cooperation with the committee in every way possible, Loftis said.

THE OBSERVER

What He Hears and Sees on His Rounds

James Clifford, general manager of the Sugar Pine Lumber Company at Pinedale, was elected vice president of that concern and the Yosemite Lumber Company at the annual meeting of the board of directors of the two milling institutions last week. Clifford has been affiliated with the Sugar Pine Lumber Company for the past two years, succeeding E. A. Cannon as manager.

Five electrical dealers of Santa Cruz will establish a central display room in the Rittenhouse Block, Church street and Pacific avenue, that city. The dealers who have combined in the enterprise are Cox Electric company, John Holt, Frank Carroll, Ervin Smith and the Soquel Electric of Soquel.

The Majestic Electric Appliance Company, Inc., with assets of \$175,000 and liabilities of \$225,000, has today been forced into bankruptcy by three creditors whose claims aggregate \$6300. Federal Judge Frank H. Kerrigan appointed R. W. Dennis as receiver.

The Governor of Montana has signed a law establishing a brick-making plant at the state prison. Bricks will be made by convict labor and are to be used within the prison limits, in order not to offer competition of free labor.

Contractor on \$7,000,000 Pittsburgh, Pa., post office project replaced 22 union structural ironworkers April 11 with non-union piledrivers at \$1.50 per hour, which is the ironworkers' rate, Engineering News Record reports. Building Trades Council charges that the contractor is not paying prevailing rate on this federal project and that he is seeking to establish open shop.

President Hoover has directed the Department of Agriculture to tighten up its regulations governing granting of leases for lumbering operations on public lands, the effect of which will be to virtually eliminate any large operations of this type with the exception of pulpwood lumbering projects in Alaska.

Electrical workers of the Pacific Northwest Public Service Company of Portland, Ore., will refuse to submit to a 10 per cent wage reduction, it is announced by officials of the Electrical Workers union. A meeting of more than 500 company electricians was held. The reduction was to effect union workers July 1.

Modeled after the federal water-power act, a new water appropriation code for the State of Oregon was enacted at the recent session of the legislature. This act creates a hydro-electric commission consisting of the state engineer and two commissioners appointed by the governor to serve without pay. The newly created commission will pass on all applications for appropriation of water from Oregon streams for power purposes. Under terms of the legislative act this body will exercise absolute jurisdiction over construction and financing of power projects with special authority over all power projects built by private capital. Members of the commission except the state engineer

will sit only on occasion demands to stick upon power applications. C. E. Stricklin is state engineer.

The Chicago Building Construction Employers Association has gone on record in favor of wage maintenance. Its statement calls upon public contract awarding agencies and all others interested to make sure that a reasonable wage scale is specified in all work.

Dr. George W. Dowrie, professor of finance at Stanford University, in addressing delegates to the Del Monte convention of the State Building and Loan League declared that the building and loan business in California is suffering from the same set of ailments which are hampering agriculture and practically every other line of activity. But on the whole the situation is far from panicky, he said, and in most ways the building loan associations are in better position than most other lines of finance, he added.

Dr. Dowrie warned the building and loan executives that business conditions in California will not improve permanently until overproduction of homes, subdivisions, agricultural products, and booster propaganda is eliminated. There are also the problems of unemployment, burdensome taxation, costly armaments and general chaotic economic conditions throughout the world to be considered.

Secretary Doak last Monday said the administration would consider general wage reductions by industry a violation of confidence in justifying employes in asking wage increases.

The secretary referred to the agreement which President Hoover obtained from industry and organized labor late in 1929, to maintain the existing scale of wages during the depression.

Doak said he had been advised of no plans by employers for general reductions and had not been formally advised of the statement of President Green of the American Federation of Labor that if a general reduction were attempted labor would be justified in striking in opposition.

The U. S. Supreme Court last Monday dismissed the suit of the state of Arizona for an injunction forbidding the government from carrying out the Boulder dam water and power project on the Colorado river under the present allocation of water and power.

The United States government and six states of the Colorado river basin had filed a motion with the court asking dismissal of the injunction proceedings.

Arizona based its demand on the grounds that the allocation of water was unfair.

California was alleged to have obtained the lion's share of the benefits. The decision is believed to remove the last hitch which might threaten the continuance of work on the project.

The dismissal was without prejudice to Arizona's right to bring another action should her rights appear to be threatened.

No money will be spent by Fresno county during the fiscal year 1931-

1932 for the paving of county high ways. This, it was revealed, is the stand of four members of the board of supervisors. The economy measure is to be adopted in the effort to keep the basic rate down to at least its present level in the face of an estimated decline of not less than \$5,000,000 in the county's assessed valuation.

Approximately 1000 employes of the Empire steel plant at Mansfield, Ohio walked out last Tuesday when informed of a 15 per cent wage cut. Previously it had been announced the reduction would be only 10 per cent. Strike leaders said about 500 high workers would walk out later, causing complete suspension of operations.

A prediction that labor will survive depression and come through as powerful as ever is made by George M. Harrison, president of the International Brotherhood of Railway and Steamship Clerks. Shorter working hours and higher wages, said Harrison, are necessary so that consuming power keeps pace with producing power.

The plant of the Hamilton Window Frame & Door Company at Colma, San Mateo County, suffered a \$17,000 fire loss yesterday. Spontaneous combustion was blamed.

Redwood Lumber Company of Santa Rosa has been purchased jointly by three lumber concerns of that city—the E. U. White, Mead Clark and Sterling Lumber Companies.

Owens-Illinois Glass Company is reported to be investigating sites in Contra Costa County on which to establish a glass factory. Sites in the vicinity of Pittsburg are being favorably considered.

The plant of the Bakersfield Sandstone Brick Company at Bakersfield suffered a \$10,000 fire loss last Monday. Brick making machinery was badly damaged. The loss is partially covered by insurance, according to Jas. Curran, president of the company.

Langlais Electric Company of San Francisco will open a branch at 218 Forest Ave., Pacific Grove, next Monday. The branch will be in charge of E. A. Solomon and will carry a complete line of electrical fixtures and equipment.

Fred Camp has joined the Building Material Division salesforce of the Berger Manufacturing Company and will represent that concern on the floor of the Builders' Exchange.

Ray H. Collins, for the past ten years associated with the Red River Lumber Company, has been named manager of the Reno, Nevada, branch of that company. Previous to his association with the Red River concern, he was with the Verdi Lumber Company and the Clover Valley Lumber Company.

Senator J. M. Inman's bill providing that the general prevailing rate of wages shall be paid on all public works was passed last Wednesday by the assembly. The lower house also approved a bill by Senator Thomas Maloney prohibiting employment of aliens by contractors, or subcontractors on public works, except in cases of emergency.

Hoisting engineers of Philadelphia are said to have offered to accept a wage cut in order to secure an agreement with employers.

ALONG THE LINE

B. J. Ornburn, designing engineer for the Montana state highway commission, has been appointed bridge engineer. Mr. Ornburn is a graduate of the University of Missouri and started his career as a bridge engineer with the Missouri state highway commission. Prior to going to Montana, he was with Ash-Howard-Needles & Tammen, consulting bridge engineers in Kansas City, Mo.

Reno, Nevada, will shortly appoint a city purchasing agent. It is understood the position will be filled by Guy Walts, assemblyman of the 1931 session of the Legislature.

Frederick Adams Reimer, 57, president of the American Road Builders' Association and a member of President Hoover's Permanent International Highway Commission, died in East Orange, N. J., last Monday.

George Sullivan has been reappointed city engineer of Santa Clara, Cal. He will receive a monthly salary and a commission of 5 per cent on all public improvements.

United States District Court at Los Angeles last Monday dismissed an involuntary petition in bankruptcy brought against the United States Building and Loan Association by 3 creditors.

W. H. Hollenbeck, 69, president of the Hollenbeck-Bush Planning Mill at Fresno, died in that city last Monday. Born in Winnebago, Illinois, Hollenbeck came to California 45 years ago and resided there for two years before he went to Fresno.

J. E. Steiger has been named chief deputy surveyor in the office of Geo. Macomber, county surveyor of Stanislaus County. Steiger fills the vacancy caused through the death of Travis Townsend. V. S. McMath of Riverbank, succeeds Steiger as draftsman.

DEMAND FOR MONEL METAL SINKS LOOMS

Public demand, indicated by the almost random sale during 1930 of over 10,000 custom-made monel-metal kitchen sinks, has induced International Nickel Co., Inc., to enter the field with a line of 10 standard models designed for mass production, says The Business Week.

Models are provided in 6 different sizes, listing at from \$140 to \$195 each. Compared to iron enamel equipment, working plans has been increased 31% without greater overall dimensions, through elimination of the wide roll and curve.

Special machinery for the production of the line was designed and built by International Nickel and installed in the plant of Mullins Manufacturing Co., Salem, O., which will do the actual fabricating.

Sales will be handled by direct agents of International Nickel, who will sell to the wholesaler for distribution through regularly established plumbing supply channels. A half million dollars are to be spent in advertising.

HERE—THERE EVERYWHERE

The Governor of Colorado has signed a bill providing for the use of convict labor on state highway construction.

City of Denver, Colo., refuses to award a contract to a low bidder who was reported to have attempted to cut the carpenters' wage rate \$3 per day on a bangar unit at the municipal airport.

Bricks made from street refuse, which formerly were used in Germany mostly for pavements, have since 1928 been also used for building construction. In 1930 187 houses were constructed entirely from these bricks in the eleven German cities where this refuse is burned and the ashes pressed into bricks.

A. S. Holmes, city building inspector of Oakland, reports the issuance of 1470 building permits this year from January 1 representing the expenditure of \$4,076,593 in new construction in Greater Oakland. There have been 270 new residences built and 134 business structures.

Conditions of many labor camps in Salinas Valley are branded "deplorable" by Edward A. Brown, director of camp sanitation, California State Department of Industrial Relations. Unless conditions are remedied at once wholesale arrests will be made, he intimates.

Clare A. Parks has been placed in charge of the Seattle, Wash., office of the Asbestos Bureau, Inc., which includes in its membership the foremost asbestos firms in the Pacific Northwest. In addition to managing the bureau affairs, Parks will have charge of quantity surveys in connection with the use of asbestos and asbestos products in building construction.

The application of contractors for authority to reduce wages has been denied by the Colorado State Industrial Commission.

Building trades unions of Baltimore charge that contractors on two school projects are violating minimum wage laws. In one instance, a wage of \$17 per week under the prevailing rate was paid, according to the charge.

CONTRACTOR CANNOT COLLECT FOR PLANS

Owing to the fact that Prosper Bou, contractor of San Bruno, failed to comply with the state law regulating the practice of architecture in the state of California, he will not be permitted to collect for services in connection with plans which he prepared for the San Bruno city hall extension.

The State Board of Architectural Examiners, through its representative, A. L. Bolton, filed a protest with City Clerk Amil A. Bohm, against the payment of Bou from city funds and at the same time called the attention of City Attorney Rudolph Rassey to the fact that the state law would not permit of payment being made to Bou.

The State Board is supported in its contention by the findings of City Attorney Rassey, concurring with those of the State Board, and he will take the necessary steps to stop payment to Bou.

TRADE LITERATURE

Information regarding the design and use of the Jaeger truck mixer are given in a 50-page catalog TM-31, issued by the Jaeger Machine Co., Columbus, Ohio.

Physical qualities and methods of applying Tinnac air-tightening steel welding rods are explained in a 4-page pamphlet issued by the Taylor-Wharton Iron & Steel Co., High Bridge, New Jersey.

Specifications and uses of the Model GH Trackson McCormick Deering heavy-duty crawler tractor are covered in a 4-page folder, 304 prepared by the Trackson Co., Milwaukee, Wis.

New catalogs have been published by the Sneider Machinery Co., Cedar Rapids, Iowa, covering, respectively, the whirlwind 3½-yd., 304, the B-3 ½-yd. and the model 90 11½-cu. yd. convertible excavators. All three publications are fully illustrated.

The Cooper-Bessemer Corporation, Mt. Vernon, Ohio, is distributing a folder which contains illustrations and specifications of the new stationary Type JT diesel engine. Bore is 11½-in., stroke 15-in. Cylinders are 3, 4, 6 or 8 in number. Rated horsepower are 150-180; 200-240; 300-360; 400-480 when operating within the speed range of 300-360 r.p.m. with cast iron pistons. Although fuel economy, trim lines, enclosure, accessibility, and option of built-in accessories are emphasized points—the most noticeable innovation is the placing of the spray valves and driving levers in a position directly below the cam shaft, easily reached from the engine platform. Removal of the engine head can thus be accomplished without disturbing the fuel injection system. Copies of the folder can be secured by writing the corporation direct.

Catalog 31 of the J. D. Adams Co., Indianapolis, Ind., covers the complete line of road machinery manufactured by this company, including several new machines classified as leaning wheel graders, tandem drive motor graders, a trailer patrol and a retreat mixer. The catalog contains 48 pages and is fully illustrated.

OREGON LUMBERMEN PLAN SALES AGENCY

Although no formal action was taken, lumbermen of the Columbia river district meeting in Portland, Oregon, last Saturday, had under consideration a suggestion that a co-operative organization be formed for the district to act as a selling agency on the Atlantic and Gulf coast.

Operators of mills in several Pacific Northwest centers discussed the Puget Sound Associated Mills, recently organized selling agency after which the Columbia river cooperative would be modeled.

Roy J. Sharp of Tacoma, secretary of the Puget Sound Association said 92 per cent of the manufacturers engaged in intercoastal trade belong to it. The associated mills he said, thru their company, will handle normally about 30,000,000 feet of lumber monthly and will push sales of their product in eastern markets.

WAGE RATE FOR C. G. BRIDGE FIXED

The present standard of wages will be maintained on the Golden Gate bridge project, it was agreed at a conference attended by representatives of the Golden Gate Bridge and Highway District, the labor unions and the Industrial Association of San Francisco.

It was further agreed that this standard scale shall be written into every contract issued for construction of the bridge.

The scale follows: Carpenters, \$9 a day; electrical workers, \$9; iron workers, bridge and structural, \$11; iron workers, reinforced concrete, rodmen, \$9; house smiths and ornamental, skilled in all branches, \$9; engineers, hoisting and portable, \$9; engineers on structural steel, \$11; laborers, \$5.50; painters, \$9; pile drivers, \$9; pile driver engineers, \$10; steam fitters, \$10; auto truck drivers, according to size and capacity of truck, from \$6 to \$3.50 cement workers, \$5.50; cement finishers, \$9, and caulkers, \$7.

The following additional clause is also to be inserted in all contracts, according to the agreement:

"Contractors' attention is directed to the condition prevailing that pile drivers and structural iron workers and certain other crafts are now working on a five-day basis, and also the following conditions concerning overtime:

"Crafts working on a five-day basis demand double time for Saturday and Sunday and other overtime work.

"Where three shifts are employed, seven hours' work constitute a day's work at the rate of eight hours' pay, contractors having the right to determine the number of men to be employed on each shift.

"Common laborers work six days per week, Mondays to Saturdays, inclusive, at straight time, and the hours are from 8 a. m. to 5 p. m., except where more than one shift is employed."

3-YEAR WAGE PACT SIGNED AT SEATTLE

An agreement, effective May 1, which provides for continuing the present wage scale in building operations for the next three years has been entered into by the Seattle Chapter, Associated General Contractors' of America, and the Seattle Construction Council, both representing the employers, and the Seattle Building Trades Council, representing all union building craftsmen.

Senate Balks Salary Increase For Engineer

The Senate last Thursday refused to withdraw from the finance committee a bill which would increase the salary of C. H. Purcell, state highway engineer, from \$10,000 to \$15,000 per year.

The bill, along with several other salary increasing measures, was refused passage from the committee.

The motion to withdraw the bill was made by Senator Roy Fellom, San Francisco. Fellom told the senate the highway engineer's duties have increased rapidly and the position has become one of the most important in the state, with the supervision of \$100,000,000 work per year.

He called attention to the fact that the highway engineer will supervise the construction of transbay bridges.

HIGHWAY BODY TO STUDY GRADE X-INGS

Plans for a study of the grade crossing situation in California that will cover every phase of the subject were discussed last Tuesday by Col. Walter E. Garrison, director of the Department of Public Works, and the members of the California Highway Commission. The study is being undertaken in accordance with a bill passed by the present legislature, and signed by Governor Rolph. It will be made cooperatively by the Department of Public Works and the California Railroad Commission.

The study will include railroad grade crossings built both upon the state and the county highway systems.

Following the conference at Tuesday's meeting of the California Highway Commission, C. H. Purcell, State Highway Engineer, was instructed to immediately proceed in cooperation with the State Railroad Commission to gather data showing the number and location of all railroad grade crossings in California; the approximate railroad and automobile traffic at these points; protective warning designs now installed; the accident record of each of these crossings.

With this data, it is believed that a program of grade crossing eliminations can be formulated that will make possible the early removal of all dangerous crossings from all roads in the state, and the eventual removal of all crossings, other possibly than spur tracks in more or less isolated districts.

The thorough character of the study that is contemplated is indicated by the fact that its cost is estimated at \$50,000. The report will be submitted to the legislature at its session in 1933. Commenting on the conference, Earl Lee Kelly, chairman of the California Highway Commission, said:

"We are going to know by 1933 just how extensive the grade crossing problem is in California. We know what this problem is in our state highway system, and are making very rapid progress in the elimination of these crossings for the state system. There has not been the careful survey made of crossings on county roads and city streets.

"It has been said that the complete elimination of railroad grade crossings in California would cost a billion dollars. Before the next legislature meets, we will know what this cost is, and will not have to guess at it. Moreover, we will know the practical method of proceeding to eliminate them, whether by relocation of railroad or highway, or by building underpass or overpass separation structures.

"We will also know how to better the protection of such crossing as can not be immediately eliminated.

"I feel that the bill for this study as signed by Governor Rolph constitutes a determined effort to solve the grade crossing problem in California, and marks a long step forward in the Rolph highway program."

L. A. REJECTS BOND PROPOSALS

The submission of a \$15,000,000 power bond proposition to the voters at the June 2 election was voted down by the City Council of Los Angeles following a conference between members of the council and power commission.

The bond would cover three propositions, one for a \$7,000,000 generating plant, a second for a \$2,000,000 extension to the city's present electric system, and a third for \$6,200,000 for the construction of an electric line to Boulder dam.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1864).

R-3309-S ENGINEER, preferably E. E. or M. E. graduate, not over 30, single, good personality and considerable mechanical ability, for service work and testing of hydraulic machinery. Must have experience in hydro-electric plant construction or operation. Salary about \$175 per month. Apply by letter with photo. Headquarters, S. F.

R-3559-S SALES ENGINEER, to sell sprinkler systems for outside and inside irrigation. Straight commission. Opportunity for right man. Location, San Francisco.

R-3569-S MECHANICAL ENGINEER experienced in the production of heavy machinery, to design and detail a portable rock crusher. Opportunity for the right man to take financial interest and full charge of engineering in new company. Location, San Francisco.

R-3566-S MASTER MECHANIC and Production Superintendent with can factory experience will be needed for new plant. Men with this experience please apply, stating age, employment record and salary required. Location, California.

R-3565-S JUNIOR COLLEGE Teacher with California credential to teach applied mathematics and surveying. Salary \$2400-3000 a year depending upon teaching experience. Apply by letter with photo and references. Location, Northern California.

BUILDING LOAN COMPANIES MERGE

George L. Eastman, president of the Fidelity Savings & Loan Association, announces consolidation of the Fidelity concern with the Pacific States Savings & Loan Company, bringing together assets of approximately \$109,000,000.

Eastman said a plan had been devised whereby the assets of his association will be taken over by the Pacific States. The plan is subject to the approval of the state building and loan commissioner, H. L. Carnahan.

The last published statements of the associations involved showed Pacific States' resources totaled more than \$72,000,000, while the Fidelity has more than \$37,000,000. Five branch offices of the Fidelity will be merged with Pacific States branches, Eastman said.

Taking a dose of its own medicine and thereby strengthening its no-advertising-signs policy, the U. S. Forest Service has decided to do away with all fire warning signs along main travel roads in the National Forests of the California Region, according to an order issued by Regional Forester S. E. Snow. Fire warning signs will be posted hereafter only at entrances to the national forests. This order does not affect special restrictive fire signs relating to no smoking, camp fire permits, closed areas and the like.

Cosco Bay Lumber Co. proposes to double the storage capacity of its plant at Bay Point in Contra Costa County. A. V. Lucas, plant superintendent, reveals that storage quarters for 20,000,000 feet of redwood is to be provided.

NEED FOR BETTER HOUSING IS TOLD

"Eighty-five per cent of the population of this country wants better places in which to live and the market for home ownership has only been damped up rather than chilled," said Charles H. Watts of New York, President of the Federal Industrial Loan Corporation and General Chairman of the American Construction Council's National Advisory Committee on Slum Clearance, speaking before the luncheon session of the Eighth Annual Spring Meeting of the American Construction Council held at the Biltmore in New York last week.

"The consumer is the gentleman you must eventually know, and if you fail to recognize his place in your picture and build upon satisfaction, will probably not last long. Anyone who does not take that into consideration is going to build a structure that will leave empty houses, empty apartments on his hands.

"No depression, no sense of failures of credit institutions, banks included, no sense of high prices and all that goes with it, is going to dampen that which is the bed-rock of the thing that you are planning for today," Mr. Watts stated, was illustrated by the more than \$66,000,000 that his company during the past year extended in small loan credits to over 400,000 families of this class of the country's population.

"No dearer in this country there will be \$700,000,000 of it extended to that 85 per cent of the population," he added.

"What is needed now," continued Mr. Watts, "is a plan that will link up the available money on one hand with the consumer on the other hand. There is a need for some one in between money and consumer, and it seems to me this Council ought to find a great deal of satisfaction within itself in shortening the distance between the ownership between these two folk who do not understand one another.

"The pulling down of our old rookeries and establishing that which is a decent place in which people are to live in their places, is I know one of the fundamental efforts of this Council. I recognize that right here in New York there is the possibility of doing this in a very large way. We need only the plan. We must pledge ourselves to this 85 per cent—the consumer. He is the market, and he waits on our constructive ideas."

ARBITRARY BUILDING CODE BASIS OF SUIT

A suit against the building code of Fort Wayne, Ind., which may result in legal precedents that will affect building codes in other cities of Indiana has been filed by Ralph Duan, a contractor. He seeks an injunction and damages of \$25,000, naming the mayor, the city, the city attorney, the building commissioner, the board of public works and others as defendants.

The complaint alleges that the building code is invalid because it is an attempt to deprive the petitioner of his property without due process of law in violation of the federal and state constitutions. It also alleges that the code gives the building commissioner arbitrary power to grant or refuse building permits upon a mere whim.

It is charged the code does not grant any appeal from the ruling of the building commissioner, as to whether or not drawings, plans and specifications for buildings are in compliance with the code.

MATERIAL PRICES CONTINUE DOWNWARD

Prices have continued to sag for a number of months, though there has been a scattering of advances in brick, lumber, aggregates and tile wherever there was sufficient buying to encourage a rise, says Engineering News-Record. This is an indication of what would happen to prices in the event of a revival in demand for construction and a proof that prices are low.

The feature of the market continues to be cement. During the month a number of drastic reductions took place in an area wide enough to include Baltimore, Dallas and Seattle. These reductions amounted to 85c. in Baltimore, 54c. in Pittsburgh, 27c. in Dallas, 35c. in Kansas City and 55c. in Seattle. New York also has felt the effect of the price war, bitterest in the Middle West, and the present price is \$1.95, compared with \$2.10 on April 1, \$2.20 in May, 1930, and the previous low of \$1.82 in 1918. The current production rate is 37 per cent of the 260,000,000-lb. capacity, compared with 52 per cent at the end of the first quarter of 1930.

COUNTY MUST PAY FOR USE OF PLANT

No public authority has any right to exact consideration for extension of time on a contract, it was ruled by the supreme court of California, as a result of which George H. Oswald, Los Angeles contractor, was awarded rental at the rate of \$1000 a month for use of an asphalt paving plant by the city of El Centro, which had forced the contractor to lease it at a nominal rental of \$1 per month as a condition of allowing him ten days' additional time to complete a paving contract in that city.

The contract in question was awarded under the 1911 Act and amounted to about \$200,000. It was completed in 1924. Mr. Oswald protested against the city's demand for rental of the paving plant but finally consented rather than have the bonds issued against the job tied up by refusal of the city to accept the work. Later he brought suit which was fought through to the supreme court which remanded it back to the superior court for final trial and to fix a reasonable rental for use of the plant. The only evidence offered was on the side of the contractor, who showed a reasonable rental would be \$1000 a month, which the court allowed for a period of 82 months.

BALDWIN ACQUIRES PELTON WATER WHEEL

Announcement is made that the Baldwin Locomotive Works of Philadelphia, Pa., has acquired all of the subsidiaries of Cramp-Morris Industries, Inc., of Philadelphia, which includes the Pelton Water Wheel Co. of San Francisco; I. P. Morris & DeLaVergne, Inc., and DeLaVergne Engine Co. of Philadelphia; the Cramp Brass & Iron Foundries Co., and the Federal Steel Foundry Co. of Chester, Pa.

The acquisition of these companies by the Baldwin Locomotive Works is in accordance with their policies of obtaining greater diversification of manufacture and is of interest to the Pacific coast as largely increasing the field of activity of the Pelton Water Wheel Co., whose local management remains unchanged.

The Pelton Water Wheel Co. is the largest manufacturer of hydraulic equipment west of Chicago, having been operating since 1889, dealing in building impulse and reaction turbines, valves, governors and pumping

equipment. This company has furnished hydraulic equipment for some of the largest hydro-electric plants in the west, as well as many outstanding installations in South America, India, Japan and other parts of the world.

STRIKERS WIN IN WAGE CUT FIGHT

Empire Steel Corporation, of Mansfield, Ohio, and its 1600 employees reached an agreement last Friday ending a strike that had tied up plant operations here for several days.

Meeting virtually all terms laid down by the workers, the company agreed among other things to rescind a proposed wage cut, which was the general cause of the walkout.

The men quit when notices of 15 per cent reductions were posted declaring they had been led to believe the cut would be only 10 per cent. The company then offered to eliminate the added 5 per cent but the workers refused to accept any reduction and drew up a list of other demands.

Compromising on their demand that unskilled labor be paid a minimum of 46 per hour the workers accepted a 36 cent scale.

BUILDING CHIEFS ELECT OFFICERS

William D. Gulon, building commissioner of Cleveland, Ohio, was elected president of the Building Officials Conference of America, at the seventeenth annual meeting of that body in Toronto, Ont., last month. Philip A. Mason, building supervisor of Hartford, Conn., was elected first vice-president; Wm. F. Hurd, commissioner of buildings, Indianapolis, Ind., second vice-president and John W. Oehmann, inspector of buildings, Washington, D. C., secretary-treasurer.

The convention was attended by eighty officials and representatives of various building material industries.

COURT HOLDS NEON SIGN PATENT VALID

The U. S. Circuit Court of Appeals in Cincinnati has handed down a decision holding the Claude Neon patents to be valid and infringed by the Sunray Gas Corporation.

The decision upholds the findings of the U. S. District Court in Cleveland. The District Court holds the corporate defendant liable for profits and damage and enjoined them from further infringement.

HARDWARE DEALERS OF SACRAMENTO ELECT

J. A. Curnow of Grass Valley will serve as president of the Sacramento Valley Retail Hardware Dealers' Association during the coming year. Curnow is also vice president of the California State Hardware Association.

Other new officers chosen are as follows: A. T. Jones of Grass Valley, vice president; G. W. Carey of Sacramento, secretary; C. M. Burchell of Wheatland, treasurer; L. Gardiner of Isleton, Luther Johnson of Roseville, L. Carpenter of Maxwell, Harold Woodworth of Sacramento, and B. G. Simms, also of Sacramento, directors.

Brazil's nation-wide highway program has been postponed because of the economic situation brought about by the coffee crisis and the political unrest of 1930, according to a statement issued by the U. S. Department of Commerce.

Building News Section

APARTMENTS

Sub-Bids Being Taken.
APARTMENTS Cost, \$20,000
SAN FRANCISCO. W Ashbury St. S
 Frederick St.
 One - story and basement frame and
 stucco apartments (6 apts.)
 Owner—M. Vaissiere, 3567 17th St.
 Architect—R. R. Irvine, Call Bldg.
 Contractor—Young & Horstmeyer, 461
 Market Street.

Preliminary Plans Completed.
APARTMENTS Cost, \$300,000
OAKLAND, Alameda Co., Cal. Loca-
 tion withheld.
 Six - story and basement steel frame
 and concrete apartments.
 Owner and Builder—Harry A. Schus-
 ter, 2424 Curtis St., Berkeley.
 Architect—Willis Lowe, 354 Hobart St.
 Oakland.

Working drawings will be started
 upon approval of preliminary plans by
 owner.

Sub-Bids Being Taken.
APARTMENTS Cost, 35,000
SAN FRANCISCO. N Greenwich W
 Steiner Street.

Three-story and basement frame and
 stucco apartments (twelve 2 and
 3-room apts.)
 Owner—J. Guaraglia, % Architect,
 Architect—R. R. Irvine, Call Bldg.,
 San Francisco.
 Contractor—Robinson & Johnston, 831
 31st Ave., San Francisco.

Sub-Bids Being Taken.
APARTMENTS Cost, \$60,000
SAN FRANCISCO. Buchanan Street
 near Jackson St.

Three-story and basement frame and
 stucco apartments (twelve 3- and
 4-room apts.; steam heat, composi-
 tion roof).

Owner and Builder—T. I. Strand, 471
 Colon Street.
 Architect—R. R. Irvine, Call Bldg.

Preparing Preliminary Sketches.
APARTMENTS Cost, \$75,000
SAN FRANCISCO. Jefferson & Web-
 ster Streets.

Three - story and basement frame,
 stucco and brick apartments (13
 2- 3- and 4-room apts.; 18 ga-
 rages; tile and composition roof.)
 Owner—Ben. Liebman, 1555 Francisco
 Street.
 Architect—R. R. Irvine, Call Bldg.

Preparing Preliminary Sketches.
APARTMENTS Cost, \$75,000
SAN FRANCISCO. Jefferson and Fill-
 more Streets.

Three - story and basement frame,
 stucco and brick apartments (13
 2- 3- and 4-room apts.; 18 ga-
 rages; tile and composition roof.)
 Owner—Ben. Liebman, 1555 Francisco
 Street.
 Architect—R. R. Irvine, Call Bldg.

Preparing Plans.
APARTMENTS Cost, \$16,000
SAN FRANCISCO. Location withheld.
 Two-story and basement frame and
 stucco apartments (two 5-room,
 one 6-room apts.; steam heat, tile
 baths, composition roof).
 Owner—Withheld temporarily.
 Architect—R. R. Irvine, Call Bldg.

Preparing Preliminary Sketches.
APARTMENTS Cost, \$85,000
SAN FRANCISCO. North Point and
 Fillmore Streets.

Three - story and basement frame,
 stucco and brick apartments (13
 2- 3- and 4-room apts.; 18 ga-
 rages; tile roof).

Owner—Ben. Liebman, 1555 Francisco
 Street.
 Architect—R. R. Irvine, Call Bldg.

Reinforcing Steel and Concrete Bids
 Wanted
APARTMENTS Cost, \$150,000
SAN FRANCISCO. Walnut and Clay
 Streets.

Six-story and basement class C rein-
 forced concrete and steel frame
 apartments (30 2- 3- and 4-room
 apts.)
 Owner and Builder—I. Epp, 4745 Geary
 Street.
 Architect—H. C. Baumann, 251 Kear-
 ny Street.

Plans Being Figured.
APARTMENTS Cost, \$100,000
LOS ANGELES, Cal.—5216-30 Holly-
 wood Blvd.

Three-story brick apts. and stores (56
 x 110 x 50 ft.)
 Owner—C. H. Walton, 405 E Colorado
 St., Pasadena.
 Architect—J. A. Larralde, 3539 Wil-
 shire Bldg., Los Angeles.

Sub-Bids Being Taken.
APARTMENTS Cost, \$45,000
BURLINGAME, San Mateo Co., Cal.

Three-story and basement frame and
 stucco apartment building (steam
 heat, composition tile roofing; 15-
 2- and 3-room apts.)
 Owner and Builder—Moore Const. Co.,
 401 Post St., San Francisco.
 Architect—Edwards and Schry, 605
 Market St., San Francisco.

BONDS

TORRANCE, Los Angeles Co., Cal.
 —An election will be held June 9 to
 vote on a \$150,000 bond issue for the
 purpose of providing municipal parks
 and playgrounds within the city of
 Torrance. A. H. Bartlett, city clerk.

CHURCHES

Electrical Bids Wanted—To Close May
 26, 10 A. M.

CHURCH Cost, \$—
SAN FRANCISCO. Punston Avenue
 and Judah St. (St. Anne's Church).
 Plumbing, heating and ventilating for
 Church.

SKILSAW Portable Electric Hand
 Saws (4 models).

SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attach-
 ments.

SYNTRON Portable Electric Ham-
 mers (4 models, motor-
 less).

MALL Flexible Shaft Machines (50
 models).

Electric Drills, Grinders, Buffers,
 Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric
 Tools.

1248 Mission St. UNDERHILL
 San Francisco 7662
 SALES . SERVICE . RENTALS

Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.,
 San Francisco.

Architect—Shea & Shea, 454 Mont-
 gomery St., San Francisco.
 Electrical bids are being taken from
 a selected list of contractors.
 As previously reported, heating and
 ventilating awarded to A. A. Pollia 401
 14th Ave., S. F.; general contract to
 S. Rasori, Call Bldg., at \$186,000;
 plumbing to Dowd & Welch, 3553 16th
 St., at \$3958.

Plans To Be Prepared.
REMODELING Cost, \$—
ANTIOCH, Contra Costa Co., Calif.
 Sixth and G Streets.
 Remodel present church.

Owner—The Methodist Church (Rev.
 W. P. Grant, pastor), Antioch.
 Architect—Not Selected.

Architect Chas. McCall, 1404 Frank-
 lin St., Oakland, will act as super-
 vising architect.

Plans Completed.
CHURCH Cost, \$15,000
DAVIS, Yolo Co., Cal.

One-story reinforced concrete church
 (seating capacity of 250)
 Owner—Roman Catholic Archbishop
 of Sacramento (Rev. J. A. Grealy,
 Parish Priest), Winters.

Plans by George Rossi, 865 Eayshore
 Highway, San Mateo.

Plans will be forwarded to the Arch-
 bishop at Sacramento for approval.

FACTORIES AND WARE- HOUSES

Bids Opened.
STEEL DOORS Cost, \$—
SAN FRANCISCO. Shed on Pier 15.
 Thirty-seven steel rolling doors for
 shed.

Owner—State of California (Harbor
 Commission).

Engineer—Frank White, Ferry Bldg.
 Following is a complete list of bids:

Kennerson Mfg. Co., 361 Bran-	nan Street	\$15,488
Gunn, Carle & Co.	.....	15,836
J. G. Wilson Crop.	.....	16,200
Cornell Iron Works.	.....	17,130
Rolph Mills Co.	.....	17,994
Dwan & Co.	.....	19,000
Bids held under advisement.		

Plans Being Prepared.
ADDITION Cost, \$—
OAKLAND, Alameda Co., Cal. 4701
 Grove Street.

Brick and concrete addition to clean-
 ing plant (30x40x12-ft.)
 Owner—John F. Snow Cleaning and
 Dyeing Works, 4701 Grove Street,
 Oakland.

Architect—R. C. Schuppert, 4637 Park
 Blvd., Oakland.
 Bids will be taken in about 3 weeks.

Plans Being Prepared.
LAUNDRY PLANT

Cost, \$250,000 with equipment
OAKLAND, Alameda Co., Calif. No.
 720 29th Street.

One-story and mezzanine floor steel
 frame and brick laundry (175x250)
 Owner—Oakland Laundry Co. (C. B.
 Calow), 730 29th St., Oakland.

Architect—Miller & Warnecke, Finan-
 cial Center Bldg., Oakland.

Mezzanine floor will provide class-
 rooms, offices, lockers and showers.
 Bids will be taken shortly.

Contracts Awarded.
HOUSE Cost, \$—
 A CLARA, Santa Clara Co., Cal. (ory corrugated iron warehouse with concrete foundations.
 —Santa Clara Walnut Growers' Assn., Santa Clara.
 By W. D. Lotz, 1040 Benton, San Jose.
 Factor—R. O. Summers, 17 N 1st St., San Jose.
Porcing Steel—W. C. Hauck and Co., 200 San Bruno Ave., S. F.
Helicene Iron—Harold Hellwig, 7 W Santa Clara, San Jose.
Work—Chase Lumber Co., 547 W Santa Clara, San Jose.
ing and Sheet Metal—H. Holtzen E San Fernando, San Jose.
ing and Glazing—Cobledick-Kibbe as Co., 656 Howard St., S. F.
ng—Bud. Gallechote, 123 S 3rd St., San Jose.

Selected—Plans Being Revised.
HOUSE Cost, \$20,000
 AND, Alameda Co., Cal. South 10th St. E. Fallon St.
 ictory concrete warehouse.
 —George R. Bormann Steel Co., h and Grove Sts., Oakland.
 —H. H. Bohn, Financial Cntr. Bldg., Oakland.
Bids will be called for at a late date.
RO, Nevada—J. B. Casey Mill & Co. on the northwest slope of Mt. Mountain was destroyed by ay 16. The loss is estimated at \$1, covered by \$35,000 insurance.

ing Working Drawings.
HOUSE Cost, \$40,000
 AND, Alameda Co., Calif. First 10th Market Streets.
 ictory brick and steel frame warehouse (140x150-ft.)
 —Howard Terminal Corp., 1st and Market Sts., Oakland.
ect—Reed and Corlett, Oakland and Bldg., Oakland.
 ict, concrete floors, steel shaft, rolling doors. Plans will be ready in about two weeks.

Contracts Awarded.
HOUSE Cost, \$15,000
 EDA, Alameda Co., Cal. No. 16 Everett Street.
 ictory brick building.
 —Alameda Rug Works, 2006 Everett St., Alameda.
ct by Owner.
id Constr.—J. A. Osterdock, 2006 Everett St., Alameda.
 —A. Hallert, 2500 65th Ave., Oakland.
are—Baker, Hamilton & Pacific Co., 3rd and Market, Oakland.
ing Materials—Rhodes-Jamieson Co., Broadway and Water Sts., Oakland.
ash—Detroit Steel Products Co., 26th and Doyle Sts., Oakland.
 —Sunset Lumber Co., 400 10th St., Oakland.

ject Awarded—Sub-Bids Being Taken.
ING PLANT Cost, \$20,000
 EN, San Joaquin Co., Calif.
 ictory and basement packing plant (wooden frame, concrete basement; capacity 1200 tons).
 —San Joaquin Valley Walnut Growers' Assn., Linden, Calif.
 By John Cavanaugh, 219 N Sutter St., Stockton.
ctor—J. A. Cavanaugh, 219 N Sutter St., Stockton.
 struction will be started May 25.

RAGES AND SERVICE STATIONS

Being Completed.
CE BLDG. Cost, \$50,000
 EJO, Solano Co., Cal. NW So. Ma and Main Sts. (150x150 ft.)

Two-story automobile plant and service building (probably brick construction).
Owner—Acme Motor Co. (Vallejo Ford Dealers), Vallejo.
Architect—Claude Barton, 522 Grand Ave., Oakland.
Bids will be taken in about 1 week.

Sub-Contracts Awarded.
SERVICE STATION Cost, \$7000
 VALLEJO, Solano Co., Cal. Ohio and Sonoma Streets.
Super-service station.
Owner—Central Petroleum Co., 1524 Broadway, Oakland.
Plans by Eng. Dept. of Owner.
Contractor—S. J. Weeks, 331 El Dorado St., Vallejo.
Concrete Work—E. L. Johnston, 814 Monterey St., Vallejo.
Electric Work—Rhodes Electric Co., 328 Georgia St., Vallejo.
Steel—Independent Steel Works, 1820 Chase St., Oakland.

Prospective Bidders.
SERVICE STATION Cost, \$—
 OAKLAND, Alameda Co., Cal. NE Mandana Blvd. and Lakeshore.
Steel frame and brick super service station.
Owner—Standard Oil Co., 225 Bush St., San Francisco.
Architect—Eng. Dept. of Owner.
 Leslie E. Alley, 1621 Encinal Ave., Alameda.
 Lindgren & Swinerton, Inc., 225 Bush St., San Francisco.
 Beave & Spivock, Hobart Bldg., San Francisco.
 W. J. Vaughn.
 W. C. Keating, 4209 Mountain Blvd., Oakland.
Emil Person, 829 San Luis Road, Oakland.
Sullivan & Sullivan, 3927 39th Ave., Oakland.

GOVERNMENT WORK AND SUPPLIES

Preparing Working Drawings.
ADDITION Cost, \$190,000
 BERKELEY, Alameda Co., Cal. Milvia and Kittredge Sts.
Two-story and basement addition to postoffice building.
Owner—United States Government.
Plans by Supervising Architect, Washington, D. C.

Preparing Plans.
POST OFFICE Cost, \$725,000
 LONG BEACH, Los Angeles Co., Cal. Class A post office.
Owner—United States Government.
Plans by Supervising Architect, Washington, D. C.

Preparing Plans.
POST OFFICE Cost, \$140,000
 EL CENTRO, Imperial Co., Cal. Class A post office.
Owner—United States Government.
Plans by Supervising Architect, Washington, D. C.

Preparing Plans.
POST OFFICE Cost, \$75,000
 ALAMEDA, Alameda Co., Cal. Class A post office.
Owner—United States Government.
Plans by Supervising Architect, Washington, D. C.

Preparing Plans.
POST OFFICE Cost, \$145,000
 OROVILLE, Butte Co., Cal. Class A post office.
Owner—United States Government.
Plans by Supervising Architect, Washington, D. C.

HAWTHORNE, Nevada—Until June 10, 11 A. M., under Specification No. 6553, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for excavating sumps at the Naval Ammunition

Plant at Hawthorne, Nevada. The work includes excavation for the enlargement of existing sumps at 84 magazine buildings, and disposal of the excavated material. Plans obtainable from the Bureau at Washington or from the District Public Works Officer, Twelfth Naval District, 100 Harrison St., San Francisco, on deposit of \$10, checks for same to be made payable to the Chief of the Bureau of Yards and Docks.

Commissioned to Prepare Plans.
POST OFFICE Cost, \$—
 RENO, Washoe Co., Nevada. Class A post office.
Owner—United States Government.
Architect—F. J. DeLongchamps, Gazette Bldg., Reno.

SUNNYVALE, Santa Clara Co., Cal.
Healy Tibbitts Construction Co., 64 Pine St., San Francisco, submitted lowest bid to 12th Naval District, San Francisco, for test piles and borings at the Naval Air Base, Sunnyvale.
Following is a complete list of bids received:

- (1) Work complete; (2) add for each additional core boring.
 - Healy Tibbitts Constr. Co., 64 Pine St., San Francisco (1) \$2590; (2) \$490.
 - W. J. O'Neil (1) \$3750; (2) \$150.
 - E. F. Petersen (1) \$3977; (2) \$300.
 - Duncanson Harrelson Co., San Francisco (1) \$4650; (2) \$300.
 - M. E. McGowan, San Francisco (1) \$5143; (2) \$400.
 - Barrett & Hulp, San Francisco (1) \$5293; (2) \$550.
 - Clinton-Stephenson Constr. Co., San Francisco (1) \$6936; (2) \$4.40 per foot.
- Bids held under advisement.

STOCKTON, San Joaquin Co., Cal.
 —Until May 29, 3 P. M., under Order No. 3213-Stk.90, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to furnish and deliver f. o. b. Sacramento: 10,000 ft. 5000 pieces Oregon pine, No. 1 Common, SIS, 1"x2"x12". 2667 ft. 250 pieces Oregon Pine, No. 1 Common, rough, 2"x4"x16". 50 bundles Lath, 4', Oregon Pine, (100 to bundle) 1000 ft. Oregon Pine, 1"x12"x12", No. 1 Com. SIS. 1000 ft. do 1"x12"x16" do. 250 ft. do 2"x4"x12". 250 ft. do, 2"x4"x16" do.

BOULDER CITY, Nevada—D. A. Allred, 223 Hightree St., Pico, and R. G. Clough, 2301 Poplar St., Alhambra, have been awarded contract by the Six Companies, Hoover Dam contractors, for plastering 136 buildings the company has under construction at Boulder City. The buildings include offices, mess halls and dwellings. Plastering operations will start about May 20.

Plans Being Prepared.
POSTOFFICE \$180,000 available
 MODESTO, Stanislaus Co., Cal. 12th St. bet. I and J Sts.
Class A postoffice.
Owner—United States Government.
Plans by Supervising Architect, Treasury Dept., Washington, D. C.
 The Government recently paid \$15,000 for a site purchased from Carl W. Shannon who asked \$16,000 for the land. The remaining \$1,000 was raised by private subscription.

Contract Awarded.
POSTOFFICE Cost, \$118,900
 HOQUIAM, Washington.
Class A Postoffice.
Owner—United States Government.
Plans by Supervising Architect, Treasury Dept., Washington, D. C.
Contractor—Wm. T. Post, Tacoma.

CHILKOOT BARRACKS, Alaska.—Until June 11, A. M., under Circular No. 6616-31-4, bids will be received by Constructing Quartermaster, Fort Mason, to furnish and install three 75-hp. Diesel engines, direct connected to A. C. generators, 3-phase, 2300-volt, 60-cycle, automatic generator, voltage regulator, complete switchboard, accessories, spare parts, etc., and for furnishing and installing two oil storage tanks, all at Chilkoot, Alaska.

No award will be made to a bidder who is not a manufacturer of Diesel engines, and who has not had extensive previous experience in making Diesel engines of like rating for direct connection to electric generators for continuous operation in electric power plants. Bids will be entertained from manufacturers who may offer electrical apparatus or accessories made by other concerns, provided guarantees are made by the bidder that the assembled equipment will be a complete and satisfactory operating unit of co-related design and in accordance with the best standard practice. Generators, exciters, motors and switchboard equipment shall be preferably of one manufacture.

Contract Awarded.
POSTOFFICE Cont. price, \$545,200
OAKLAND, Alameda Co., Cal. 12th, Alice and Jackson Sts. Superstructure of Class A post office. Owner—United States Government. Plans by Supervising Architect, Treasury Dept., Washington, D. C.
Contractor—K. E. Parker, 135 South Park, San Francisco.

Contract awarded on terra cotta alternate. Sub-bids are in and will be awarded shortly.

SAN FRANCISCO.—Following is a complete list of bids received by Constructing Quartermaster, Fort Mason, for purchase of gas water boiler and gas storage heater for Officers' Quarters No. 8 at Fort Miley:

- (1) gas water boiler; (2) gas water heater.
- American Radiator Co., Fourth and Townsend Sts. (1) \$147; (1-a) \$200; (2) \$54.
- P. E. O'Hair, 945 Bryant St., (1) \$148; (1-a) \$210; (2) \$58.
- F. H. Kohler (1) \$190; (1-a) \$253. Crane Co. (1) \$200; (2) \$70; (2-a) \$54.
- T. G. Arrowsmith (1) \$217; (2) \$56. Sands Water Heater Co. (2) \$57.50. Domestic Gas Equip. Co., (2) \$63.
- H. C. Stoeckle Co. (2) \$64.81.
- Hoyt Heater Co. (2) \$66.
- Hoffman Heater Co., (2) \$72.
- Pittsburgh Water Heater Co., (2) \$72.20.
- Pacific Gas Heater Co. (2) \$93.75. Bids held under advisement.

Preparing Working Drawings.
POST OFFICE Cost, \$1,300,000
SACRAMENTO, Sacramento Co., Cal. T Street bet. 8th and 9th Sts. Four-story and basement class A structural steel and concrete post office and Federal building. Owner—United States Government. Architect—Starks & Flanders, Forum Bldg., Sacramento.

Granite base, terra cotta or limestone exterior.

Preliminary Plans Approved
POST OFFICE Cost, \$695,000
STOCKTON, San Joaquin Co., Cal. Class A postoffice. Owner—United States Government. Architect—Bliss & Fairweather, Balboa Bldg., San Francisco. Consulting Architect—Howard G. Bliss, 421 S. Miner St., Stockton.

OAHU, T. H.—E. T. Thurston, consulting engineer, 57 Post Street, San Francisco, is taking subcontract bids for several general contractors of

Honolulu for electrical work, lighting protection, tile and marble, painting, roofing, plumbing, sheet metal, refrigerator, fountains and railroad track materials for the construction of the Naval Ammunition Depot, Oahu, T. H., bids for which are to be opened on June 17.

FORT ARMSTRONG, T. H.—Until June 4, 11 a. m., under Circular No. W-6616-31-50, bids will be received by Constructing Quartermaster, Fort Mason, for furnishing and testing of green sand zeolite water softener at Fort Armstrong, T. H. (Hawaiian Department). Specifications and further information obtainable from Constructing Quartermaster at Fort Mason.

COCO SOLO, C. Z.—Bureau of Yards and Docks, Navy Department, Washington, D. C., extends time for opening bids on aircraft overhaul shop from May 20 to May 27. The work is provided for under Specification No. 6222.

HAWTHORNE, Nevada.—Until May 26, 10 A. M., bids will be received by Bureau of Supplies and Accounts, Navy Dept., Washington, D. C. to furnish oxy-acetylene outfit, woodworking machine, radial drill, paint spray outfit, to the Naval Ammunition Depot, Hawthorne, Nev. Further information obtainable from the Bureau at the above address or from the Navy Purchasing Office, 100 Harrison Street, San Francisco.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Dept., Washington, D. C., to furnish and deliver miscellaneous supplies and equipment for Navy Yards and Stations as noted in the following schedules, further information being available from the Navy Purchasing Office, 100 Harrison St., San Francisco:

- Bids Open June 2**
- Western yards, welded iron pipe; sch. 5720.
- Mare Island, 190 3-cell storage batteries; Mare Island, wood and rubber separators and spares; sch. 5643.
- Western yards, electric and flat irons and electric glue pots; sch. 5717.
- Western yards steel pipe and tubing sch. 5722.
- Western yards, rules and tapes; sch. 5725.
- Western yards, pliers and nippers; sch. 5723.
- Western yards, brass and copper pipe and tubing; sch. 5721.
- Western yards, files; sch. 5728.
- Western yards, mufflers or silencers sch. 5746.
- Western yards, vises; sch. 5729.
- San Diego, 24 metal propeller hubs; 12 do; sch. 5753.

- Bids Open June 9**
- Mare Island, 450 lbs. asbestos rope packing; sch. 5738.
- Mare Island, 38,750 lbs. boiled linseed oil; sch. 5747.
- Mare Island, 1,400 yds. cocoa matting; sch. 5733.
- Mare Island, 7,000 lbs. corrugated rubber matting; sch. 5732.
- Puget Sound, 45 water closet valves; sch. 5774.
- Mare Island, 7,000 lin. yds. jute bur-lap; Puget Sound, 2,000 lin. yds. do; Puget Sound, 7,000 bur-lap jute bags; sch. 5758.
- Mare Island, 2 motor generator sets; sch. 5759.
- Western yards, sash cord, caulking cotton, twine, seine, cotton and chalk lines; sch. 5762.
- Mare Island, machinists' chisels; sch. 5765.
- Western yards, collar iron soil pipe; sch. 5772.
- Western yards, reamers; sch. 5769.

Plans Being Completed.
MISC. BLDGS. Cost, \$15,000
BOULDER CITY, Nevada. Administration Bldg., postoffice, armory and gas house. Owner—United States Government. Plans by U. S. Bureau of Reclamation, Wilds Bldg., Denver.

It is expected bids for construction will be asked about June 15.

Preparing Working Drawings.
POST OFFICE Cost, \$69,000
STOCKTON, San Joaquin Co., Cal. Class A post office. Owner—United States Government. Architect—Bliss & Fairweather, Balboa Bldg., San Francisco. Consulting Architect—Howard G. Bliss, 421 S. Miner St., Stockton.

SAN FRANCISCO.—Until May 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason for repairs to torpedo wharf at Ft. Winfield Scott. Specifications obtainable from above.

OAHU, T. H.—In addition to the previously reported, following prospective bidders for construction in connection with the Naval Ammunition Plant at Oahu, bids for view will be opened June 17 by the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6101:

W. M. Bayley Co., Washington.
D. L. Rathbone & Sons, Inc., Lynn, Va.
Grinnell Co., Washington.

Sub-Contracts Awarded.
POSTOFFICE Cont. price, \$5,000
OAKLAND, Alameda Co., Calif. 13th, Alice and Jackson Sts. Superstructure of class A post office (terra cotta exterior). Owner—United States Government. Plans by Supervising Architect, Treasury Dept., Washington, D. C.
Contractor—K. E. Parker, 135 South Park, San Francisco.

Structural Steel—Judson Pacific Co., 609 Mission St., San Francisco.
Heating—Jas. H. Pinkerton, 927 Ward St., San Francisco.

Plumbing—J. A. Fazio, 402 Castro St., Oakland.

Other awards will be made shortly.

SACRAMENTO, Cal.—Until May 25, 3 P. M., under Order No. 3310-F.R. bids will be received by U. S. Engineer Office, California Fruit Bldg. for launch and barge hire and operation. Further information obtainable from above.

SAN FRANCISCO.—American Radiator Co., Fourth and Townsend Sts. at \$54 awarded contract by Constructing Quartermaster, Fort Mason, for furnishing and installing gas water heater in Officers' Quarters, No. 8 at Fort Miley. Crane Co., 61 New Montgomery St., at \$300 awarded contractor furnishing and installing gas water heater.

HALLS AND SOCIETY BUILDINGS

Preparing Plans.
CLUB Cost, \$100,000
BERKELEY, Alameda Co., Cal. 1st and Bond Roads bet. 5th and 6th Sts. Two-story and basement frame at (to replace east wing recently burned; steel lockers, etc.)
Owner—Berkeley Tennis Club, Tunnel Road and Domingo St., Berkeley.
Architect—Roland I. Stringham, 100 California St., San Francisco.

It is expected to start construction shortly.

Contracts Awarded.
EQUIPMENT
 LIVERMORE, Alameda Co., Cal.
 Furniture and equipment for Veterans' Memorial Bldg.
 Owner—County of Alameda.
 Architect—Henry H. Meyers, K o h l Bldg., San Francisco.
 Following contracts were awarded:
 American Studios, 1060 Polson St., San Francisco, stage curtains, etc., \$748.75.
 Dashi-Thoms, 2335 Broadway, Oakland, canvas floors, \$185.
 Dohrman Hotel Supply Co., 13th and Clay Sts., Oakland, kitchen equipment \$174.65.
 Levenson Co., 325 Market St., San Francisco, pans etc., \$92.22.
 Blumner - Holbrook Co., 1235 Mission St., San Francisco, kitchen utensils, \$255.37.
 Otis File and Furniture Co., 532 16th St., Oakland, file cabinets, \$38.
 Peck & Hill, Park and Hubbard Sts., Oakland, curtains, desks, etc., \$1098.63.
 Poon Pottery Co., 55 Clay St., San Francisco, dishes, \$244.50.
 Rucker Fuller Co. 539 Market St., San Francisco, mirror, \$8.30.
 C. L. Robinson, rugs, etc., \$1492.75.
 Fred Turner, Stockton, projection screen, \$80.
 Bids for writing desks for men's club rooms rejected.

Prospective Bidders.
MEMORIAL Cost approx. \$20,000
VACAVILLE, Solano Co., Cal.
 One-story and basement Veterans' Memorial Building.
 Owner—County of Solano.
 Architect—Kent & Hass, 525 Market St., San Francisco.
 Following contractors have secured plans:
 Larsen & Larsen, Russ Bldg., San Francisco.
 Fred. J. Westlund, 625 10th Street, Oakland.
 Wm. Spivock, Hobart Bldg., S. F.
 Jensen & Pedersen, 3443 Adeline St., Oakland.
 H. H. Larsen, 64 South Park, San The Minton Co., Palo Alto.
 Guth & Fox, 1523 27th Ave., Sacramento.
 Glens Falls Indemnity Co., 354 Pine St., San Francisco.
 Chas.unger, 4532 T St., Sacramento.
 Mabrey - Conner Const. Co., Forum Bldg., Sacramento.
 George Barenich, 921 Kentucky St., Vallejo.
 George Hudnutt, 1915 S St., Sacramento.
 John E. Branagh, 184 Perry Street, Oakland.
 Gaubert Bros., 4735 Brookdale Ave., Oakland.
 Frank Cross, 828 Excelsior, Oakland.
 Gene Kenyon, Sacramento.
 Bids will be received by the county clerk until June 1st, 9 A. M. (to be opened 11 A. M.) Plans and specifications obtainable from architect and county clerk upon deposit of \$20.00.

Preparing Working Drawings.
MEMORIAL BLDG. Cost, \$50,000
GRASS VALLEY, Nevada Co., Calif.
 S Auburn Street.
 One- and two-story reinforced concrete veterans' memorial building.
 Owner—County of Nevada.
 Architect—Wm. E. Coffman and M. W. Sahlgren, Forum Bldg., Sacramento.
 Bids will be taken in about 30 days.

Steel Trusses and Miscellaneous iron contracts Awarded.
LODGE BLDG. Cost, \$30,000
MOUNTAIN VIEW, Santa Clara Co., Calif.
 Two-story steel frame and reinforced concrete lodge building (the roof, auditorium to seat 600; lounging rooms; electric heat).

Owner—Leon Roberts Post, American Legion, % Jas. M. Graham Jr.
 Architect—A. A. Cantin, 544 Market St., San Francisco.
 Contractor—Carl Lindholm & Sons, Chiquita Ave., Mountain View.
Steel Trusses & Miscellaneous Iron—San Jose Iron Works, 535 W-San Carlos St., San Jose.
 Sub-bids are being taken on all other portions of the work.

Contract Awarded.
CLUB Cost, \$10,000
BERKELEY, Alameda Co., Cal. Tunnel Road and Domingo St.
 Two-story and basement frame club (to replace east wing recently burned; steel lockers, etc.)
 Owner—Berkeley Tennis Club, Tunnel Road and Domingo St., Berkeley.
 Architect—Roland I. Stringham, 260 California St., San Francisco.
 Contractor—J. P. Michelson, 1630 Alcatraz Ave., Berkeley.

To Take New Bids May 25.
MEMORIAL BLDG. Cost, \$15,000
ABURN, Placer Co., Cal.
 One-story and basement frame and stucco Veterans' Memorial Bldg.
 Owner—County of Placer.
 Architect—W. E. Coffman, Forum Bldg., Sacramento.
 All previous bids were rejected. Complete list published May 14th.

HOSPITALS

SAN FRANCISCO—Gunn, Carl & Co., Ltd., 444 Market St., at \$1,286 awarded contract by City Purchasing Agent for Duraflex Flooring in the Laguna Honda Home, under Proposal No. 714. Bid follows. Floor is to be installed over the old cement floor of the 2nd floor corridor, Supt. of Nurses bathroom, drug store workroom, Asst. Resident Physician's bathroom, cook's pantry, hall and storeroom of kitchen. Time, 15 days, \$1,286. Extra charge for covering existing base with two coats of Duraflex Flooring, \$0.05 per lin. ft. Charge for additional flooring; as may be ordered, \$27 per sq. ft.

Contract Awarded.
COTTAGES Cost, \$—
PATTON, San Bernardino Co., Calif. State Hospital.
 Fourteen frame cottages.
 Owner—State of California.
 Architect—George B. McDougall, Public Works Bldg., Sacramento.
 Contractor—Fred Walsh, San Bernardino, \$21,392.
Electric Work—Aylsworth Elec. Co., Inglewood, \$598.
Plumbing and Heating—Munger and Munger, Pasadena, \$7826.

Plans Being Completed.
HOME Cost, Approx. \$250,000
SAN FRANCISCO. University and Cambridge Streets.
 Two and three-story reinforced concrete and brick Home For Aged.
 Owner—Lick Old Ladies Home.
 Architect—Alfred Coffey and Martin Rist, Phelan Bldg., San Francisco.
 Plans will be ready for bids about June 1.

Plans To Be Prepared.
DEPENTNY HOME Cost, \$25,000
VISITA, Tulare Co., Cal. County detention home.
 Owner—County of Tulare.
 Architect—To Be Selected.
 The county has \$11,000 available for the structure and proposes to secure additional funds to finance erection of a \$25,000 structure in compliance of a request of the County Grand Jury. The present building is a two-story frame and inadequate to meet the present demands.

HOTELS

Contract Awarded.
HOTEL Cost, \$—
LAS VEGAS, Nevada.
 Masonry hotel (16 room).
 Owner—Carnero Bros.
 Architect—Paul A. Warner, Las Vegas Nevada.
 Contractor—Findley Constr. Co., 548 S. Spring St., Los Angeles.
 Stucco exterior, air conditioning system, swimming pool, tennis courts and garage. In addition to the hotel, there will be six four-room bungalows and six six-room bungalows.

LAS VEGAS, Nevada—F. A. Silvagni, Price, Utah, has purchased property at the corner of Second and Fremont Sts., Las Vegas, where he proposes erecting a hotel. It will be a reinforced concrete structure, containing from 75 to 100 rooms.

POWER PLANTS

GLENDALE, Los Angeles Co., Cal.—Until 10 A. M., May 23, bids will be received by the Glendale city council for furnishing f.o.b. cars, Glendale, the following:
 Item 1. Five (5) three-pole singlethrow, 600-ampere, 34,500-volt oil circuit breakers, capable of interrupting 1,000,000 KVA at rated voltage. Breakers to be electrically operated, remote control full automatic with trip free relay. Outdoor type. Solenoid for 125 volts, direct current.
 Bushing housings shall be porcelain and bushings shall have a minimum dry flashover of 135,000 volts and a minimum wet flashover of 115,000 volts.
 Breakers shall be equipped with two (2) bushing type current transformers per phase, with ratios of 600, 400, 300 and 200 to 5.
 Bid to include necessary oil, one (1) emergency operating handle, and tank lifter if required.
 Bidders to furnish complete plans, specifications and operating data of apparatus they propose to furnish.
 Item 2. Four (4) outdoor oil insulated potential transformers, 33,000 and 16,500 volts to 110 volts, 220 volt ampere, 50 cycle.
 Item 3. Four (4) outdoor oil insulated current transformers 34,500 volts, ratio 200 to 400 to 5 amperes.
 Bidders to submit specifications and dimensions and delivery date of apparatus they propose to furnish.
 Certified check 10%. G. E. Chapman, city clerk.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Bids Opened.
HOLLOW TILE AND SETTING ARCHITECTURAL TERRA COTTA LEGION BLDG. Cost, \$2,500,000
SAN FRANCISCO. Civic Center.
 Four-story and basement concrete class A Legion Building.
OPERA HOUSE Cost, \$2,500,000
 Six-story class A opera house, seating capacity 4000; standing room, 500.
 Owner—City and County of San Francisco (S. F. War Memorial).
 Architect—G. A. Laneburch, 140 Montgomery St., and Arthur Brown, 231 Kearny Street.
 Mgrs. of Const.—Lindgren & Swinerton, Inc., 225 Bush St.
 Following is a complete list of bids:
 (a) Furnishing and setting hollow tile partitions in Opera House.
 (b) Furnishing and setting hollow tile partitions in Veterans' Bldg.
 (c) to (x) Propositions on setting terra cotta against concrete walls already in place and in advance of concrete backing.

Reed & Reed, Hearst Bldg., (a) \$29,457; (b) \$23,797; (c) \$8662; (d) \$7332; (e) \$8695; (f) \$10,879; (g) \$11,797; (h) \$10,797; (i) \$11,797; (j) \$10,797; (k) \$11,333; (l) \$9930; (m) \$11,230; (n) \$9089; (o) \$17,977; (p) \$16,285; (q) \$17,686; (r) \$15,686; (s) \$6556; (t) \$5342; (u) \$6,600; (v) \$5434; (w) \$9669; (x) \$8979.

Hock & Hoffmeyer (a) \$25,375; (b) \$28,817; (c) \$10,860; (d) \$8085; (e) \$10,860; (f) \$8085; (g) \$14,785; (h) \$11,333; (i) \$14,349; (j) \$11,230; (k) \$13,340 (l) \$10,650; (m) \$13,350; (n) \$11,795; (o) \$21,165; (p) \$16,367; (q) \$19,955; (r) \$15,420; (s) \$7962; (t) \$6140; (u) \$8167; (v) \$6411; (w) \$13,656; (x) \$10,955.

George Barton (a) \$29,737; (b) \$32,725; (c) \$14,752; (d) \$17,078; (e) \$14,431; (f) \$16,447; (g) \$20,856; (h) \$24,377; (i) \$20,506; (j) \$23,972; (k) \$18,565; (l) \$22,325; (m) \$17,977; (n) \$21,615; (o) \$28,493; (p) \$34,125; (q) \$28,898; (r) \$34,575; (s) \$9252; (t) \$11,212; (u) \$9252; (v) \$11,212; (w) \$14,569; (x) \$17,535.

H. E. Drake (a) \$33,900; (b) \$25,255; (c) \$8593; (d) \$10,671; (e) \$8593; (f) \$10,671; (g) \$14,760; (h) \$17,712; (i) \$14,760; (j) \$17,712; (k) \$14,303; (l) \$17,163; (m) \$14,303; (n) \$17,163; (o) \$20,506; (p) \$30,900; (q) \$30,900; (r) \$7795; (s) \$3500; (t) \$7795; (v) \$9560; (w) \$11,200; (x) \$15,100.

White & Gloor (a) \$34,900; (b) \$36,900; (c) \$10,000; (d) \$10,000; (e) \$10,000; (f) \$10,000; (g) \$13,690; (h) \$13,690; (i) \$13,690; (j) \$13,690; (k) \$13,690; (l) \$13,690; (m) \$20,700; (n) \$20,700; (o) \$20,700; (p) \$20,700; (q) \$20,700; (r) \$20,700; (s) \$8300; (t) \$3300; (v) \$3300; (w) \$12,700; (x) \$12,700.

W. A. Rainey & Son, (a) \$32,327; (b) \$35,390; (c) \$11,591; (d) \$11,591; (e) \$11,626; (f) \$11,626; (g) \$15,313; (h) \$15,313; (i) \$12,245; (j) \$13,243; (k) \$14,474; (l) \$14,474; (m) \$13,894; (n) \$13,894; (o) \$23,847; (p) \$23,847; (q) \$22,950; (r) \$22,950; (s) \$7674; (t) \$7,674; (u) \$7794; (v) \$7794; (w) \$11,701; (x) \$11,701.

Larsen & Larsen (a) \$32,277; (b) \$34,406; (c) \$12,335; (d) \$11,900; (e) \$12,335; (f) \$11,900; (g) \$13,666; (h) \$16,509; (i) \$13,666; (j) \$16,500; (k) \$17,143; (l) \$15,421; (m) \$17,143; (n) \$15,421; (o) \$24,750; (p) \$22,000; (q) \$22,600; (r) \$20,500; (s) \$9000; (t) \$8,000; (u) \$9000; (v) \$5000; (w) \$14,600; (x) \$13,800.

Alternates may be seen at this office by those interested. Bids held under advisement.

Contract Awarded.
ADDITIONS Cont. price, \$2,325
SAN BRUNO, San Mateo Co., Cal.
Minor additions and remodeling city hall.

Owner—City of San Bruno, Emil A. Bohm, city clerk.
Architect—Not Given.
Contractor—Joseph Rettencourt, San Bruno.

The addition will consist of several small rooms, exterior plastering, etc.
Following is a complete list of bids:
Jos. Rettencourt, San Bruno.....\$2,325
Prosper Bon 2,918
A. Mattson 2,350
T. Magnusson 3,490
R. C. Stickle 4,057

Plans Completed.
POLICE STATION Cost, \$60,000
SAN FRANCISCO, Golden Gate Park
One-story reinforced concrete police station.
Owner—City and County of San Francisco.
Architect—Weeks & Day, Financial Center Bldg., San Francisco.
Plans are awaiting approval.

SAN JOSE, Santa Clara Co., Cal.—
County courthouse fire loss is estimated at \$300,000, including contents. Temporary county office quarters will be established by the county supervisors at once pending the determina-

tion to proceed with construction of permanent quarters.

Contract Awarded
LIBRARY Cost, \$6553
TEHACHAPI, Kern Co., Cal.
Fireproof branch county library.
Owner—County of Kern.
Architect—Not Given.
Contractor—W. A. Croft, Bakersfield.
Complete list of bids published in issue of May 19.

REDWOOD CITY, San Mateo Co., Cal.—Abbott & Jensen, Redwood City, at \$693 awarded contract by county purchasing agent for cleaning and painting dome of county courthouse, exclusive of flag pole which was awarded to Jam N. Ridley, Palo Alto, at \$50.

Completing Plans.
ARMORY Cost, \$25,900
YUBA CITY, Sutter Co., Cal.
One-story frame and stucco armory.
Owner—State of California.
Architect—Charles F. Dean, California State Life Bldg., Sacramento.

Bids will be called in about two weeks.

RESIDENCES

Plans Being Figured.
RESIDENCE Cost, \$18,000
PALO ALTO, Santa Clara Co., Calif.
Stanford University Campus.
Two - story and basement frame and stucco residence (9 rooms and 4 baths; shakes roof, gas heating system).

Owner—O. H. Blackman, 548 Gerona, Stanford University, Palo Alto.
Architect—Chas. K. Sumner, 57 Post St., San Francisco.

Plans are being figured by selected list of contractors as follows:
William Short, 2121 Waverly Street, Palo Alto.
Osborne & Knight, Palo Alto.
E. J. Schmalleg, 363 Melville Ave., Palo Alto.
About one week will be allowed for figuring the plans.

Contract Awarded.
RESIDENCE Cost, \$50,000
WEST LOS ANGELES, Calif.
Two - story and basement frame and stucco residence.
Owner—Harley Hill.
Architect—Ashton & Denny, 101 No. Robertson Blvd., Beverly Hills.
Contractor—Shoff & Warrington, 1335 Santa Monica Blvd., Beverly Hills.

To Be Done By Days Work.
RESIDENCE Cost, \$5000
LIVERMORE, Alameda Co., Cal.
One-story frame and stucco residence (5 rooms).
Owner—Withheld.
Architect—R. R. Irvine, Cail Bldg., San Francisco.

Sub-Bids Wanted.
RESIDENCE Cost, \$—
SAN FRANCISCO, E Divisadero St. N Jefferson.
Two - story and basement frame and stucco residence (8 rooms and 3 baths).
Owner—F. Heydenfeldt, 727 9th Ave.
Architect—N. R. Coulter, 46 Kearny Street.
Contractor—Gerrit Harder, 1558 46th Ave., and premises.
Sub-bids are wanted on all portions of the work.

To Take Bids In One Week.
RESIDENCE Cost, \$6000
MODESTO, Stanislaus Co., Cal.
One-story and basement frame and stucco residence (Spanish type; 6 rooms, the bath, tile roof).
Owner—R. E. Cadrett, 418 Sycamore St., Modesto.

Architect—G. N. Hillburn, Elks Bldg. Modesto.

Contract Awarded.
BUNGALOW COURT
Cont. Price, \$47,338
SAN CARLOS, San Mateo Co., Cal.
One-story frame and stucco bungalow court.
Owner—Withheld.
Architect—Ernest Norberg, 580 Market St., San Francisco.
Contractor—George W. Williams Co. Ltd., 1404 Broadway, Burlingame.

Plans Being Completed.
RESIDENCE Cost, \$15,000
STOCKTON, San Joaquin Co., Calif.
One-story and basement frame and stucco residence (9 rooms).
Owner—G. F. Schuler, 11300 E Webe St., Stockton.
Architect—Jos. Losekann, 1218 West Harding St., Stockton.
Bids will be taken within 1 week.

To Be Done By Day's Work.
RESIDENCE Cost, \$10,000
SAN MATEO, San Mateo Co., Calif.
Fordham Road.
Two-story and basement frame and stucco residence (3 rooms, 3 baths and double garage).
Owner and Builder—Robert H. Smith, 1493 Burlingame Ave., Burlingame.
Architect—Not Given.

Contract Awarded.
RESIDENCE Cost, \$11,500
SAN MATEO, San Mateo Co., Cal.
San Mateo Park.
Two-story and basement frame and stucco residence (3 rooms, 3 baths and double garage).
Owner—D. R. Edwards.
Architect—Benjamin G. McDougall, 333 Sacramento St., S. F.
Contractor—E. T. Leiter & Son, 811 37th St., Oakland.
Cedar shingle roof, automatic gas fired hot air heating system.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7500
STOCKTON, San Joaquin Co., Cal.
1246 W Vine Street.
One-story and basement brick veneer residence (6 rooms).
Owner—Wilkes Griffin, 1428 West Picaudy Drive, Stockton.
Plans by Owner.

Contractor—George Roek, 1724 West Cornell St., Stockton.
Excavation—J. Ewart, 813 E Charter Way, Stockton.
Concrete—F. Kraus, 2726 E Main St., Stockton.

Reinforcing Steel—E. F. Mitchler Co., 1044 E Flora St., Stockton.
Brick Work—R. Davidson, 1432 South Hunter St., Stockton.
Plastering—W. C. Belvan, Sullivan & Anderson Aves., Stockton.
Mill Work—Electric Planing Mill, Hazelton and Monroe Aves., Stockton.
Heating—Fraser Furnace Co., S San Joaquin St., Stockton.
Plumbing & Sheet Metal—W. T. Gibson Co., S Grant St., Stockton.
Electric Work—E. H. Grogan Co., 209 E Channel St., Stockton.
Painting—L. A. Danner Co., 20 North California St., Stockton.
Tile Work—Stockton Tile Co., 1523 E Channel St., Stockton.

Preparing Plans.
RESIDENCE Cost, \$6500
LODI, San Joaquin Co., Cal.
1 1/2-story frame and stucco residence (6 rooms; shingle roof, gas heating system).
Owner—Withheld.
Architect—V. Galbraith, Elks Bldg., Stockton.
Bids will be taken in about 2 weeks.

Contract Awarded.
RESIDENCE Cost, \$10,000
SAN FRANCISCO, Arguello Blvd. near Clay Street.

Two-story and basement frame and stucco residence.
 Owner—J. Wester.
 Architect—E. E. Young, 2002 California St., San Francisco.
 Contractor—Charlie Hammer, 1524 Floribunca Ave., Burlingame.

Plans Being Completed.
 RESIDENCE Cost, \$12,000
 SEBASTOPOL, Sonoma Co., Cal.
 Two-story and basement frame and stucco residence (8 rooms, 2 baths)
 Owner—Chas. Meyers, Sebastopol.
 Architect—William Herbert, Rosenberg Bldg., Santa Rosa.
 Bids will be taken shortly.

Preparing Plans.
 RESIDENCE Cost, \$50,000
 LOS ANGELES, Cal. Ventura Blvd.
 Two-story frame and stucco residence (15 rooms).
 Owner—Edgar Rice Burroughs, 5046 N. Mecca St., Reseda.
 Architect—Rene Rivierre, 137 1/2 N Beverly Drive, Beverly Hills.

Contract Awarded.
 RESIDENCE Cost, \$—
 SAN FRANCISCO, Marina District.
 Two-story and basement frame and stucco residence (8 rooms and 3 baths).
 Owner—F. Heydenfeldt, 727 9th Ave.
 Architect—N. R. Coulter, 46 Kearny Street.
 Contractor—Gerrit Harder, 1558 46th Avenue.

Preparing Working Drawings.
 RESIDENCE Cost approx. \$50,000
 HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and stucco residence.
 Owner—Withheld.
 Architect—Miller and Warnecke, Financial Center Bldg., Oakland.

Preparing Working Drawings.
 RESIDENCE Cost, \$25,000
 HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and stucco residence (8 rooms and 2 baths).
 Owner—E. Collins, % architect.
 Architect—Miller and Warnecke, Financial Center Bldg., Oakland.
 Bids will be taken in about 2 weeks.

Contract Re-Awarded.
 RESIDENCE Cost, \$3400
 PACIFIC GROVE, Monterey Co., Cal.
 Two-story frame and stucco residence (7 rooms).
 Owner—John Benham, Pacific Grove.
 Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
 Contractor—Dan Coon, Dolores and Alta Sts., Carmel.

Construction Postponed Indefinitely.
 RESIDENCE Cost, \$9500
 PACIFIC GROVE, Monterey Co., Cal.
 One-story and basement frame and stucco residence (6 rooms and 2 baths).
 Owner—O. Enea, 9th and Cutter Sts., Pittsburg.
 Architect—A. W. Story and W. W. Hastings, Associated, Pajaro Valley Bank Bldg., Watsonville.

Construction Postponed Indefinitely.
 RESIDENCE Cost, \$11,900
 PACIFIC GROVE, Monterey Co., Cal.
 Two-story and basement frame and stucco residence (7 rooms and 2 baths). (Mission style).
 Owner—Salvadore Enea, 75 W. Eighth St., Pittsburg.
 Architect—A. W. Story and W. W. Hastings, Associated, Pajaro Valley Bank Bldg., Watsonville.

Date of Opening Bids Postponed Until May 27, 2:30 P. M.
 RESIDENCE Cost, \$6,000
 MONTEREY, Monterey Co., Cal.
 One-story and basement frame and

stucco residence (6 rooms).
 Owner—Joe Crevelia, 218 Pacific Ave., Monterey.
 Architect—W. H. Hastings and A. W. Story, 282 Alvarado St., Monterey.
 Following contracts will submit bids:
 S. H. Huoke, Monterey.
 C. W. Dompsey, Pacific Grove.
 Fred McCrary, Monterey.
 Ralph Sharp, Pacific Grove.
 H. D. Coon, Carmel.
 Harold Hoyer, Carmel.

Sub-Bids Being Taken.
 RESIDENCE Cost, \$10,000
 BERKELEY, Alameda Co., Cal. No. 94 El Camino Real.
 Two-story and basement frame and stucco residence (8 rooms).
 Owner—J. C. Stanier.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Contractor—S. M. Chapiro, 1245 Berkeley Way, Berkeley.

Low Bidder.
 RESIDENCE Cont price, \$5740
 MODESTO, Stanislaus Co., Cal.
 One-story and basement frame and stucco residence (Spanish type; 6 rooms; tile bath, tile roof).
 Owner—Richard Linstrom, 426 Bodern, Modesto.
 Architect—G. N. Hilburn, Elks Bldg., Modesto.
 Low Bidder—Leonard Scranton, Modesto.

Date of Opening Bids Postponed Until May 25, 2:30 P. M.
 RESIDENCE Cost, \$5500
 MONTEREY, Monterey County, Calif. Monterey Heights.
 One-story and basement frame and stucco residence (5 rooms; hot air heating; shakes roof).
 Owner—Miss Edna E. McKinley, 926 Harriet St., Monterey.
 Architect—A. W. Story and W. W. Hastings, associated, Pajaro Valley Bank Bldg., Watsonville.

Sub-Bids Being Taken.
 RESIDENCE Cost, \$14,000
 BERKELEY, Alameda Co., Calif. El Camino Real near Uplands.
 Two-story and basement frame and stucco residence (Spanish type, tile roof, gas hot air heating system, tile baths).
 Owner—Withheld.
 Architect—Edwin L. Snyder, 2101 Addison St., Berkeley.
 Contractor—S. M. Shapero, 1245 Berkeley Way, Berkeley.

Sub-Bids Being Taken.
 RESIDENCES Cost each, \$7500
 STOCKTON, San Joaquin Co., Calif. 1827 Allston Way.
 Two 2-story frame and stucco residences (7 rooms each).
 Owner—M. E. Grimsley, premises.
 Architect—Not Given.
 Contractor—J. M. Helterbrand, 2644 E Main St., Stockton.

Sub-Contracts Awarded.
 RESIDENCE Cost, \$—
 OAKLAND, Cal. Morcom Avenue.
 One-story and basement frame and stucco residence (6 rooms).
 Owner and Builder—J. F. Patterson, 1411 High St., Oakland.
 Architect—Not Given.
 Roofing—M. & L. Roofing Co., 9224 Foothill Blvd., Oakland.
 Brick—W. K. Hatfield, 800 Hillside Ave., Oakland.
 Plastering—S. Meska, 2833 Brookdale Ave., Oakland.
 Painting—Chas. Stevenson, 7866 Hillside Ave., Oakland.
 Millwork—Zenith Mill & Lumber Co., 2101 E 18th St., Oakland.
 Heating & Sheet Metal—M. C. Henry, 1183 53rd St., Oakland.
 Plumbing—General Plumbing Co., 4325 E 14th St., Oakland.
 Hardwood floor bids being taken.

Sub-Contracts Awarded.
 RESIDENCES Cost each, \$4000
 OAKLAND, Alameda Co., Cal. 6535-6841 Outlook Avenue.
 Two one-story frame and stucco residences (5 rooms each).
 Owner and Builder—K. A. Johansen, 2832 76th Ave., Oakland.
 Architect—Not Given.
 Plumbing—C. W. Roland, 6547 Foothill Blvd., Oakland.
 Millwork—Hogan Lumber Co., Second and Alice Sts., Oakland.
 Sash and Doors—Hogan Lumber Co.
 Roofing—Steiner Bros., 1140 7th Ave., Oakland.
 Brick Work—C. M. Goodell, 2836 Minna Ave., Oakland.
 Tile—Moir Tile Co., 3944 Walnut, Oakland.
 Painting—A. W. Quigley, 3401 66th Ave., Oakland.
 Plans Being Figured By Selected List Of Contractors.
 RESIDENCE Cost, \$—
 KENTFIELD, Marin Co., Cal.
 Two-story and basement frame and stucco residence (8 rooms and 3 baths).
 Owner—Withheld.
 Architect—W. E. Baumberger, 544 Market St., San Francisco.

Contract Awarded.
 ALTERATIONS Cost, \$—
 PIEDMONT, Alameda Co., Calif. 29 Glen Alpine Road.
 Alterations and additions to residence.
 Owner—Harry J. Fair, 29 Glen Alpine Road, Piedmont.
 Architect—Houghton Sawyer, 2058 Oakland Ave., Oakland.
 Contractor—F. C. Stolte, 2449 Laguna Ave., Oakland.

Preparing Working Drawings.
 RESIDENCE Cost, \$—
 PALO ALTO, Santa Clara Co., Calif. Location withheld.
 Two-story and basement frame and stucco residence (7 rooms).
 Owner—Withheld.
 Architect—Henry H. Gutterson, 526 Powell St., San Francisco.

Plans Being Completed.
 RESIDENCE Cost, \$—
 HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and stucco residence (12 rooms).
 Owner—A. G. Simpson, Hillsborough.
 Architect—W. W. Wurster, 260 California St., San Francisco.
 Plans will be ready for bids in about two weeks.

Bids Being Taken.
 RESIDENCE Cost, \$—
 SAN FRANCISCO, 2423 Leavenworth Street.
 Two-story frame residence (shingle exterior; 14 rooms, 3 baths; hot air heat, electric refrigerator).
 Owner—M. C. Leventritt, 1155 Jones Street.
 Architect—W. S. Wellington, 210 Post Street.

Segregated Bids Being Taken.
 RESIDENCE Cost, \$12,000
 PIEDMONT, Alameda Co., Cal.
 Two-story and basement frame and stucco residence (English style; 9 rooms, 3 baths; gas hot air heat, shingle roof).
 Owner—Sigwald Bros., 916 Alma Ave., Oakland.
 Architect—Ray F. Keefe, 770 Wesley Ave., Oakland.

Preparing Preliminary Plans.
 RESIDENCE Cost, \$12,000
 JACKSON, Amador Co., Cal.
 Two-story and basement frame and stucco residence (7 rooms).
 Owner—Calvin Jackson, Jackson.
 Architect—Harry Devine, California State Life Bldg., Sacramento.

Contract Awarded.
RESIDENCE Cost, \$250,000
MONTECITO, Santa Barbara Co., Cal.
One and two-story and basement
brick, stone and concrete resi-
dence (20 rooms).
Owner—Charles H. Jackson.
Architect—Reginald D. Johnson, Ar-
chitects Bldg., Los Angeles.
Contractor—O. J. Kenyon, 21 East e-
la Guerra St., Santa Barbara.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$—
PIEDMONT, Alameda Co., Calif. 29
Glen Alpine Road.
Alterations and additions to residence.
Owner—Harry J. Fair, 29 Glen Alpine
Road, Piedmont.
Architect—Houghton Sawyer, 2058
Oakland Ave., Oakland.
Contractor—F. C. Stolte, 2449 Laguna
Ave., Oakland.
Heating—Schreffer Bros., 2945 Elm-
wood, Oakland.
Electrical Work—Diamond Elec. Co.,
2100 Hopkins St., Oakland.
Millwork—Pacific Mfg. Co., 353 Hobart
St., Oakland.

Sub-Bids Being Taken.
RESIDENCE Cost, \$7000
BERKELEY, Alameda Co., Calif. 672
Cragmont Avenue.
One-story and basement frame and
stucco residence (Spanish type).
Owner and Builder—John Hedstrom,
73 Alamo Ave., Berkeley.
Architect—Not Given.

Sub-Bids Being Taken.
RESIDENCE Cost, \$5000
RICHMOND, Contra Costa Co., Cal.
Edmond and Bryant Sts.
One-story and basement frame and
stucco residence.
Owner and Builder—Edward Berg, 629
56th St., Oakland.
Plans by Owner.

Plumbing and Heating Bids Wanted.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. 1750
Arch Street.
Three-story frame and stucco resi-
dence (Spanish type).
Owner and Builder—C. V. Harris, 5912
Ayala Ave., Oakland.
Architect—Not Given.
Brick—Alfred Waldie, 2953 California
St., Berkeley.
Millwork—Lannom Brothers, 5th and
Magnolia.
Metal Sash—U. S. Metal Products Co.,
Rialto Bldg., San Francisco.
Steel Girder—Herrick Iron Works, 18th
and Campbell.

Plans Being Figured.
RESIDENCES Cost each, \$3000
GILROY, Santa Clara Co., Cal.
Two 1-story frame and stucco resi-
dences (4 rooms each).
Owner—Withheld.
Architect—Guy Koepf, Carmel.

Plans Being Prepared.
RESIDENCE Cost, \$15,000
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and
stucco residence (8 rooms and 3
baths).
Owner—Lloyd Liebes, Post St. and
and Grant Ave., San Francisco.
Architect—Wm. F. Garren, 233 Post
St., San Francisco.
Bids will be taken shortly.

Painting Bids Wanted.
RESIDENCE Cost, \$130,000
WOODSIDE, San Mateo Co., Cal.
Two-story and basement brick veneer
residence (16 rooms).
Owner—Walter Buck, 309 Pine Street,
San Francisco.
Architect—Farr & Ward, 68 Post St.,
San Francisco.
Contractor—Hamilton Const. Co., 5144
Geary St., San Francisco.
Sub-contracts will be awarded
shortly.

Plans Being Prepared.
RESIDENCE Cost, \$15,000
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and
stucco residence (8 rooms and 3
baths).
Owner—Lloyd Liebes, Post St. and
and Grant Ave., San Francisco.
Architect—Wm. F. Garren, 233 Post
St., San Francisco.
Bids will be taken shortly.

SCHOOLS

Contract Awarded.
COLLEGE BLDG. Cont. Price, \$21,160
SAN FRANCISCO. W. Farren Ave. N
Eddy Street.
Three-story frame and brick veneer
college building.
Owner—California College of Chiro-
pody, 1770 Eddy St., San Francisco
Architect—Coffey & Rist, Phelan
Bldg., San Francisco.
Contractor—J. Harold Johnson, Hearst
Bldg., San Francisco.

SAN FRANCISCO.—Barron's United
Maintenance Co., 115 Turk St., at \$8,-
550, under Proposal No. 707, awarded
contract by City Purchasing Agent,
for window cleaning for the school de-
partment for the fiscal year 1931-32.

Plans Being Prepared.
RENOVATE SCHOOL Cost, \$15,000
MARTINEZ, Contra Costa Co., Calif.
(Alhambra School).
Renovate high school (painting, and
plastering, addition to heating sys-
tem; 2-story concrete building).
Owner—Alhambra Union High School
District.
Architect—W. H. Weeks, 525 Market
St., San Francisco.

Plans Completed.
SCHOOL \$15,000 Available
UKIAH, Mendocino Co., Cal. Redwood
Valley District.
One-story school (4 classrooms and
auditorium) (reinforced concrete
walls).
Owner—Redwood Valley Union School
District.
Architect—William Herbert, Rosen-
berg Bldg., Santa Rosa.
Bids will be advertised for shortly.

Plans Being Figured—Bids Close June
1, 8 P. M.
SCHOOL Cost, \$2400
SANTA ROSA, Sonoma Co., Cal. (Bur-
bank Grammar School).
Plumbing system for school and finish
toilet rooms.
Owner—Santa Rosa School District.

%F. O. Fryor, 1505 13th St., Santa
Rosa.
Architect—William Herbert, Rosen-
berg Bldg., Santa Rosa.

To Ask Bids In One Week.
SCHOOL Est. Cost, \$180,000
SAN FRANCISCO. Claremont Blvd.
and Taraval Street.
Two-story Class B reinforced concrete
school.
Owner—City and County of San Fran-
cisco.
Architect—Dodge Reidy, Pacific Bldg.,
San Francisco.

Plans Being Figured—Bids Close June
2, 4 P. M.
SCHOOL Cost, \$20,000
EMERYVILLE, Alameda Co., Cal.
One-story brick elementary school (4
classrooms).
Owner—Emeryville Elementary School
District, Emeryville.
Plans by Samuel Arnold, 3 4 9 9 San
Pablo Ave., Oakland.

Plans Being Figured—Bids' Close June
2, 4 P. M.
SHOP Cost, \$10,000
EMERYVILLE, Alameda Co., Cal.
One-story shop (steel trusses, stucco,
tile walls).
Owner—Emeryville High School Dist.
Plans by Samuel Arnold, 3499 San
Pablo Ave., Oakland.

Prospective Bidders.
ADDITION Cost, \$10,000
MODESTO, Stanislaus Co., Cal. High
School Site.
One-story brick addition to high
school.

Architect—Davis-Perace Co., Grant &
Weber Sts., Stockton.
Following contractors have secured
plans:
L. Ubels, Ripon.
M. F. Varozza, 1011 5th St., Mo-
desto.
J. H. Graham.
H. Tennyson, 125 Poplar St., Mo-
desto.
H. H. Henning, 1751 Berkeley St.,
Stockton.
Swanson & Chance, Turlock.
Bids are to be opened June 1, 1:30
P. M.

SANTA BARBARA, Cal.—Until 2 P.
M., May 27, bids will be received by
the Santa Barbara board of education
1235 Chapala St., Santa Barbara, for
electrical work and mechanical equip-
ment for the Santa Barbara Junior
high school. Cashier's or certified
check or bond for 10% must accom-
pany each bid. Plans may be obtain-
ed from Architect W. H. Weeks, 525

ORNAMENTAL WIRE AND IRON WORK

IRON WIRE Fence and Gates

TENNIS COURT ENCLOSURES
WIRE SCREENS AND GUARDS

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86-863 Howard Street * * * * 'Phone SUTter 1136

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arket St., San Francisco, upon de-
 nation at the office of the board
 of education in Santa Barbara. E. C.
 (gate, clerk.
 following contractors have secured
 bids:

Heating
 Money & Winterbottom, 2425 Hunt-
 st., Los Angeles.
 McKnam Bros., San Pedro.
 Contract Hardware Co., 727 State Street,
 Santa Barbara.
 Weeney Heating Co., Santa Bar-
 bara.

Electrical Work
 Lynn's Electric Co., Santa Barbara.
 California Electric Co., 26 E. Vic-
 toria St., Santa Barbara.

OAKLAND, Calif.—Pacific Painting
 & Decorating Co., Oakland, at \$1,691
 submitted lowest bid to Board of Edu-
 cation, 104 Administration Building,
 Oakland, for exterior painting of Oak-
 land Technical High School.

Following is a complete list of bids:
 Electric Painting & Decorating
 Company \$1,691
 R. A. Miller 1,935
 Placed Company 1,950
 C. Brown Roofing Co. 2,122
 A. Turgeon 2,450
 Van Pelt 2,570
 C. Lovett Spray Painting Co. 2,477
 Bids held under advisement.

Bids Being Figured.
 SCHOOL \$15,000 Available.
 CLAH, Mendocino Co., Cal. Redwood
 Valley District.
 One-story school (4 classrooms and
 auditorium) (reinforced concrete
 walls).
 Owner—Redwood Valley Union School
 District.
 Architect—William Herbert, Rosen-
 berg Bldg., Santa Rosa.

Bids Being Figured—Bids Close June
 1, 7:30 P. M.
 SCHOOL ANNEX Cost, \$2,000
 UREKA, Humboldt Co., Cal.
 One-classroom annex to Lincoln Pri-
 mary School.
 Owner—Eureka Grammar School Dis-
 trict, Geo. B. Albee, City Supt. of
 Schools.
 Architect—Not Given.
 Certified check 5% payable to Eureka
 Grammar School District re-
 quired with bid. Plans obtainable from
 City Supt. of Schools.

Ask Bids In One Week.
 COLLEGE Cost, \$45,000
 SANTA ROSA, Sonoma Co., Cal.
 School unit of Junior College (to house
 six science laboratories and two
 classrooms; offices and rest rooms;
 brick construction).
 Owner—Santa Rosa Junior College
 District.
 Architect—W. H. Weeks, 525 Market
 St., San Francisco.

SAN FRANCISCO—Until June 8, 3
 P. M., under Proposal 721, bids will
 be received by Leonard E. Leavy, city
 purchasing agent, 270 City Hall, to
 furnish linoleum to city for fiscal year
 1931-1932. Specifications and further
 information obtainable from above.

Bids Wanted—To Close May 28th, 8
 P. M.
 REMODEL SCHOOL Cost, \$2500
 WILLOW GLEN, Santa Clara Co.,
 Calif.
 Finish 2 classrooms in present school
 (blackboards, plastering, flooring,
 heating system, etc.)
 Owner—Willow Glen School District.
 Architect—Wolfe and Higgins, Realty
 Bldg., San Jose.

Preparing Preliminary Plans.
 SCIENCE BLDG. Cost, \$202,000
 SAN JOSE, Santa Clara County, Cal.
 Three-story and basement reinforced
 concrete Science Building.

Owner—State of California.
 Architect—Ralph Wyckoff, Growers
 Bank Bldg., San Jose.
 Associate Architect—Chas. McKenzie,
 Twoby Bldg., San Jose.

Plans Being Figured—Bids Close June
 9th, 8 P. M.
 SCHOOL Cost, \$15,000
 CLARKSBURG, Yolo Co., Cal.
 One-story brick addition to grammar
 school (add two classrooms).
 Owner—Clarksburg Grammar School
 District, Clarksburg.
 Architect—Charles Deana, California
 State Life Bldg., Sacramento.

Plans Being Figured—Bids Close June
 1, 2 P. M.
 SCHOOL Bonds of \$7000 voted
 VISALIA, Tulare Co., Cal.
 School building (2-classrooms, office,
 toilet rooms, etc.)
 Owner—Linwood School District, Lu-
 cas Pluttsch, Clerk, R. R. 4, Box
 329, Visalia.
 Architect—E. W. Peterson, Mason
 Bldg., Fresno.

Certified check 10% payable to dis-
 trict required with bid. Plans ob-
 tainable from the architect on deposit
 of \$10, returnable.

Bids Opened.
 ADDITION Cost, \$—
 CHICO, Butte Co., Calif.
 One-story brick assembly hall addition
 Owner—State of California.

Plans by State Department of Public
 Works, Division of Architecture,
 Geo. E. McDougall, state architect
 Public Works Bldg., Sacramento.
 The addition will have pile founda-
 tions, concrete floors, brick walls, tile
 partitions, concrete and wood roof
 construction and tile and composition
 It will have floor area of approximate-
 ly 5664 sq. ft.

Following is a complete list of bids:
General Work
 (1) deduct for omitting certain por-
 tion of building.
 A. Frederick Anderson, 1093 Long-
 ridge Road, Oakland, \$28,942; (1) \$4-
 750
 The Minton Co., Palo Alto, \$29,727;
 (1) \$5397.
 Campbell Const. Co., Sacramento,
 \$30,876; (1) \$4674.
 C. J. Hopkinson, Sacramento, \$31-
 140; (1) \$5062.
 O. S. Almie, San Francisco, \$31-
 767; (1) \$5000.
 Chas. Unger, Sacramento, (\$32,972;
 (1) \$5728.
 Wm. Spivock, San Francisco, \$35-
 000; (1) \$4600.

Plumbing
 W. H. Robinson, Monterey Park,
 \$2,038; (1) \$40.
 Woodland Plumbing & Hardware
 Co., Woodland \$2,097; (1) \$9.
 Scott Plumbing & Electric Co., Sacra-
 mento, \$2,322; (1) \$67.

Luppen & Hawley, Sacramento, \$2-
 568; (1) \$76.

Heating
 W. H. Robinson, Monterey Park,
 \$2,280; (1) \$29.
 Woodland Plumbing and Hardware
 Co., Woodland, \$2,543; (1) \$20.
 Luppen & Hawley, Sacramento, \$2-
 683; (1) \$270.

Scott Plumbing & Electric Co., Sacra-
 mento, \$2,957; (1) \$274.

Electrical Work
 Roy M. Butcher, 1020 Sherwood,
 San Jose, \$1,311; (1) \$67.
 Apex Electric Co., San Francisco,
 \$1,485; (1) \$113.

Cox Electric Co., Red Bluff, \$1,500;
 (1) \$75.
 Reliable Elevator Works, Sacra-
 mento, \$1,550; (1) \$112.
 George Wolfe, Oakland, \$1,550; (1)
 \$121.

Luppen & Hawley, Sacramento, \$1-
 815; (1) \$117.

Plumbing & Heating (Combined Bid)
 W. H. Robinson, Monterey Park,
 \$4,300; (1) \$265.

Woodland Plumbing and Hardware
 Co., Woodland, \$4,490; (1) \$229.
 Carpenter & Mendenhall, Sacra-
 mento, \$1,593; (1) \$367.
 Bids held under advisement.

Contract Awarded.
 SCHOOL Cost, \$—
 OAKLAND, Alameda Co., Cal. Pied-
 mont Highlands.

Two-story and basement reinforced
 concrete parochial school.
 Owner—Roman Catholic Archbishop
 of San Francisco, 1100 Franklin St.,
 San Francisco.
 Architect—H. A. Minton, Bank of
 America Bldg., San Francisco.
 Contractor—Thomas F. L. Furlong,
 460 Jerome Ave., Piedmont.

Contract Awarded.
 SCHOOL Cont. price, \$87,900
 YUBA CITY, Sutter Co., Cal.
 Two-story brick elementary school.
 Owner—Yuba School District, C. F.
 Taylor, Roy E. Cassidy and Eliza-
 beth Z. Littleton (cler), trustees
 of district.
 Architect—Davis-Pearce Co., Grant &
 Weber Sts., Stockton.
 Contractor—Mathews Constr. Co.,
 Forum Bldg., Sacramento.

To Take Bids In One Week.
 SCHOOL Cost, \$80,000
 SAN FRANCISCO, Sixteenth and Do-
 lores Streets.
 Two-story and basement reinforced
 concrete and steel frame parochial
 school.

Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.,
 San Francisco.
 Architect—H. A. Minton, 525 Market
 St., San Francisco.
 Engineer—L. H. Nishkian, 525 Market
 St., San Francisco.

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Mechanical Engineers—Leland & Haley, 58 Sutter St., San Francisco.

Will be known as Mission Dolores School. Father John Sullivan is pastor of the Mission Dolores Church.

SAN FRANCISCO.—Until May 25, 3 P. M., under Proposal No. 723, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish 68 stereopticons for School Department. Specifications obtainable from above.

Bids Wanted—To Be Opened June 2, 7 P. M.

SCHOOL ADDITIONS Cost, \$—
OILDALE, Kern Co., Cal.
Alterations and additions to existing school buildings.
Owner—Standard School District, B. L. Marble, Clerk.
Architect—Chas. Biggar, Haberfeld Bldg., Bakersfield.

BERKELEY, Alameda Co., Calif.—Berkeley Board of Education proposes to expend \$20,730 during the coming year to finance the following school improvements, the work to be undertaken by the Maintenance Department:
Emerson—Replace chandeliers in auditorium and re-wire building, \$2241.
Franklin—Enlarge cafeteria, \$3500.
Jefferson—Improvements to heating plant, \$500.

Le Conte—Re-roof and paint roof of primary building \$756; install fire alarm system to all buildings, \$300.
Lincoln—Paint all outside woodwork of building, \$450; improve auditorium ventilation system, \$600; improvements to heating plant, \$375.
McKinley—Re-wire all buildings to conform with electric code, \$13123.

Oxford—Change location of and rebuild switchboard as recommended by State Accident Commission, \$400.

U. C. Elementary—Paint all doors and windows and waterproof outside of building, \$700.

Burbank Junior High—Replace decayed foundations and underpinning, 10,000; paint shingle roofs with fire-retarding material, \$1000.

Edison Junior High—Paint showers and toilets in gymnasium, \$400.

High School—Improvements to heating system, \$1500; install toilets in Grove street building, \$3000; rebuild switchboard for shops, \$1000; rearrange all electrical wiring and connect to new panel for power distribution, \$1000.

Bids To Be Asked At Once.
SCHOOL IMPROVEMENTS Cost \$—
BERKELEY, Alameda Co., Cal.

General repairs and improvements to schools.

Owner—Berkeley City School District, Dr. Lewis T. Smith, city superintendent of schools.

Architect—Not Selected.

Washington School—New heating plant, \$6000.

Willard Junior High—New water tank for gymnasium, \$800.

Jefferson School—Surfacing school yard, \$11,000; fencing grounds, \$3600.

Thousand Oaks—Installing toilet-injecting system in auditorium, \$1000.

Garfield Junior High—Fencing, \$3,500; grading playground, \$1000.

Burbank Junior High—Level grounds around new gymnasium, \$4600; culvert in creek, \$6000; fencing, \$2500.

Columbus School—Fencing, \$2150.

Sub-Contracts Awarded.
GYMNASIUM Cost, \$37,000
MONTEREY, Monterey Co., Cal.

One-story reinforced concrete and tile gymnasium and reinforced concrete and tile swimming pool.

Owner—Monterey Union High School District.

Architect—Swartz & Ryland, Spazier Bldg., Monterey.

Contractor—W. J. Ochs, American Trust Bldg., San Jose.
Reinforcing Steel—Jose Steel Co., Rialto Bldg., San Francisco.

Lumber—Work Lumber Co., Monterey Rock, Sand and Cement—Central Supply Co., Monterey.

Millwork—Lannon Bros. Mfg. Co., 5th and Magnolia Sts., Oakland.

As previously reported, structural steel awarded to Golden Gate Iron Works, 1541 Howard St., San Francisco; plumbing to Anderson & Dougherty, Salinas; heating to Barton-Oil-O-Matic, Monterey; electrical work to D. Searle, Monterey; hardware to Baker, Hamilton & Pacific Co., 700 7th St., San Francisco; swimming pool to Anderson & Dougherty, Salinas; miscellaneous iron to Frauneder Iron Wks., 335 8th St., Oakland.
Roughing in work only to be done at this time. Contracts on all other portions of the work will be awarded after July 1.

Complete list of bids published April 27.

BANKS, STORES & OFFICES

Plans Being Figured.
STORE Cost, \$6000
CHICO, Butte Co., Cal. Third Street bet. Main and Broadway.
One-story reinforced concrete store.
Owner—J. H. Morrison.
Architect—Cole & Brouhard, 1st National Bank Bldg., Chico.

May 21, 1931

Plans To Be Prepared.
ALTERATIONS Cost, \$—
SAN FRANCISCO, E. Grant Ave. between Post and Sutter Sts.
Alterations to store and loft building.
Owner—Not Given.

Architect—Bertz, Winter & Maury, 210 Post St., San Francisco.

Lessee—Podesta & Baldocchi, Prem.

It is expected to call for bids about August 1st.

Planned.
LOFT BLDG. Cost, \$1,750,000
LOS ANGELES, Cal. SE Seventh and Los Angeles Streets.

Thirteen-story and basement Class A store and loft (281x150-ft.)

Owner—M. J. Connell, M. J. Connell Bldg., Los Angeles.

Architect—J. Thomas Payne, 321 W. 23rd St., Los Angeles.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$35,000
SAN FRANCISCO, Stockton and O'Farrell Streets.

Alterations to two-story and mezzanine floor store (class C construction); structural steel in building to be re-used.

Owner—Imperial Realty Corp.
Architect—G. Albert Lansburgh, 140 Montgomery Street.

Contractor—Barrett & Hilp, 918 Harrison Street.

Structural Steel—Western Iron Works 141 Beale Street.

Glass—Habenicht & Howlett, 529 Clay Street.

Sub-bids are wanted on plumbing, heating, sheet metal, roofing and mill work.

Sub-Contracts Awarded.
STORE, ETC. Cost, \$—
MONTEREY, Monterey Co., Cal. Alvarado Street.

Two-story reinforced concrete store building, social hall, etc. (Spanish type).

Owner—E. B. Gross, Reeside and Wave Sts., Monterey.

Architect—Swartz & Ryland, Spazier Bldg., Monterey.

Mgr. of Constr.—R. Sharpe, % Owner. Concrete—J. C. Warrington, Pacific Grove.

Brick—E. H. Raymond, Pacific Grove. Steel Work—San Jose Iron Works, 555

W-San Carlos St., San Jose.
Plumbing—Barton Oil-O-Matic, Monterey.

Sub-Contracts Awarded.
STORE, ETC. Cost, \$—
MONTEREY, Monterey Co., Cal. Alvarado Street.

Two-story reinforced concrete store building, social hall, etc. (Spanish type).

Owner—E. B. Gross, Reeside and Wave Sts., Monterey.

Architect—Swartz & Ryland, Spazier Bldg., Monterey.

Mgr. of Constr.—R. Sharpe, % Owner. Metal Trusses—San Jose Iron Works 535 W-San Carlos St., San Jose.

Miscellaneous and Ornamental Iron—San Jose Iron Works, 353 W-San Carlos St., San Jose.

Preparing Plans.
NEWSPAPER BLDG. Cost, \$100,000
PASADENA, Los Angeles Co., Ca

Fair Oaks Ave. and Union St. Two-story and basement reinforced concrete newspaper building.

Owner—Pasadena Post, Pasadena. Architect—Bennett & Haskell, First Trust Bldg., Pasadena.

Low Bidder.
MARKET Cost, \$20,000
NORTH BERKELEY, Alameda Co. Calif. Solano Avenue.

One-story brick drive-in market with tile roof.

Owner—R. O. Long, 2122 Shattuck Ave., Berkeley.

Architect—Paul Dragon, Mercantile Bank Bldg., Berkeley.

Low Bidder—W. E. Lyons, 354 Hobar St., Oakland.

Sub-Contracts Awarded.
STORE Cost, \$250,000
SACRAMENTO, Sacramento Co., Cal

Two-story reinforced concrete and steel frame store.

Owner—S. H. Kress Co., Western Pacific Bldg., Los Angeles.

Architect—John Fleming, 1031 South Broadway, Los Angeles.

Contractor—Lindgren & Swinerton, Inc., California State Life Bldg., Sacramento.

Marble Work—Vermont Marble Co., 244 Brannan St., San Francisco.

As previously reported, excavation awarded to J. B. Reeves, 12th and American River, Sacramento; piles to Raymond Concrete Pile Co., Hunter-Dulin Bldg., S. F.; structural steel to Minneapolis Steel Co., Sharon Bldg., E. F.; reinforcing steel to Thomas Scollan, 2919 T St., Sacramento.

Sub-Contract Awarded.
STORE Cost, \$25,000
OAKLAND, Alameda Co., Cal. Broadway.

One-story and basement Class C steel frame, concrete and hollow tile department store.

Owner—Isadore Weinstein, 1041 Market St., San Francisco.

Architect—Wm. Knowles, 1214 Webster St., Oakland.

Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco.

Metal Sash—Truscon Steel Co., Call Bldg., San Francisco.

As previously reported, wood roof trusses awarded to Summerbell Truss Co., 354 Hobar St., Oakland, reinforcing steel to W. S. Wetenhall Co., 17th and Wisconsin Sts., San Francisco; lumber to Sunset Lumber Co., 400 High St., Oakland; structural steel to Judson-Pacific Co., 609 Mission St., San Francisco.

Preliminary Plans Being Prepared.
STORE Cost, \$—
OAKLAND, Alameda Co., Cal. Broadway near 19th Street.

One-story store (10x100-ft.)

Owner—Albert E. Kern and Samuel Hamburger.
Architect—Reed & Corlett, Oakland Bank Bldg., Oakland.

Sub-Bids Wanted.
ALTERATIONS Cost, \$35,000
SAN FRANCISCO Stockton and O'Farrell Streets.

Alterations to two-story and mezzanine floor store (Class C construction); structural steel in building (will be re-used).

Owner—Imperial Realty Corp.
Architect—G. Albert Lansburgh, 140 Montgomery St., San Francisco.
Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.

Sub-bids are wanted on plumbing, heating, sheet metal, roofing and mill work.

Preparing Preliminary Plans.
STORE Cost, \$—
OAKLAND, Alameda Co., Cal. Broadway near 20th Street.

One-story store building (20x55; L-shaped).
Owner—Harvey B. Lyon, 25 Crocker Ave., Oakland.
Architect—Reed & Corlett, Oakland Bank Bldg., Oakland.

Mill Work Bids Wanted.
ALTERATIONS Cost, \$35,000
SAN FRANCISCO Stockton and O'Farrell Streets.

Alterations to two-story and mezzanine floor store (Class C construction); structural steel in building (will be re-used).

Owner—Imperial Realty Corp.
Architect—G. Albert Lansburgh, 140 Montgomery St., San Francisco.
Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.

Contracts Awarded.
OFFICE Cost, \$2,000
SAN FRANCISCO Napoleon St. and E. Va Ave.

One-story frame office building.
Owner—Chas. R. McCormick Lumber Co., 215 Market St.
Architect—J. E. Kraft & Sons, Phelan Bldg.

Electric Work—Central Electric Co., 179 Minna St.
Plumbing—Anderson & Rowe, 45 Belcher Street.

Steel Work—Mortensen Const. Co., 608 Indiana St.
Concrete—S. A. Chase, 80 Douglas St.
Reinforcing Steel—Gunn, Carle & Co., 444 Market St.

Structural Steel Contract Awarded.
STORE Cost, \$25,000
OAKLAND, Alameda Co., Cal. Broadway.

One-story and basement class C steel frame, concrete and hollow tile department store.

Owner—Isadore Weinstein, 1041 Market St., San Francisco.
Architect—W. J. Knowles, 1214 Webster St., Oakland.

Contractor—Jacks and Irvine, 74 New Montgomery St., San Francisco.

Structural Steel—Judson Pacific Co., 609 Mission St., San Francisco.

As previously reported, wood roof trusses awarded to Summerbell Truss Co., 354 Hobart St., Oakland; reinforcing steel to W. S. Wettenhall Co., 17th and Wisconsin Sts., San Francisco; lumbar to Sunset Lumber Co., 400 High St., Oakland.

Planned.
OFFICES Cost, \$300,000
BERKELEY, Alameda Co., Cal. Durant and Ellsworth Sts.

Ten-story class A medico-dental bldg. Owner—Withheld (corporation being formed).

Architect—Hyman & Appleton, 63 Post Street, San Francisco.

Sub-Contracts Awarded.
STORES Cost, \$1,000,000
OAKLAND, Alameda Co., Cal. NW 28th St. and Broadway.

Eight-story and basement class A reinforced concrete furniture display rooms and stores, 1,002,280 ft.

Owner—Pacific States Auxiliary Corp. Lessee—John Bruner Co., 15th and Clay Sts., Oakland.

Architect—Albert F. Roller, 1st National Bank Bldg., San Francisco.
Engineer—H. J. Bruner, 380 R. A. Bldg., San Francisco.

Contractor—P. J. Walker Co., Sharon Bldg., San Francisco.
Sprinkler System—Turner Co., 325 Tehama St., San Francisco.

Heating & Ventilating—Herman Lawson, 465 Tehama St., San Francisco.
Miscellaneous and Ornamental Iron—Michel & Pfeffer Iron Works, Harrison and 10th Sts., San Francisco.

Sidewalk Lights & Doors—P. H. Jackson Co., 415 Bryant St., San Francisco.
Steel Rolling Doors—Rolph Mills & Co., 525 Market St., San Francisco.

Kalmein Doors—Forderer Cornice Works, 269 Potrero Avenue, San Francisco.
Sheet Metal—East Bay Sheet Metal Works, 1101 Market St., Oakland.

Masonry—W. A. Rainey, 323 Clementina St., San Francisco.
Tile (Interior)—Rigney Tile Co., 3012 Harrison St., Oakland.

Marble—American Marble Co., 25 Columbus Square, San Francisco.
Sub-Contracts Awarded.
STORE Cost, \$5000
VALLEJO, Solano Co., Cal.

Rebuilding store (recently destroyed by fire).
Owner—Rhodes Electric Co., 328 Georgia St., Vallejo.

Architect—Not Given.
Contractor—S. J. Weeks, 331 El Dorado St., Vallejo.

Heating & Plumbing—R. G. Winchell, 511 Virginia St., Vallejo.
Painting—Fred Barnewitz, 1315 Napa St., Vallejo.

Electric Work—Owner.

Bids opened
STORE Cost, \$26,000
PACIFIC GROVE, Monterey Co., Cal. One-story and mezzanine floor reinf. Concr. Dept. Store.

Owner—Rose Bros., Pacific Grove.
Architect—A. W. Stout, Pajaro Valley Bank Bldg., Watsonville, and W. W. Hastings, 232 Alvarado St., Monterey.

Following is a complete list of the bids received:

Ralph Sharpe, Pacific Grove.....	\$17,532
Fred Scrary, Monterey.....	37,778
George R. Denn.....	18,000
C. J. Raymond, Monterey.....	18,896
G. E. Halsted, Monterey.....	19,777
W. P. Sweeney, Monterey.....	19,935
J. J. Groden & Co., Alameda.....	20,755
Harold Geyer, Carmel.....	20,675
M. J. Murphy, Carmel.....	21,000
H. J. Coon, Carmel.....	22,350
H. Sino, Pittsburg.....	22,356

Bids held under advisement.

WHARVES AND DOCKS

LONG BEACH, Cal.—Consolidated Lumber Co., 122 W. Jefferson St., Los Angeles, awarded contract by city harbor commission at \$602,50 for furnishing L. O. B. Pier No. 1, Inner Harbor or Municipal Pier A, Outer Harbor, approximately 135,000 B. ft. 2x12-1, creosoted Douglas fir, rough. Specifications H. D. 54

Preparing Plans.
MUSEUM, ETC. Cost, \$750,000
GRIFFITH PARK, Los Angeles Co., Calif.
Observatory, planetarium and museum of science.

Owner—Col. Griffith J. Griffith Memorial Fund.
Architect—John Austin and F. M. Ashley, Chamber of Commerce Bldg., Los Angeles.

The funds for this project, amounting to \$750,000, were provided through the will of the late Col. Griffith J. Griffith. The architectural contract is subject to the approval of the Security First National Bank and Van M. Griffith.

LONG BEACH, Cal.—R. D. Van Alstine, 410 East 9th St., Long Beach, consulting engineer for the Neptune Pier Co., has applied to the city building department for a permit to construct a trestle and creosoted pile wharf for three boat landings at Silver Spray Pier. The trestle will be 14x 14ft ft. and the wharf 30x24. The estimated cost is \$50,000. This is part of the Neptune Pier Co.'s \$1,000,000 pier project for which bids will be taken in the near future.

SAN FRANCISCO—Until May 26, 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason, for repairs to torpedo wharf at Fort Winfield Scott. Specifications obtainable from above.

OAKLAND, Cal.—Duncanson - Harrison Co., deYoung Bldg., San Francisco, at \$31,814.90 awarded contract by City Port Commission, Oakland Bank Bldg., Oakland, to furnish and drive foundations for warehouse "C" Outer Harbor.

MISCELLANEOUS CONSTRUCTION

POMONA, Los Angeles Co., Cal.—Until 2 P. M., June 8, bids will be received by the Los Angeles County Supervisors for the construction of a steel and concrete grandstand at the Los Angeles County Fair Grounds, Pomona. The proposed structure will be 42x142 ft. by 79 ft. in height. It will seat 10,300. The building will contain dressing rooms, offices, rest-rooms, exhibit rooms, kitchen and cafeteria. Estimated cost \$320,000. Plans obtainable from Mamie B. Beatty, county clerk.

ALAMEDA, Alameda Co., Cal.—Following bids received by city council for resurfacing south tennis court at Lincoln Park:

(a) drain from net toward base; (b) drain from base toward net.	
W. H. Larsen (a) \$744; (b) \$1244.	
Heafey Moore Co., Oakland (a) \$.20 per lin ft. for redwood board (1a) \$.87.50 per ton for asphaltic mixture; (b) \$.25 per lin ft. 2x8" redwood board; (1b) \$.73.00 per ton asphaltic mixture.	

Bids under advisement.

SAN MATEO, San Mateo Co., Cal.—City council rejects bids to furnish and install traffic signals at intersection of 12th Ave. and Hobart Ave. with El Camino Real and the insulation will be made by the city forces. Bids received were: City Imp. Co., \$1,939; Butte Elec. & Mig. Co., \$2,056; alternate bid, \$1,730; L. N. Zant, San Mateo, \$2,095; Atlas Elec. Co., San Mateo, \$2,989.

Preliminary Plans Completed.
ARMORY Cost, \$60,000
SALINAS, Monterey Co. Howard and Salinas Sts. and Lincoln Ave.
One-story reinforced concrete armory (seating capacity 50 to 1,500).
Owner—State of California.
Architect—Keopp & Campbell, Carmel.
Preliminary plans awaiting approval of state.

Contract Awarded.
 PHONE STATION Cost, \$15,000
 POINT REYES, Marin Co., Cal.
 Reinforced concrete trans-Pacific tele-
 phone receiving station.
 Owner—Trans - Pacific Communication
 Company.
 Plans by Engineering Dept. of Owner.
 Contractor—MacDonald & Kahn, Fi-
 nancial Center Bldg., San Fran-
 cisco.

Preparing Working Drawings.
 STAGE BLDGS. Cost each \$100,000
 CULVER CITY, Los Angeles Co., Cal.
 Washington Blvd.
 Two frame and stucco sound proof
 stage buildings.
 Owner—R. K. O. Fethe Studios, Wash-
 ington Blvd., Culver City, Wash.
 Plans by Eng. Dept. of Owner.

SAN FRANCISCO—Until June 1,
 3 p. m., under Proposal No. 726, bids
 will be received by Leonard S. Leavy,
 city purchasing agent, 270 City Hall,
 to furnish sprinkling systems for the
 (a) Ocean View Playground;
 (b) Potrero Hill Playground;
 (c) St. Mary's Playground.
 Specifications and further informa-
 tion obtainable from above.

BOULDER CITY, Nev.—Until June
 5, 2 P. M., under Specification 524-D,
 bids will be received by U. S. Bureau
 of Reclamation, Las Vegas, Nev., to
 construct Pumping Plant No. 2 for
 the Boulder City water supply, Boulder
 Canyon Project, Arizona-Califor-
 nia-Nevada. The location of the work
 is approximately 2 3/4 miles northeast
 of Boulder City, Nevada.

The work consists of the construc-
 tion of concrete foundations and the
 erection of the building which is of
 steel frame construction with stucco
 walls on metal lath and clay tile roof,
 involving approximately the following
 quantities:
 lump sum, construction of building 17x
 30-ft.;
 125 cu. yds. excavation, common;
 5 cu. yds. excavation, solid rock;
 30 cu. yds. backfill;
 25 cu. yds. concrete.

Materials will be furnished by the
 Federal Government. Specifications
 obtainable from above office.

SACRAMENTO, Cal.—Until May 29,
 10 A. M., bids will be received by H.
 V. Hall, county clerk, to install
 sprinkling system for lawn at the
 county hospital grounds. Certified
 check 10% payable to Chairman of the
 Board of Supervisors required with
 bid. Specifications obtainable from
 County Engineer, Chas. Deterding.

**MISCELLANEOUS SUPPLIES
 AND MATERIALS**

OAKLAND, Cal.—General Electric
 Co., 562 11th St., Oakland, at approx.
 \$600 awarded contract by East Bay
 Municipal Utility District to furnish a
 quantity of electric lamps for district
 use.

BERKELEY, Alameda Co., Cal.—
 Until May 26, 10 a. m., bids will be re-
 ceived by Florence E. Turner, city
 clerk, to furnish rock and screenings
 to be delivered as ordered, during the
 fiscal year commencing July 1, 1931.
 Certified check \$100 required with bid.
 Specifications and further information
 obtainable from clerk.

BERKELEY, Alameda Co., Cal.—
 Until May 26, 10 a. m., bids will be
 received by Florence E. Turner, city
 clerk, to furnish sand as ordered to
 the Corporation Yard, Alston Way
 and West street, during the fiscal year
 commencing July 1, 1931. Certified
 check for \$100 required with each
 bid. Specifications and further infor-
 mation obtainable from clerk.

**SAN FRANCISCO BUILDING PERMITS FOR APRIL, 1931
 CLASSIFIED ACCORDING TO OCCUPANCY**

House Keeping Dwellings	Number	Cost	No. of Families
One-family dwellings	240	\$ 958,600	240
Two-family dwellings	6	56,000	12
One- and two-family dwell with shops	1	4,000	1
Multi-family dwellings (3 or more)	5	192,800	70
Total new residential buildings	252	\$1,212,400	325
Factories, etc.	2	460	
Private garages	5	1,675	
Gasoline and service stations	7	30,400	
Public buildings	2	245,000	
Public works, etc.	1	80,000	
Sheds, etc.	2	900	
Stores, etc.	7	16,573	
Total new non-residential bldgs	26	\$ 375,008	
Alterations			
Residential buildings	187	\$ 85,885	
Non-housekeeping dwellings	6	6,202	
Non-residential buildings	102	127,326	
Total alterations, additions and repairs	295	\$ 219,413	
Installation permits	130	\$ 30,612	

**OAKLAND BUILDING PERMIT SUMMARY
 FOR MONTH OF APRIL, 1931**

Classification of Bldgs.	No. of Permits	Cost
One-story dwellings	53	\$191,320
Two-story dwellings	11	66,000
One-story stores	2	7,500
One-story warehouse	1	1,175
One-story brick boiler room	1	125
One-story brick factory	1	3,200
One-story brick storeroom	1	2,000
One-story concrete garage	2	1,050
One-story concrete store	1	23,000
Eight-story concrete store	1	500,000
Concrete retaining wall	1	400
One-story steel warehouse	1	49,976
One-story steel comfort station	1	750
Steel bunkers	1	8,000
Portable Oven	1	1,750
Billboards	3	600
Electric signs	38	10,901
Roof signs	1	450
Marquee	1	1,000
One-story garages and sheds	49	8,261
Additions	68	35,160
Alterations and repairs	76	36,285
Total	315	\$945,203

**BERKELEY BUILDING PERMITS FOR
 APRIL, 1931, CLASSIFIED**

	No. of Permits		Estimated Cost	
	1930	1931	1930	1931
One-story dwellings	11	13	\$ 34,900	\$ 44,300
Two-story dwellings	13	12	111,850	91,325
Apartments	2	2	92,000	
Apartments and Stores	2	1	8,000	
Business buildings	1	1	5,300	7,000
Service station	1	1	1,800	
Private garages	13	10	4,835	2,255
" class C	3	4	1,500	1,250
" class A		1		500
Miscellaneous	7	1	5,400	60
Additions	15	15	9,292	5,180
Additions, class C	1	1	650	700
Alterations and repairs	45	25	32,450	7,812
" class C	1	1	6,000	
Demolitions	41	2	4,300	100
Total	156	85	\$204,352	\$160,472

**SACRAMENTO BUILDING PERMITS FOR
 APRIL, 1931, CLASSIFIED**

	No. of Permits	Est. Cost
One-story 1-family dwellings	21	\$ 99,250
Two-story 1-family dwellings	9	53,000
Business buildings and dwellings	2	24,000
New business buildings	3	55,050
State buildings	2	175,000
Private school auditorium	1	22,600
Private garages	14	3,427
Swimming pool	1	900
Sheds, etc.	1	336
Electric signs	5	2,025
Business repairs	24	19,637
Dwelling repairs	48	22,335
Total	121	\$478,230
Housing	32	\$176,250
New buildings	59	\$436,258
Repairs, and alterations	72	\$ 41,972
Total for first four months, 1930	490	\$1,320,616
Total for first four months, 1931	463	\$1,610,989

Engineering News Section

BRIDGES

EUREKA, Humboldt Co., Calif.—Elmer C. Gardner, Eureka, at \$6,174 and \$30 yd. for additional concrete, awarded contract by county supervisors to construct reinforced concrete bridge over the Mattole river at Petrolin. Complete list of bids follows: Elmer C. Gardner.....\$6,174 Ernest McKee.....6,285 H. Padgett.....6,498 Chas. Winkler.....6,537 Guerin Bros.....6,769 Smith Bros.....6,800 Fred J. Maurer.....7,960 Structure will be 88-ft. in length over all, involving 53 yards class B concrete and 111 yds. class A concrete.

EUREKA, Humboldt Co., Calif.—Ernest M. McKee, Eureka, at \$4,187 awarded contract by county supervisors to construct reinforced concrete bridge across Eaton slough near Ferndale, 90-ft. in length, involving 145 cu. yds. class A concrete. Complete list of bids follows: E. M. McKee.....\$4,187 H. Padgett.....4,394 Chris Winkler.....4,835 Fred J. Maurer.....5,032 Smith Bros.....5,340 H. H. Anderson.....6,530

SANTA ROSA, Sonoma Co., Cal.—Bids will be asked at once by county supervisors to construct timber bridge over McClelland Gulch, near Stewart's Point in the 5th Road District. E. A. Peugh, county surveyor.

SAN JOAQUIN COUNTY, Cal.—Until June 16, 2 P. M., bids will be received by State Highway Commission to construct nine timber bridges and widen two bridges between Stockton and Turner Station.

MODESTO, Stanislaus Co., Calif.—County supervisors abandon proposal to widen bridge over Dry Creek on the Waterford Highway, declaring the cost, estimated at \$18,000, as being too high. Geo. Macomber is county surveyor.

OCEANSIDE, San Diego Co., Cal.—The Oceanside Mutual Water Co. plans to construct a dam and reservoir near Calavera east of Carlsbad, on a site of 320 acres. The proposed dam will be 40 ft. in height and cost \$160,000. Henry Kressman, president of the company, states that the company proposes to finance the project with a \$150,000 5-year loan.

LYON COUNTY, Nev.—Until June 10, 2 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, to construct portion of state highway in Lyon County, between Wilson's and the Mouth of Wilson Canyon, a length of 1.12 miles. The work will consist of grading and construction of a concrete and steel bridge over the West Walker river together with the construction of minor structures. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from engineer on deposit of \$10 of which \$10 is returnable. Certified check 5% required with bid.

PORTLAND, Ore.—F. T. Fowler, city bridge engineer, is completing

plans and bids will be asked shortly by the city commissioners to construct the East Sixteenth Street Viaduct across Sullivan's Gulch. The structure will be 431 ft. long and with a width on the basis of an 80-ft. street with 56-ft. rdwy. and two 8-ft. sidewalks. Main arch span will rise 50-ft. and there will be three of hinge-arch type construction. The cost is estimated at \$130,000 of which \$115,000 is for the viaduct and \$15,000 for the approaches. Lloyd Corp., property owners in the vicinity of the project, will pay one-third the cost, the city, one-third and the O. W. R. and N. R.R., one-third the cost.

LOS ANGELES, Cal.—Contract for the construction of the Sixth Street viaduct was awarded by the Los Angeles Board of Public Works May 15. The award was made on the basis of Alternates 2, 3 and 4, as follows:

All work except structural steel (Alternate No. 4) to J. F. Knapp, 5301 Horton St., Oakland, at \$1,272,525.

Fabrication and delivery of the structural steel (Alternate No. 2) to the Virginia Bridge & Iron Co. 536 S. Hill St., at \$112,330.

Erection of the structural steel (Alternate 3) to Allen Bros., Inc., 1625 S. Alameda St., at \$35,368.

List of the quantities which will enter into the construction of this bridge and approaches follows:

8,000,000 lbs. reinf. steel
47,300 cu. yds. class F concrete;
500 cu. yds. class G concrete.
370 15-ft. concrete piles (precast or cast in place);
1,200 tons more or less structural steel;
3,000 cu. yds. more or less grading, including fill;
2,900 ft. curb;
23,000 sq. ft. concrete gutter and local depressions;
35,500 sq. ft. cement walk;
sanitary sewer; storm drain, 8-inch and 3-inch asp. concrete pavement as per plans; ornamental handrails, etc.;
72 concrete centrifugally cast standards with double bronze lanterns.

This bridge will be of the girder span type with structural steel river span, a total length of 3600 ft. The bridge proper will be 46 ft. and at the approaches 56 ft. wide. East of the river the bridge will be 60 to 63 ft. above the street level. Merrill Butler, 830 City Hall, chief bridge engineer, Los Angeles, is the designer of the bridge.

CAJON, San Bernardino Co., Cal.—Sharp & Fellows Contracting Co. Central Bldg., Los Angeles, awarded contract by Santa Fe Railway for construction of two trestle structures, one at Gish and the other at Alray, on the Santa Fe main line, about 3 and 5 miles, respectively, north of Cajon, bet. San Bernardino and Summit. The contract includes excavation, concrete abutments and backfill. The steel superstructure or bridge span will be built by the railway company.

SAN FRANCISCO.—Barrett & Hilt, 318 Harrison St., at \$544,280 awarded contract by Board of Public Works to construct a bascule bridge over the channel in Third St., to be financed jointly by the City and County of San

Francisco and the State Harbor Commission.

The structure will be a single leaf bascule bridge, 140 ft. span, 80 ft. overall width; 103 ft. between fenders, with 6 ft. sidewalks. Provisions will be made for two street railway tracks and the Belt Line Railroad in addition to vehicular traffic.

SAN LEANDRO, Alameda Co., Cal.—City Engineer W. A. Richmond preparing plans for new bridge to span the creek in Park St. Two designs are being prepared, one for a 40-foot width and the other for an 80-foot width. The county, according to tentative agreements, will share in the cost.

SAN JOAQUIN COUNTY, Cal.—As previously reported, bids will be received June 10 by State Highway Commission to construct nine timber bridges and widen two bridges between Stockton and Turner Station. Project involves:

- (1) 1 only, timber detour bridge complete;
- (2) 1 lot, existing bridges to be removed;
- (3) 1600 cu. yds. structure excavation;
- (4) 345 cu. yds. class B Portland cement concrete;
- (5) 110 cu. yds. class A Portland cement concrete (structures);
- (6) 675 cu. yds. class A Portland cement concrete (pavement);
- (7) 91,000 lbs. reinf. steel;
- (8) 290 m. ft. B. M. redwood timber, dense select all-heart structural grade;
- (9) 225 m. ft. B. M. redwood timber, select all-heart structural grade;
- (10) 1 lot miscellaneous items of work.

See call for bids under official proposal section in this issue.

SANTA BARBARA COUNTY, Calif.—Naves and Hart, Santa Clara, at \$18,099 awarded contract by State Highway Commission to remove deck of the seven 164-ft., 6-in. through steel truss spans of the bridge across the Santa Ynez river about 1 mile south of Eucilton and constructing laminated timber floor and surfacing the bituminous macadam. Complete list of unit bids published in issue of May 18.

TRINITY COUNTY, Calif.—F. H. Nielson, Orland, at \$39,089.96 awarded contract by State Highway Commission to construct bridge across North Fork of the Trinity River near Helene, composed of one 150-ft. through steel truss span and two 47-ft. 2-in. concrete girder spans on concrete piers and abutments. Complete list of unit bids received on this project published in issue of May 14.

ORANGE COUNTY, Cal.—Need Construction Co., 809 Avalon Blvd., Wilmington, at \$59,947 awarded contract by State Highway Commission to construct bridge across Santa Ana River about two miles north of Newport Beach, consisting of three 60-ft. 3-in. steel truss spans to be replaced with concrete girder spans and widening the reinforced concrete girder approach spans consisting of two 31-ft. spans, eight 20-ft. spans and two 21-ft. spans. Complete list of unit and total bids received on this project published in issue of May 18.

WOODLAND, Yolo Co., Cal.—Yolo County Supervisors are considering the purchase of bonds of the Yolo-Sutter Joint Highway District to finance construction of a highway bridge over the Sacramento River at Knights Landing. The bridge, according to tentative estimates of Edward von Geldern of Yuba City, would cost \$186,255.

SACRAMENTO, Cal.—Sacramento County Supervisors have requested Yolo County Supervisors to assist in financing construction of a new bridge across Sutter Slough in Supervisor Marty's District. Structure would be a combination railroad and highway bridge and would cost \$132,000. The Sacramento County Supervisors are willing to share one-half the cost with Yolo County. The Sacramento Northern Railroad has agreed to pay the remaining half.

SAN FRANCISCO.—Mission Concrete Co., 370 Turk St., \$115,433.14 submitted low bid to the Board of Public Works to construct the Sloat Blvd. Viaduct at crossing of Sunset Blvd. Monson Bros., at approximately \$127,848.45, next low bidder. Twenty-one bids were submitted. Complete list of unit and total bids will be published in tomorrow's issue.

TULARE COUNTY, Cal.—J. S. Metzger & Son, 332 W. Jefferson St., Los Angeles, at \$36,290 submitted low bid May 20 to State Highway Commission to construct four and widen two reinforced concrete slab bridges between Goshen and Kingsburg, varying in length from 30 ft. to 105 ft. Complete list of bids follows:

J. S. Metzger & Son, L. A.	\$36,290
L. C. Clark and E. C. Dougherty,	36,442
George J. Ulrich Constr. Co., Modesto	37,294
Frederickson & Watson & Frederickson Bros., Oakland	39,642
Oberg Bros., Los Angeles	46,055
Thermolite Con. Co., San Jose	not totaled

SAN RAFAEL, Marin Co., Cal.—Until June 9, 11 A. M., bids will be received by Rob E. Graham, county clerk, to construct a reinforced concrete bridge at the Stewart Ranch on the Nicasio Valley road in Road District No. 5, involving:

- (a) 186 cu. yds. Class "A" cement concrete in place;
- (b) 21,000 lbs. reinforcing steel in place.

Plans obtainable from County Surveyor Rodney Messner at San Rafael.

DREDGING, HARBOR WORKS & EXCAVATIONS

SOUTHERN CALIFORNIA.—The State Assembly has voted \$800,000 for the next biennium for food control work in Los Angeles and San Bernardino counties.

LONG BEACH, Cal.—Until 10 A. M., May 28, bids will be received by the Port Manager, Room 30, City Hall Annex, Long Beach, for dredging and filling in the Outer Harbor, Long Beach, under Specifications No. H. D. 55, involving approximately 400,000 cu. yds. Certified check or bond, 10%

STOCKTON, San Joaquin Co., Cal.—River Sand & Gravel Co., First National Bank Bldg., Stockton, at \$45 per cu. yd. submitted lowest bid to U. S. Engineer Office, Sacramento, for removing approximately 2500 cubic yards of material from Mormon Channel. Following is a complete list of bids received:

River Sand & Gravel Co., Stockton	\$ 45
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American Dredging Co., S. F. 1.40
Pacific Coast Dredging Co., S. F. 1.70
Bids held under advisement.

MACHINERY AND EQUIPMENT

EUREKA, Humboldt Co., Cal.—Until May 28, 2 P. M., bids will be received by W. H. Pierce, superintendent of equipment, Shop No. 1, State Highway Commission at Eureka for the purchase of one CMC 20, Universal Shovel, 3 1/2-yd. Model B, full crawler. Same may be inspected at the Division of Highway Yards at Eureka. Further information obtainable from above.

PHOENIX, ARIZ.—O. S. Stapley Co., Phoenix, submitted low bid to Arizona Highway Department at \$753.60 for furnishing 8-ft. road king graders.

OILFIELDS, Fresno Co., Cal.—Until May 28, 4 P. M., bids will be received by N. N. Ayers, clerk, Oil King Union Grammar School District to furnish and deliver one school bus chassis and body, as follows:

One 6-cylinder bus chassis, not less than 100-in. wheel base, single rear tires, equipped with brake booster.

One school bus body, seating capacity, 40 elementary school passengers, coach type body with rear door for emergency.

Certified check or bidder's bond for 10% required with bid. Allowance is to be made for 1926 Dodge-Graham bus of 30-passenger capacity. Further information obtainable from clerk.

OKLAND, Cal.—Allis-Chalmers Manufacturing Co., Rialto Bldg., San Francisco, at \$245 awarded contract by East Bay Municipal Utility District to furnish one 30-hp. tractor.

PLACERVILLE, El Dorado Co. Cal.—Until May 29, 6 p. m. bids will be received by Dr. W. A. Rantz, secretary, El Dorado County High School District, to furnish one school bus chassis and body for seating approximately 30 pupils. Chassis and body may be bid separately if desired. Specifications obtainable from secretary.

SAUSALITO, Marin Co., Cal.—Until May 29, 3 p. m., bids will be received by S. G. Ratto, clerk, Sausalito School District, to furnish one new White, Mack, G. M. C., Reo or the equivalent of either, 30-passenger school bus. Delivery to be made on or before August 7th. Specifications and further information obtainable from clerk at 911 Water street, Sausalito.

GALT, Sacramento Co., Cal.—Until June 4, 1:30 P. M., bids will be received by Lucille M. Thompson, clerk, Oakview School District, to furnish school bus; 50-passenger capacity. Specifications and further information obtainable from clerk at R. F. D. No. 2, Box 231, Galt, Calif.

PIPE LINES, WELLS, ETC.

KETTLEMAN HILLS, Cal.—The details of the contract for the construction of Section 2 of the natural gas pipe line between Glendale and Castaic, known as Section 2, have been announced by the Southern Fuel Co. The award of Sections 2, 3, and 4 were previously reported.

Section 2, which is for 31.5 miles of 26-in. pipe line, was awarded to the Macco-Robertson Ltd., 800 E 61st St., Los Angeles. The unit prices as shown in the contract, follow:

For pipeline laid in Sec. 2A, \$1.02 per lin. ft.

For pipeline laid in Sec. 2B, \$1.25 per lin. ft.

For cleaning and painting, class A, 12c; class B, 9.5 c; class C, 7.5c. Special work: Main line valves, \$150 each; 2-in. outlets, \$6; 6-in. outlets, \$12; 12-in. outlets, \$30; extra machine excavation, \$1 per cu. yd.; acetylene process welding on Sec. 2A, \$3.75 per hour.

LAS VEGAS, Nevada.—H. C. Keyes Kingman, Ariz., will file with the city commissioners on May 26 an application for a certificate of public convenience and necessity in connection with a gas plant he proposes building in Las Vegas. The plant will have a daily capacity of 300,000 cu. ft. and will include the installation of 17 miles of pipe and mains, not including laterals. It will cost approximately \$200,000.

SAN FRANCISCO.—Youldall Const. Co., Matson Bldg., at approximately \$147,000 is apparently low bidder to construct the San Joaquin Valley Pipe Line in connection with the Hetch Hetchy Water System. Other bidders and the estimated bid of each follows: Chas. Shea, \$4,150,000; Lindgren and Swinerton, \$4,550,641; McDonald and Kahn, \$4,722,000; American Concrete Co., \$4,900,000; Connelly and Hanrahan, \$4,981,400; G. Atkinson, \$5,300,000; Thos. Havery, bid not estimated. A complete tabulation of the unit and total bids will appear in tomorrow's issue.

SEWERS AND SEWAGE DISPOSAL PLANTS

SIGNAL HILL, Los Angeles Co., Cal.—Currie Eng. Co., Anderson Block San Bernardino, has completed plans for the sewerage treatment plant for the City of Signal Hill. The plant, estimated to cost \$70,000, will be of the trickling type. Plans have been forwarded to the state board of health for a permit.

COALINGA, Fresno Co., Cal.—Until June 1, 5 P. M., bids will be received by E. J. McCoy, city clerk, to furnish 1,600 ft. of 6-in. sewer pipe and 30 6x4-in. wyes for same. Certified check 10% required with bid.

SANTA MARIA, Santa Barbara Co., Cal.—Santa Maria Const. Co., Pernel Barnett, Santa Maria, at \$6,506.07 awarded contract by city council to construct certified sewer extension in North Broadway, the work to be financed in two units, a portion under the 1911 Act and a portion from the City Treasury. Bids follow:

Santa Maria Const. Co.	\$ 6,506
Pernel Barnett, Orange	7,979
H. E. Adams, Santa Barbara	9,935
Stroud Bros. & Seabrook, Bak-ersfield	10,199

Project involves:

1911 Bond Act
5650 ft. 6-in. vit. clay pipe sewer;
466 ft. 8-in. do; 519 ft. 10-in. do; 16 manholes; 4 flush tanks; 2 lampholes.
To Be Financed From City Treasury
1540 ft. 12-in. vit. clay pipe sewer;
194 ft. 10-in. do; 341 ft. 6-in. do; 500 ft. 4-in. cast iron pressure line; 10 manholes; small pumping plant.

CONCORD, Contra Costa Co., Cal.—Until June 1, 8 P. M., bids will be received by W. E. Bailenger, town clerk, to construct sewage disposal plant improvement on sewage pumping system. Estimated cost, \$3,590. Certified check 10% payable to Town required with bid. Specifications on file in office of clerk.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—City Engineer Robt. Klassen preparing plans for sanitary sewer system, including an outfall sewer for the territory bordering upon San Bruno known as the "new industrial area" of South San Francisco. The plans include rebuilding of the existing sanitary outfall sewer near Railroad avenue and Bayshore highway, and a storm water sewer system for the territory along the line of a drain leading toward industrial way. Plans are also to be prepared for a drainage ditch to take care of the storm waters emptying from Colma creek.

BOULDER CITY, Nev.—Hopping Burr, 307 S. Broadway, Pasadena, Calif., awarded contract by U. S. Bureau of Reclamation at Denver, for furnishing 165 sets of manholes, frames and covers for use on the Boulder City sewer project. The price was \$6.55 net per set 1 c. b. Pasadena. The government reserves the right to increase the order by 25 per cent. The bids were opened April 20. The purchasing agent, A. McD. Brooks. Proposal No. 3123-A.

FRESNO, Fresno Co., Calif.—E. W. Redman, Dudley St., Fresno, awarded contract by city council (110-D) to construct 6-inch vitrified clay pipe sewer in portions of Belmont Ave., including 4-inch vitrified clay pipe connections; two concrete manholes with c. l. frames and covers; 4-inch on 6-inch wye branches.

SAN BRUNO, San Mateo Co., Cal.—A. T. Conner, Redwood City, at \$2125 awarded contract by the city council to sewer El Camino Real bet. San Felipe Ave. and Crystal Springs Ave., involving 6-inch and 8-inch vitrified pipe sanitary sewer with 4-inch wye branches; 8 brick manholes. Complete list of bids follows:

A. T. Conner.....	\$2,125
G. C. DeGeyer.....	2,643
W. J. Tobin.....	2,643
Oakland Sewer Const. Co.....	2,655
Bay Concrete Co.....	3,158

LAGUNA BEACH, Orange Co., Cal.—Currie Engineering Co., Anderson Block, San Bernardino, has been retained by Laguna Beach city council to furnish that body with a report relative to a proposed sewer system and to prepare plans and specifications for such a system.

WESTMORELAND, Imperial Co., Cal.—Until 7:30 P. M., May 28, bids will be received by Westmoreland Sanitary District for construction of sewers in accordance with plans prepared by the Currie Engineering Co., Anderson Block, San Bernardino, copies of which may be obtained from the engineer upon deposit of \$5, of which \$2.50 will be returned. The work, which is to be done under the 1911 act involves:

- (1) 20,000 ft. 8-in. sewer;
- (2) 1,000 ft. 10-in. sewer;
- (3) 1,000 ft. 12-in. sewer;
- (4) 51 manholes;
- (5) 7 flush tanks.

SAN JACINTO, Riverside Co., Cal.—Currie Eng. Co., Anderson Block, San Bernardino, has been appointed city engineer to design a small sewer system to be built in the near future.

MISCELLANEOUS CONSTRUCTION

OAKLAND, Cal.—City council has created a fund of \$200,000 to be used toward construction of a new low level tunnel connecting Alameda and Contra Costa counties and extending the Victory highway. The money will go toward the acquisition of right-of-way that will be required

on the Alameda side of the bore for a new highway.

WATER WORKS

LINDSAY, Tulare Co., Cal.—Lindsay Pump and Machinery Co., Lindsay, at \$1,583 awarded contract by city council to furnish and install direct connected pump on well in city park. Complete list of bids follows:

Lindsay.....	\$1,583.00
Pelton Water Wheel Co. S. F.....	1,616.00
Wintworth Pumps, Ltd., Alhambra.....	1,617.75
Byron Jackson Co., Berkeley.....	1,646.00
Sterling Pump Corp., Stockton.....	1,918.35
Stansfield McKnight, Lindsay.....	1,965.00
Layne & Bowler, Los Angeles.....	1,968.00
Pomona Pump Co., Pomona.....	2,033.00
Villemin & Job Machinery Works, Porterville.....	2,048.00
Western Pump Co., Ltd., San Jose.....	2,376.70
Pierless Pump Co., L. A.....	2,787.00

FORT ARMSTRONG, T. H.—Until June 4, 11 a. m. under Circular No. W-6616-31-50, bids will be received by Constructing Quartermaster, Fort Mason, for furnish and testing of green sand zeolite water softener at Fort Armstrong, T. H. (Hawaiian Department). Specifications and further information obtainable from Constructing Quartermaster at Fort Mason.

CALEXICO, Imperial Co., Cal.—An election will be held May 28 to vote on a \$20,000 bond issue for improvements to the water works system, including a 100,000 gallon steel tank and tower, enlargement of mains, and replacements.

VALLEJO, Solano Co., Cal.—Until June 1, 11 A. M., bids will be received by A. E. Edcumb, city clerk, to furnish water gate valves. Certified check 10% payable to city required with bid. Specifications obtainable from T. D. Kilkenny, city engineer.

COALINGA, Fresno Co., Cal.—Until June 1, 5 P. M., bids will be received by E. J. McCroskey, city clerk, to furnish:

- 2,000 ft. of 3-in. standard lapwelded pipe;
- 2,000 ft. of 1-in. galvanized pipe;
- 1,600 ft. of 6-in. sewer pipe and 30 6x4-in. wyes for same.

Certified check 10% required with bid.

CORNING, Tehama Co., Calif.—Until June 4, 5 P. M., bids will be received by E. L. Randall, city clerk, to furnish and install deep well turbine pump, motor, 8-in. standard pipe, with wiring, fittings and equipment in connection with municipal water system. Certified check 10% payable to City Treasurer required with bid. Plans obtainable from city engineer.

NAPA, Napa Co., Cal.—Residents in Browns Valley have petitioned the Napa city council to furnish water to that district for domestic purposes. Two miles of pipe and a pumping plant would be necessary. The cost is estimated at \$10,000. Petition has been referred to E. R. Hennessey, superintendent of the water department with power to act.

MODESTO, Stanislaus Co., Calif.—Boiler Tank & Pipe Co., 75th Ave. and Russet St., Oakland, at \$990 awarded contract by city council to furnish 2 steel sand traps complete. Complete list of bids follows:

Boiler Tank & Pipe Co.....	\$ 990
California Pipe Co.....	1,173
Modesto Iron Works.....	1,373
Bethlehem Shipbuilding Co.....	1,612
Kinneair Machine Works.....	2,194

Western Pipe & Steel Co..... 2,280
Moore Drydock Co..... 3,194

SAN BRUNO, San Mateo Co., Cal.—E. W. Redman, Dudley St., Fresno, at \$3,780.40 awarded contract by the city trustees to construct extension to municipal water system in Third Addn. Project involves: 6,000 feet 2-inch wrought iron pipe; 1,570 ft. 4-in. cast iron pipe; 9 2-in. valves; 7 4-in. valves; 4 hydrants. Next two low bidders were: Fred Turner, \$3,770.95; J. A. Fazio, \$3,990.25.

OAKLAND, Cal.—Until May 27, 8 P. M., bids will be received by John H. Kimball, Secretary, East Bay Municipal Utility District, 512 Sixteenth St., to furnish and erect two 225,000-gallon steel storage tanks. Specifications obtainable from above.

SAN BRUNO, San Mateo Co., Cal.—As previously reported, E. W. Redman, Dudley St., Fresno, at \$3,780.40 awarded contract by city council to construct extension to municipal water system in Third Addn. Project involves: 6,000 feet 2-inch wrought iron pipe; 1,570 ft. 4-in. cast iron pipe; 9 2-in. valves; 7 4-in. valves; 4 hydrants. Complete list of bids follows:

E. W. Redman.....	\$3,780
Fred Turner.....	3,970
J. A. Fazio.....	3,990
Martin Murphy.....	4,042
Alkens and Catral.....	4,117
E. J. Treacy.....	4,343
W. J. Tobin.....	4,563
Bay Concrete Co.....	4,575
P. L. Burr.....	4,621
A. T. Conner.....	4,853
Geo. DeGolyer.....	4,882
John White.....	5,385

GLENDALE, Los Angeles Co., Cal.—Until 10 A. M., May 28, bids will be received by the Glendale city council for furnishing and delivering f. o. b. cars Glendale the following:

Item 1—One horizontal centrifugal pump capable of pumping against a 400-ft. head, approximately 100 gallons of water per minute, and against a 340-ft. head approximately 2100 gallons per minute. Pump to be constructed for direct connection to a four-pole, 50-cycle synchronous electric motor and have suction and discharge connections on opposite sides of pump.

Bidders to furnish specifications, over-all dimensions, guaranteed efficiency curve and delivery date on pump they propose to furnish.

Item 2—One horizontal, 3-phase, 4-pole, 50-cycle, 4000-volt, 40-degree, synchronous motor with direct connected exciter and exciter field rheostat.

Motor to have a capacity of 250 h. p. at 90% leading power factor.

Item 3—One automatic starting and control equipment for Item 2, with operating coil for 230 volts. Equipment to include an A. C. line ammeter, D. C. field ammeter and power factor meter.

Bidder to furnish specifications, over-all dimensions, guaranteed efficiency curves and delivery date of apparatus they propose to furnish. Bids on synchronous motor shall include guaranteed efficiencies of motor at 1/2, 3/4 and full load when operating at both utility and 90% leading power factor, a description of the mechanical design of the amortisseur or starting winding, curves showing starting characteristics and a description of the insulation used in the motor he proposes to furnish.

Starting and control equipment shall comply with the rules and regulations of the Industrial Accident Commission of the State of California.

Certified check, 10%. G. E. Chapman, city clerk.

PLAYGROUNDS & PARKS

SAN FRANCISCO—Until June 1, 3 p. m., under Proposal No. 726, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish sprinkling systems for the (a) Ocean View Playground; (b) Potrero Hill Playground; (c) St. Mary's Playground. Specifications and further information obtainable from above.

SACRAMENTO, Cal.—Until May 29, 10 A. M., bids will be received by H. W. Hall, county clerk, to install sprinkling system for lawn at the county hospital grounds. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Specifications obtainable from County Engineer, Chas. Detering.

STREETS AND HIGHWAYS

OAKLAND, Cal.—Until May 25, 4:30 P. M., bids will be received by G. B. Heggard, secretary, City Port Commission, 421 Oakland Bank Bldg., for oil macadam roadways in Outer Harbor District, involving 32,000 sq. ft. of pavement. Specifications obtainable from secretary.

SHASTA COUNTY, Cal.—Until June 11, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading Section A of Route 77, Mt. Shasta-Mt. Lassen National Forest Highway, Lassen National Forest and grading all of Route 6, North Approach Road connection, Lassen-Volcanic National Pk. in Shasta County, 10,252 mi. in length, involving: 59.6 acres clearing; 90,550 cu. yds. unclass. excavation; 258 cu. yds. do. for structures; 29,400 sta. yds. overhaul; 10,152 miles finish earth-graded road; 79.4 cu. yds. masonry; 1,974 lin. ft. C. M. pipe; 3,900 cu. yds. miles haul backfill material; 14 right of way monuments. Specifications obtainable from engineer on deposit of \$10, returnable, checks for same to be made payable to the Federal Reserve Bank of San Francisco.

SAN JOSE, Santa Clara Co., Cal.—Union Paving Co., Call Bldg., San Francisco, at \$178 sq. ft. awarded contract by county supervisors to improve the Alvis-Milpitas road in Supervisor District No. 3, involving 121,975 sq. ft. 5-in. asph. conc. pavement.

SAN JOSE, Santa Clara Co., Cal.—Until June 1, 11 A. M., bids will be received by Henry A. Pfister, county clerk, for macadamizing Curtner and Brooklyn Avenues in Supervisor District No. 4. Specifications obtainable from County Surveyor Robt. Chandler.

SAN JOSE, Santa Clara Co., Cal.—Until June 1, 10 A. M., bids will be received by Henry A. Pfister, county clerk, for macadamizing Second and Minna Sts. in the town of Campbell. Specifications obtainable from Robt. Chandler, county surveyor.

EUREKA, Humboldt Co., Calif.—County supervisors reject bids to widen Kneeland Hill road. Bids were:

Chas. Lambert.....	Cu. Yd.
Redwood Const. Co.....	37 c
H. C. Anderson.....	37½c
R. L. Hanson.....	38 c
Smith Bros.....	58 c

COLUSA COUNTY, Cal.—Until June 10, 2 P. M., bids will be received by State Highway Commission to grade

and pave with Portland cement concrete, 8.6 miles between Williams and Maxwell.

MERCED COUNTY, Cal.—Until June 10, 2 P. M., bids will be received by State Highway Commission to treat with heavy fuel oil to a width of 3-ft. on each side of the existing pavement, 27.8 miles between the foot of Pacheco Pass and the easterly boundary.

MONO COUNTY, Calif.—Until June 10, 2 P. M., bids will be received by State Highway Commission to treat with heavy fuel oil and cut-hack asphalt as a dust palliative, 2.4 miles between Leevining and 2 miles west 23

OAKLAND, Cal.—Proceedings have been started by the city council to reconstruct pavement on 12th St. 6 mi. at an expenditure of \$30,000. Walter N. Erickstad, city engineer.

MONTEREY COUNTY, Cal.—Pacific Tank Lines, Inc., Los Angeles at \$9,938 awarded contract by State Highway Commission to treat with heavy fuel oil to a width of 8 ft. on each side of the existing pavement, 10.1 miles between Chualar and Salinas.

NEVADA COUNTY, Calif.—Harms Bros., Galt, at \$5,103.50 awarded contract by State Highway Commission for the construction of underdrains at various locations in Nevada County, between Donner Lake and 1 mile west of Truckee.

SAN FRANCISCO—Pacific States Construction Co., Call Bldg., at \$28,167.25 awarded contract by Board of Public Works to pave Section C of Bayshore Blvd. Complete list of unit and total bids received published in issues of May 4 and May 11.

LODI, San Joaquin Co., Cal.—R. H. Crumney, Hotel Cecil, San Francisco, at \$61,397 awarded contract by city council to improve Cherokee Lane, involving grading and concrete paving. Complete list of unit and total bids received on this project published in issue of May 13.

TUOLUMNE, CALAVERAS and ALPINE COUNTIES, Cal.—Basalt Rock Co., Napa, at \$12,525.75 submitted low bid May 14 to R. E. Pierce, district engineer, State Highway Commission, Sacramento, to treat with light and heavy fuel oil, 25 miles between Long Barn and the foot of the Sonora Pass grade in Tuolumne County and for 19.5 miles in Calaveras and Alpine counties, between Big Trees and Lake Alpine: Basalt Rock Co., Napa.....\$12,525.75 D. McDonald, Sacramento.....12,816.75 Bids held under advisement.

GUSTINE, Merced Co., Cal.—Until May 25, 8 P. M., bids will be received by W. L. Chappell, city clerk, to fur-

nish from 400 to 500 yards of 14-in. crushed rock down to pea gravel; delivered and spread with dump trucks on various streets, under supervision of Street Committee of City Board of Trustees. Specifications and further information obtainable from clerk.

LYON COUNTY, Nevada—See "Bridges," this issue. Bids wanted by State Highway, June 10 for grading and constructing steel and concrete bridge over West Walker River.

ORMSEY-LYON COUNTIES, Nev.—Jack Casson, Hayward, Calif., at \$16,814.23 awarded contract by State Highway Commission to furnish, heat and apply asphaltic fuel oil and mixing it with crushed rock or crushed gravel surface on 7.68 miles from Carson City to 2 miles east of Mound House. Dodge Bros., Fallon, Nev., bid \$16,978.25. Project involves: 168,530 gal. asphaltic fuel oil applied to roadway surface; 7.68 mi. mixing asphaltic fuel oil with crushed rock or crushed gravel surface; 7.68 mi. rebuilding and finishing shoulders. Note: The oil shall be delivered at the following railway siding and in the quantities shown: Carson City siding, 163,516 gallons. Average haul on entire contract, 3,357 miles.

WHITE PINE COUNTY, Nevada—Basalt Rock Co., Napa, at \$22,581.58 awarded contract by State Highway Commission to furnish, heat and apply asphaltic fuel oil and mixing it with a crushed rock or crushed gravel surface on 12.16 miles between Robinson Summit and Keystone. Engineer's estimate \$23,930.31. Project involves: 224,788 gal. asphaltic fuel oil applied to roadway surface; 12.16 mi. mixing asphaltic fuel oil with crushed rock or crushed gravel surface; 12.16 mi. rebuilding and finishing shoulders. The oil shall be delivered at the following railway siding and in the quantities shown: East Ely siding, 224,788 gallons. Average haul on entire contract, 12,482 miles.

ELKO COUNTY, Nevada—A. D. Drumm, Jr., Fallon, Nev., at \$48,583.21 submitted low bid to State Highway Commission to construct 23.36 miles of highway between Thousand Springs Creek and Little Salmon River. Bid taken under advisement. Project involves: 204,300 cu. yds. rdwy. excav.; 1200 cu. yds. struct. excav.; 11,000 cu. yds. selected borrow excav. in place; 336,463 yds. sta. overhaul; 23.36 mi. prepare subgrade and shoulders; 57,000 cu. yds. crushed rock or crushed gravel surface in place; lump sum furnishing water equipment; 4053 M gals. applying water; 80 cu. yds. class A concrete; 150 cu. yds. class B concrete; 2156 lin. ft. 18-in., 200 lb. ft. 24-in., 632 lin. ft. 30-in., and 116 lin. ft. 36-in. corr. metal pipe in place; 150 lin. ft. 18-in. and 35 lin. ft. 24-in. vit-

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rified pipe in place; 1180 lin. ft. remove and reconstruct fence; 100 cu. yds. rip rap; marker; 23.36 miles finishing roadway.

SAN RAFAEL, Marin Co., Cal.—County supervisors declare intention No. 3 to improve Red Hill-Ross Landing County Road, (Kentfield-Greenbrae Improvement District), involving grading; hyd. cem. conc. catchbasins; corru. iron pipe storm drains; hyd. cem. conc. curbs, gutters, walks, 1915 Bond Act and Co. Imp. Act 1921. Robt. E. Graham, county clerk. Rodney Messner, county surveyor.

MONO COUNTY, Cal.—Kennedy-Bayles Construction Co., Biggs, at \$5,290 submitted low bid to State Highway Commission (District Engineer) for grading 0.7-miles between 1.9-miles south of Colvilleville and 1.2-miles south of Colvilleville.

HANFORD, Kings Co., Cal.—County Surveyor Roy May is completing specifications to resurface and widen various county roads and bids will be asked within the next few days. Work contemplated includes roads 6-miles south of the Hanford city limits on the Corcoran highway, and to six miles from the north end of Douty street on the Laton highway. Both roads will be widened from their present 16-foot width to 18 feet, in addition to the resurfacing. Plans for the Laton road work call for easement curves at the Hall, Andree and Aydeolt corners, where exceptionally sharp turns are now encountered. The county has \$110,000 available for such construction.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, completes specifications to improve south half of Thrift st. between Faxon and Geary ave. Estimated cost \$2,700. Project involves:
245 lin. ft. armored concrete curb;
100 lin. ft. 6-in. V.C.P. side sewers;
1,800 sq. ft. asph. conc. pavement, 2-in. asph. conc. surface on 6-in. Class "F" conc. base.
2,212 sq. ft. 6-in. Class "E" conc. pavement.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, completes specifications to improve Clarendon ave. from Stanyan st. westerly; estimated cost \$600. Project involves:
62 lin. ft. armored concrete curb;
40 lin. ft. 6-in. V.C.P. side sewers;
1,250 sq. ft. asph. conc. pavement, 2-in. asph. conc. surface on 6-in. class "F" base.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, completes specifications to improve San Luis ave. Estimated cost \$1,600. Project involves:
160 lin. ft. armored concrete curb;
45 lin. ft. 6-in. V.C.P. side sewer;
2,405 sq. ft. asph. conc. pavement, 2-in. asph. conc. surface on 6-in. Class "F" conc. base.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd floor, City Hall, completes specifications to improve Griffith st. bet Palou and Revere ave., including crossing at Quesada st. Estimated cost, \$3,180. Project involves 6,300 cu. yds. embankment.

MONTEREY COUNTY, Cal.—Until June 2, 2 P. M., bids will be received by L. H. Gilson, district engineer, State Highway Commission, Bank of Italy Bldg., San Luis Obispo, to surface with oil treated gravel, 3.2-miles

between Priest Valley School and the Easterly boundary.

MONTEREY COUNTY, Cal.—Granite Construction Co., Watsonville, at \$7,894.60 awarded contract by State Highway Commission for 14-miles of bituminous surface treatment consisting of asphaltic road oil and screenings between San Lucas and San Lorenzo Creek.

ELKO COUNTY, Nevada—Utah Construction Co., Ogden, Utah, at \$137,171.21 submitted low bid to State Highway Commission to furnish, heat and apply asphaltic fuel oil and mixing it with crushed rock or crushed gravel surface on 31.44 miles between Elko and Death. Bid taken under advisement. Project involves: 582,681 gals. asph. fuel oil applied to roadway surface; 31.44 mi. mixing asphalt fuel oil with crushed rock or crushed gravel surface; 31.44 mi. rebuilding and finishing shoulders.

SAN JOSE, Santa Clara Co., Cal.—Bids received by county supervisors May 18 to improve the Alviso-Milpitas road in Supervisor's District No. 5, involving asphalt concrete pavement, were destroyed in the fire which wiped out the county courthouse yesterday afternoon. New bids will be asked at a later date. Robt. Chandler, county surveyor.

SAN RAFAEL, Marin Co., Calif.—Until June 9, 11 A. M., bids will be received by Robt. E. Graham, county clerk, for grading 4.3 miles of the Millerton-Marshall Bond Road No. 2, from 1 mile north of Millerton to Marshall, involving:
(1) \$7,000 cu. yds. excavation without classification;
(2) 6500 sta. yds. overhaul;
(3) 26 lin. ft. 10-in. corru. metal pipe
(4) 134 lin. ft. 12-in. do;
(5) 20 lin. ft. 18-in. do;
(6) 42 lin. ft. 24-in. do;
(7) 104 lin. ft. 30-in. do;
(8) 176 lin. ft. 36-in. do;
(9) 20 lin. ft. 12-in. corru. metal pipe move and reset;
(10) 5000 cu. ft. gravel or broken stone in place;
(11) 22 cu. yds. class A Portland cement concrete (headwalks);
(12) 1150 lbs. reinf. steel (headwalks);
(13) 300 cu. yds. class A Portland cement (bridges);
(14) 32,000 lbs. reinf. steel (bridges).

The county will furnish corrugated metal pipe.
Specifications obtainable from County Surveyor Rodney Messner.

MODOC COUNTY, Cal.—No bids received May 15 by H. S. Comly, district engineer, State Highway Commission, Redding, to treat with heavy fuel oil as a dust palliative, 3.5 miles between 9.5 miles west of Alturas and Alturas. The work will be done by state forces.

ORMSBY-LYON COUNTIES, Nev.—Jack Casson, Hayward, Calif., at \$16,814.73 awarded contract by State Highway Commission to furnish, heat and apply asphaltic fuel oil and mixing it with crushed rock or crushed gravel surface on 7.68 miles from Carson City to 2 miles east of Mound House. Only other bidder at \$16,978.25. Engineer's estimate, \$16,708.18.

Unit bids follow:

(a) Jack Casson	.....	\$16,814.73
(b) Dodge Bros.	.....	16,978.25
(c) Engineer's estimate	.....	16,708.18

(1) 163,516 gal. asph. fuel oil applied to roadway surface;
(2) 7.68 miles mixing asph. fuel oil with crushed rock or crushed gravel surface;
(3) 7.68 miles rebuild and finish shoulders.

	(A)	(B)	(C)
(1)	.....\$ 977	.....\$ 978	.....\$ 974
(2)	.....500.00	.....500.00	.....550.00
(3)	.....50.00	.....50.00	.....50.00

RICHMOND, Contra Costa Co., Cal.—See unit bid listing on Page Five of this issue. Contract awarded to improve Tenth Street.

SANTA BARBARA COUNTY, Cal.—J. F. Knapp, Financial Center Bldg., Oakland, at \$11,782 submitted low bid May 20 to State Highway Commission to be treated with asphaltic road oil and screenings, 15.5 miles between Buckhorn Creek and the second crossing of the Cuyama river. Complete list of bids follow:
J. F. Knapp, Oakland \$11,782
Santa Maria Constr. Co., Santa Maria 12,375
Lange Transportation Co., Los Angeles 16,160
Bids held under advisement.

SAN JOAQUIN COUNTY, Calif.—C. W. Wood, Country Club Blvd., Stockton, at \$44,660 submitted low bid May 20 to State Highway Commission to grade and surface with bituminous treated crushed gravel or stone, 3.5 miles between French Camp and Stockton. Following is a complete list of bids received:
C. W. Wood, Stockton \$44,660
Valley Paving & Con. Co., Fresno 44,950
Willard & Binotti, Stockton 46,850
Force Constr. Co., Piedmont 50,512
Clark & Henry, S. Fakers 51,813
F. W. Nighbert, Bakersfield 55,290
Bids held under advisement.

YOLO AND COLUSA COUNTIES, Cal.—Fred W. Nighbert, Bakersfield, at \$24,140 submitted low bid May 20 to State Highway Commission to improve 8.7 miles of highway between Dunnigan and 1 mile south of Arbuckle, involving placing of 8.7 miles of bituminous treated rock borders. Only other bid submitted by A. Teichert & Son, Sacramento, at \$24,495. Bids held under advisement.

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SACRAMENTO COUNTY, Cal.—Basich Bros., Torrance, at \$193,365 submitted low bid May 20 to State Highway Commission to grade and pave with Portland cement concrete, 7.2 miles between Brighton and Mills. Complete list of bids follows:

Basich Bros., Torrance.....	\$193,365
N. M. Ball, Forterville.....	200,534
Hanrahan Co., San Francisco.....	202,060
Frederickson & Watson Constr. Co., Oakland.....	205,647
Clark & Henger, San Francisco.....	222,076
M. J. Bevanda, Stockton.....	223,187
C. W. Wood, Stockton.....	229,396
A. Teichert & Son, Sacramento.....	241,561

Bids held under advisement.

SAN RAFAEL, Marin Co., Calif.—Until June 9, 11 A. M., bids will be received by Rob E. Graham, county clerk, for surfacing and treating with emulsified asphalt and screenings, 4.3 miles of the road from 1 mile south of Nicasio Road, thence north along the Nicasio Road to the Red Hill Rd., involving:

400,000 sq. ft. emulsified asphalt and screenings in place.
Specifications obtainable from County Surveyor Rodney Messner.

SAN MATEO COUNTY, Cal.—Hanrahan Company, Standard Oil Bldg., San Francisco, at \$1,937,131 submitted low bid May 18 to John H. Skeggs, district engineer, State Highway Commission, San Francisco, for cement concrete pavement at the Colma Underpass of the Southern Pacific Railway. Complete list of bids follows:

Hanrahan Co., San Francisco.....	\$1,937,131
Eaton & Smith, San Francisco.....	2,261
A. G. Raichs Co., San Francisco.....	2,277
N. M. Ball, Berkeley.....	2,301
Peter McHugh, San Francisco.....	2,587

TUOLUMNE, CALAVERAS AND ALPINE COUNTIES, Cal.—Basalt Rock Co., Yuba, at \$12,525.75 awarded contract by State Highway Commission to treat with light and heavy fuel oil, 25 miles between Long Beach and the foot of the Sonora Pass grade in Tuolumne County and for 19.5 miles in Calaveras and Alpine counties, between Big Trees and Lake Alpine.

OAKLAND, Calif.—City council declares intention to improve portions of Hampton Road, Estates Drive and Wood Drive, involving:

- (1) 10,482 cu. yds. excavation;
- (2) 71 lin. ft. concrete curb;
- (3) 68,710 sq. ft. concrete pavement;
- (4) 4 storm water inlets (type A);
- (5) 117 lin. ft. 12-in. conc. pipe conduit;
- (6) 74 lin. ft. 15-in. concrete pipe conduit;
- (7) 10 lin. ft. 8x24-in. corrugated iron and concrete culvert;
- (8) 1 concrete handhole with cast iron cover;
- (9) 29 cu. yds. of concrete retaining wall.

Street Improvement Act of 1913, Hearing June 18. Frank C. Merritt, city clerk. Walter N. Frickstad, city engineer.

HANFORD, Kings Co., Calif.—Until June 5, 2 P. M., bids will be received by E. F. Pickering, county clerk, to reconstruct approximately 12 miles of the county highway system, involving:

- (a) 740 cu. yds. earthwork, on curves;
- (b) 63,535 lin. ft. grading for shoulder work and headerboards;
- (c) 480 tons of asphalt concrete base, on curves;
- (d) 7,375 tons of asphalt concrete base material in shoulders and leveling course;
- (e) 13,985 tons asphalt concrete surf.

County has \$10,000 available for this work. Certified check or bidder's bond 10% payable to the Chairman of the Board of Supervisors required with bid. Plans obtainable from Coun-

ty Surveyor Roy May on deposit of \$10 returnable.

RIVERSIDE AND ORANGE COUNTIES, Cal.—Joint Highway District No. 15 will call for bids about June 3 for the construction of Section F of the Ortega Highway, 9.04 miles, beginning at Morrill Canyon in Riverside County and terminating at a point County and on the south side of Lake Elsinore. If the work is ordered at that time the board of directors will set July 8, at 2 P. M., as the time for receiving bids.

But alternate bid may be submitted on four divisions of the 9.04 miles. The contract may be let for any one or all of these divisions. Davidson & Fulmer, engineers for the district, have announced the approximate quantities, viz.:

- (1) 478 stations clearing and grubbing;
- (2) 350,000 cu. yds. excav. roadway unclass;
- (3) 4000 cu. yds. excav. structures unclass;
- (4) 1000 cu. yds. excav. for channel changes unclass;
- (5) 300,000 cu. yds. overhaul (500-ft. free haul);
- (6) 5560 ft. 18-in. corr. metal pipe in place;
- (7) 1092 ft. 24-in. corr. metal pipe in place;
- (8) 290 ft. 30-in. corr. metal pipe in place;
- (9) 66 ft. 42-in. corr. metal pipe in place;
- (10) 25 reinf. conc. drop inlets complete;
- (11) 648 cu. yds. cement rubble in bridges at Sta. 396+00 and 418+00;
- (12) 96 cu. yds. reinf. conc. in culvert;
- (13) 500 cu. yds. dry rubble retaining

The proposed highway will be graded to a width of 22 ft. and drained at this time, the surfacing to be laid at some later date. If the work is ordered June 3 plans may be obtained immediately after that date.

MONTEREY COUNTY, Cal.—Granite Construction Co., Watsonville, at \$7,894.60 awarded contract by State Highway Commission for 14 miles of bituminous surface treatment consisting of asphaltic road oil and screenings between San Lucas and San Lorenzo Creek.

SAN LUIS OBISPO COUNTY, Cal.—W. A. Dontanville, Salinas, at \$1,609.65 awarded contract by the State Highway Commission for treating with fuel oil as dust palliative, 6.2 miles between San Simeon and Piedras Blancas Lighthouse.

SANTA CRUZ COUNTY, Cal.—C. W. Wood, Stockton, at \$42,100 awarded contract by State Highway Commission to grade and surface with crusher run base and surface with bituminous macadam one mile between one mile north of Santa Cruz and Santa Cruz. Complete list of unit and total bids received published in issue of May 18.

SALINAS, Monterey Co., Calif.—W. A. Dontanville, McDougall Bldg., Salinas, awarded contract by city council (55) to improve portions of South Main St. bet. Geill St. and Romie Lane, involving grading; hyd. cem. concrete curbs, sidewalks; 6-in. hyd. cement concrete paving. Following is a complete list of bids received:

- | |
|---|
| W. A. Dontanville, (a) \$0.05; (b) \$1.95; (c) \$3.8; (d) \$1.55. |
| Union Paving Co., (a) \$0.02; (b) \$1.9; (c) \$3.8; (d) \$1.7. |
| (a) \$4,241 sq. ft. grading; |
| (b) 32,656 sq. ft. 6-in. hyd. cem. conc. |

- | |
|--|
| pavement; |
| (c) 1,960 lin. ft. hyd. conc. curbs; |
| (d) 11,122 sq. ft. 3 1/2-in. conc. sidewalk-walks. |

BURLINGAME, San Mateo Co., Cal.—Union Paving Co., Call Bldg., San Francisco, at \$9,482.40 awarded contract by city council to improve Nevada Road for its full length, involving:

- (1) 35 stumps, 1 ft. and under, remove;
- (2) 33 stumps, over 1 ft., remove;
- (3) 20 trees, 1 ft. and under, remove;
- (4) 14 trees, over 1 ft., remove;
- (5) 3 cutting concrete pedestals below subgrade;
- (6) 2 remove brick fillers;
- (7) 216 ft. 4-in. vit. pipe sewer;
- (8) 1 "Y" branch;
- (9) 3 install connections and raise manholes;
- (10) 3700 cu. yds. excavation;
- (11) 35,560 sq. ft. 6-inch waterbound macadam paving;
- (12) 35,500 sq. ft. 2-in. asph. surface;
- (13) 60 ft. 10-in. concrete drain;
- (14) 2 head walls;
- (15) 1 catchbasin;
- (16) 3584 sq. ft. sidewalks (macadam)
- (17) 11,200 sq. ft. 3-in. rock top;
- (18) 5500 sq. ft. 6-in. curb shoulders;
- (19) 65 ft. hyd. conc. curb returns;
- (20) 8 cu. yds. concrete encasement.

Following is a complete list of bids: Union Paving Co., S. F. \$ 9,482
Hanrahan Co., San Francisco..... 9,926
A. G. Raichs, San Francisco..... 11,354
Pacific Pavements Co., Ltd. San Francisco..... 12,736
Fay Imp. Co., San Francisco..... 13,036

CLARK COUNTY, Nevada—Until June 3, 2 P. M., bids will be received by S. C. Dupkee, state highway engineer, Carson City, to construct 1.32 miles of highway in Clark County, between Fifth and Fremont Sts., and the southeast city limits in Las Vegas, involving grading, construct structures and placing surfacing material. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from engineer on deposit of \$15, of which \$10 is returnable. Certified check 5% required with bid.

COLUSA COUNTY, Cal.—As previously reported, bids will be received June 10 by State Highway Commission to grade and pave with Portland cement concrete, 8.6 miles between Williams and Maxwell. Project involves:

- (1) 4800 cu. yds. rdwy. excav. without class;
- (2) 300 cu. yds. structure excavation;
- (3) 56,600 cu. yds. pit run gravel (sieve size and shoulders);
- (4) 101,000 sq. yds. subgrade preparation;
- (5) 21,250 cu. yds. class A Portland cement concrete (pavement);
- (6) 2 cu. yds. class A Portland cement concrete (structures);
- (7) 490,000 lbs. bar reinf. steel (pavement and structures);
- (8) 466 lin. ft. 12-in. corr. metal pipe;
- (9) 174 lin. ft. corr. metal pipe and conc. pipe (clean and relay);
- (10) 211 lin. ft. corr. metal pipe and conc. pipe (remove and salvage);
- (11) 140 lin. ft. existing guard rail (remove and salvage);
- (12) 500 cu. yds. conc. removed from existing pavement and structures;
- (13) 100 tons broken stone (bitum. macadam surface);
- (14) 2 tons asphaltic road oil;
- (15) 0.1 mile moving and resetting property stakes;
- (16) 155 lbs. fuel oil (detours);
- (17) 454 stations finishing roadway;

The State will furnish corrugated metal pipe.
See call for bids under official proposal section in this issue.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
724	Barnlich	Westlund	3500
725	Gray	Owner	5000
726	Meyer	Owner	4000
727	Schnapp	Owner	3500
728	James	Owner	3000
729	Adams	Michael	7000
730	Halsen	Owner	8000
731	Whitney	Marian	31600
732	Meyer	Owner	4000
733	National	Owner	1900
734	Samuelson	Owner	3500
735	Doelger	Owner	12000
736	Carr	Owner	1200
737	Johnson	Owner	4000
738	Graham	Moore	1200
739	Scatena	Pera	3500
740	Battensby	Owner	10500
741	Leask	Owner	4000
742	Martola	Franceschl	8000
743	Vette	Owner	1000
744	Lang	Swansen	7000
745	Humphrey	Feriera	4000
746	Di Massi	Schaadt	4650
747	Conniff	Owner	1500
748	Standard	Owner	2500
749	Standard	Owner	3500
750	Campbell	Owner	2500
751	Veteran	McSheehy	1500
752	Staff	Owner	3500
753	Standard	Owner	7000
754	Battensby	Owner	7000
755	Standard	Owner	4500
756	Standard	Owner	3500
757	Crisci	Folliotti	9000
758	Imperial	Barrett	10000
759	Arnold	Owner	4000
760	Greene	Thrall	3500
761	Hanson	Owner	3850
762	Hanssen	Owner	6000
763	Heyman	Owner	10500
764	Silvestri	D'Amico	3000
765	Loftus	Owner	8000
766	Lang	Lang	9000
767	Killan	Owner	1200
768	A B C	Mullen	1800
769	Carson	Owner	1800
770	Eastman	Barrett	15000
771	Kavanaugh	Owner	3500
772	Rivara	Andersen	3000
773	Boyer	Owner	1750
774	Ohlsen	Owner	4000
775	Besio	Owner	8000
776	Duerner	Acme	4000
777	Lang	Owner	5000

DWELLING
(724) E HOLYOKE 125 N Bacon; 1-story and basement frame dwelling.
Owner—G. Barnlich, 34 Rincon. Plans by Builder. Contractor—C. H. Westlund, 123 Howard Street. \$3500

DWELLING
(725) N NORTH POINT 205 E Webster; 1-story and basement frame dwelling.
Owner—H. E. Gray, 2150 Baker St. Plans by Owner. \$5000

DWELLING
(726) S EVELYN 22 E Chares; one-story and basement frame dwelling.
Owner—Meyer Bros., 727 Portola Dr. Plans by Owner. \$4000

DWELLING
(727) W 21st AVE. 275 N Taraval; one-story and basement frame dwelling.
Owner—J. Schnapp, 2347 31st Ave. Plans by Owner. \$2500

DWELLING
(728) E FOLSOM 65 N 22nd Street; one-story and basement frame dwelling.
Owner—H. James, 2585 Folsom St. Plans by E. J. O'Connor, 846 Woolsey. \$3000

DWELLING
(729) SE MONTEREY and Santa Ana; two-story and basement frame dwelling.
Owner—R. Adams, 793 19th Ave. Architect—A. H. Jacobs, 110 Sutter St. Contractor—Michael & Bommerer, 762 DeHarro St. \$7000

DWELLINGS
(730) E 14th AVE. 165 N Taraval St.; two 1-story and basement frame dwellings.
Owner and Builder—A. Halsen, 2427 25th Avenue. Architect—Not Given. each \$4000

DWELLINGS
(731) W 23rd AVE. 25 S Kirkham; eight 1-story and basement frame dwellings.
Owner—Whitney Investment Co. Plans by Marian Realty Co. Contractor—Marian Realty Co., 110 Sutter Street. each \$3550

DWELLING
(732) W CHARES 25 S Evelyn; one-story and basement frame dwelling.
Owner—Meyer Bros., 727 Portola Dr. Plans by Owner. \$4000

ALTERATIONS
(733) 2610 MISSION St.; alterations to store.
Owner—National Dollar Stores, care architect. Architect—B. J. Joseph, 74 New Montgomery St. \$1900

DWELLING
(734) S TEDDY 100 W Alpha; one-story and basement frame dwelling.
Owner—A. M. Samuelson, 901 Geneva. Architect—W. R. Weisheimer, 924 Pragus. \$3500

DWELLINGS
(735) E 32nd AVE. 125 N Lawton; 8 dwellings.
Owner and Builder—H. Doelger, 200 Judah Street. Plans by Owner. each \$4000

SERVICE STATION
(736) SE MISSION and Acton Sts.; one-story gas and oil service station.

Owner—J. O. Carr, 747 Evergreen Ave. Architect—Not Given. \$1200

DWELLING
(737) W 22nd AVE. 275 S Moraga; 1-story and basement frame dwelling.
Owner—C. G. Johnson, 2619 Bryant St. Architect—Not Given. \$4000

ALTERATIONS
(738) 210 VALLEY; alterations on house front.
Owner—Edmond Graham, 1644 Church Street. Contractor—Geo. T. Moore, 145 Noe Street. \$1200

ALTERATIONS
(739) 2153 GREENWICH St.; remodel flats.
Owner—F. Scatena, 2151 Greenwich. Architect—Not Given. Contractor—V. Pera, 2706 Greenwich. \$3500

DWELLINGS
(740) N FARRAGUT 28 E Moneta; 3 1-story and basement frame dwellings.
Owner—G. M. Battensby. Architect—Not Given. each \$3500
DWELLING
(741) E 26th AVE. 175 S Kirkham; one-story and basement frame dwelling.
Owner—G. Leask, 197 Parker Ave. Architect—Not Given. \$4000

FLATS
(742) N BEACH 137 E Broderick St.; two-story and basement frame (2) flats.
Owner—H. M. Martola, 64 Mallorca Way. Architect—R. R. Irvine, Call Bldg. Contractor—L. Franceschi, 1990 Beach Street. \$8000

REPAIRS
(743) NW WALLER St. and Central Ave.; repair fire damage.
Owner—Mr. Vette, 163 Sutter St. Architect—Not Given. \$1000

DWELLING
(744) E ROCKWOOD COURT 250 S Rockwood Avenue; two-story and basement frame dwelling.
Owner—Lang Realty Co., 39 Sutter St. Plans by F. P. Nelson, 810 Ulloa St. Contractor—O. Swanson, 3539 Market Street. \$7000

DWELLING
(745) 14th AVENUE 190 S Taraval; one-story and basement frame dwelling.
Owner—M. Humphrey, 1986 18th Ave. Plans by Contractor. Contractor—J. A. Pereira, 1601 20th Avenue. \$4000

DWELLING
(746) S 21st St. 152 W Church St.; one-story and basement frame dwelling.
Owner—Mr. Di Massi. Architect—Not Given. Contractor—R. M. Schaadt, 31 Howth Street. \$4650

ALTERATIONS
(747) 1429 LEAVENWORTH St.; alterations for apartments.
Owner—M. F. Conniff, 1429 Leavenworth St. Plans by R. H. Branch, 2901 Van Ness Avenue. \$15,000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

DWELLING
(748) E 23th AVE. 50 S Rivera; one-story and basement frame dwelling.
Owner—Standard Bldg. Co., 218 Castenada St.
Plans by Owners. \$3500

DWELLING
(749) S RIVERA 32 W 29th Ave.; 1-story and basement frame dwelling.
Owner—Standard Bldg. Co., 218 Castenada St.
Plans by Owners. \$3500

DWELLING
(750) E BURNETT 276 S Copper Alley; one-story and basement frame dwelling.
Owner—L. E. Campbell, 652 Corbett Avenue.
Plans by Owner. \$2500

ALTERATIONS
(751) 368 FELL ST.; alterations to store.
Owner—Veteran Fireman's Assn., 368 Fell Street.
Plans by Mr. McSheehy.
Contractor—J. McSheehy, 137 Clifford Terrace. \$1500

DWELLING
(752) E 17th AVE. 150 N Wawona; 1-story and basement frame dwelling.
Owner—E. Staff, 2266 33rd Ave.
Architect—Not Given. \$3500

DWELLINGS
(753) E 21st AVE. 100 S Pacheco; two 1-story and basement frame dwellings.
Owner—Standard Bldg. Co., 218 Castenada St.
Plans by Owner. each \$3500

DWELLINGS
(754) N FARRAGUT 28 E Moneta; three 1-story and basement frame dwellings.
Owner—G. M. Battersby, 478 Munich.
Plans by Owner. each \$3500

DWELLING
(755) W FUNSTON AVE. 135 N Ulloa; one-story and basement frame dwelling.
Owner—Standard Bldg. Co., 218 Castenada St.
Plans by Owner. \$4500

DWELLING
(756) E 28th AVE. 275 S Rivera; one-story and basement frame dwelling.
Owner—Standard Bldg. Co., 218 Castenada St.
Plans by Owners. \$3500

FLATS
(757) S CHENERY ST. 138 N Roanoke; 2-story and basement frame (2) flats.
Owner—J. Crisci, 943 Columbus Ave.
Plans by Mr. Foliotti.
Contractor—R. Foliotti, 949 Filbert St. \$9000

ALTERATIONS
(758) SW STOCKTON and O'Farrell; alterations to store and front.
Owner—Imperial Realty Co., Stockton and O'Farrell Sts.
Architect—G. A. Lansburgh, 140 Montgomery St.
Contractor—Barrett & Hilp, 918 Harrison St. \$10,000

DWELLING
(759) N RIVERA 85 W 14th Avenue; one-story and basement frame dwelling.
Owner—J. A. Arnott, 633 Taraval St.
Plans by Owner. \$4000

DWELLING
(760) W 24th AVE. 325 S Vicente; one-story and basement frame dwelling.

Owner—R. Greene, 564 Market St.
Plans by Mr. Thrall.
Contractor—W. A. Thrall, 599 Noe St. \$3500

STORE
(761) S GENEVA 245 E Mission; 1-story and basement frame store.
Owner—K. Hansen, 940 Geneva Ave.
Plans by Owner. \$3850

FLATS
(762) S NORTH POINT ST. 100 W Buchanan; one-story and basement frame (2) flats.
Owner—E. A. Hanssen, 811 Hearst Bldg.
Architect—Not Given. \$6000

DWELLINGS
(763) E 30th AVE 350 N Fulton St.; three 1-story and basement frame dwellings.
Owner—Heyman Bros., 742 Market St.
Plans by Owners. each \$3500

DWELLING
(764) N GROVE ST. bet. Jones and Leavenworth; one-story and basement frame dwelling.
Owner—J. Silvestri, 64 Grove St.
Architect—Not Given.
Contractor—T. D'Amico, 2345 Polk St. \$3000

DWELLINGS
(765) E THIRD ST. 35 S Underwood Ave.; two 1-story and basement frame dwellings.
Owner—T. F. Loftus, 1295 31st Ave.
Architect—Not Given. each \$4000

DWELLING
(766) W CASITAS opp. Landsdale; one- and two-story and basement frame dwelling.
Owner and Builder—Lang Realty Co., 39 Sutter St.
Plans by F. F. Nelson, 810 Ulloa St. \$9000

DWELLING
(767) 417 BURNETT ST.; one-story and basement frame dwelling.
Owner—L. J. Killan, 1201 Bryant St.
Architect—Not Given. \$1200

ALTERATIONS
(768) 310 MONTGOMERY ST.; alterations to store front; install lunch room fixtures.
Owner—A. B. C. Cigar Co., 207 9th St.
Plans by Contractor.
Contractor—Mullen Mfg. Company, 60 Rausch St. \$1800

ALTERATIONS
(769) SW PAGE and Webster Sts.; alterations for apts.
Owner—O. Carson, 329 Haight St.
Architect—Not Given. \$1800

ALTERATIONS
(770) POST ST. near Grant Avenue; alterations to building front to second floor line and minor interior alterations.
Owner—Eastman Kodak Co., 545 Market Street.
Architect—Bliss & Fairweather, 1001 Balboa Bldg.
Contractor—Barrett & Hilp, 918 Harrison St. \$15,000

DWELLING
(771) E 23th AVE. 125 S Rivera; one-story and basement frame dwelling.
Owner—D. S. Kavanaugh, 433 California Street.
Plans by Owner. \$3500

DWELLING
(772) S BROAD 485 W Capitol; one-story and basement frame dwelling.
Owner—A. Rivara, 259 Broad St.
Architect—Not Given.
Contractor—A. Andrcsen, 230 Hazelwood Ave. \$3000

REPAIRS
(773) 1385 GOLDEN GATE AVENUE; repair fire damage.
Owner—L. Beyer, 1616 Golden Gate Avenue.
Architect—Not Given. \$1750

DWELLING
(774) SW SALA TERRACE and Elington; one-story and basement frame dwelling.
Owner—A. H. Ohlsen, 481 Eddy St.
Plans by Owner. \$4000

DWELLINGS
(775) NE ROUSSEAU and Cayuga; two 1-story and basement frame dwellings.
Owner—L. Besio, 534 Edinburgh.
Plans by Owner. each \$4000

DWELLING
(776) S MORAGA 82 W 22nd Avenue; one-story and basement frame dwelling.
Owner—P. B. Duerner, 301 Evergreen Avenue.
Plans by F. Nelson, 3627 24th Ave.
Contractor—Acme Const. Co., 301 Evergreen Ave. \$4000

DWELLINGS
(777) E CHESTER 100 S Payson; two one-story and basement frame dwellings.
Owner—Lang Realty Co., 810 Ulloa St.
Plans by Owner. each \$2500

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
92	Dickman	Wright	—
93	California	Johnson	21156
94	S F Packing	Cahill	27190
95	Cutler	Doelger	4323
DWELLING			
(92)	NW ARLETA AVE. and Alpha;		
	all work on 1-story frame dwelling.		
	Owner—Edmund J. Dickman.		
	Architect—D. S. Adams, 126 Chester.		
	Contractor—John Wright, 381 Bush St.		
	Filed, May 14, '31. Dated May 12, '31.		
	When roofed	\$913.75	
	When plastered	913.75	
	When completed	913.75	
	Usual 35 days	913.75	
	TOTAL COST not given		
	Limit, 90 days after May 14. Plans		
	and Spec. filed.		
ADDITION			
(93)	N EDDY ST. 90 E Scott St. E		
	30 N 75 E 80 N 25 W 90 S 100; all		
	work on three-story addition, in-		
	volving alterations and additions		
	to present building.		
	Owner—The California State Assn. of		
	Chiroprodists, Inc.		
	Architect—A. L. Coffey and M. Rist,		
	Phelan Bldg.		
	Contractor—J. H. Johnson, H e a r s t		
	Bldg.		
	Filed May 15, '31. Dated May 12, '31.		
	Frame up	\$5283	
	Brown coated	5289	
	Completed and accepted	5289	
	Usual 35 days	6289	
	TOTAL COST, \$21,156		
	Bond, \$10,578. Sureties, American		
	Bonding Co. Forfeit \$50. Plans and		
	Spec. filed.		
WAREHOUSE			
(94)	SE BANCROFT and Phelps E		
	Phelps St. 100 N Carroll Ave. N		
	56-269 E 56-827 E 92 S 90 deg 203-		
	135 W 92-963 N 107-046 W 89-708;		
	all work on warehouse.		
	Owner—S. F. Packing Corp., Williams		
	and Phelps Sts.		
	Architect—Not Given.		
	Contractor—Cahill Bros., 206 Sansome.		
	Filed May 15, '31. Dated May 14, '31.		
	Foundations in	\$5000	
	Concrete walls up	7000	

Roof sheathing completed..... 5100
On completion a note for \$5000 bearing 6% interest per annum payable on or before Sept. 1, 1931.
TOTAL COST, \$22,100
Forfeit, \$35 per day. Limit, 35 days.

BUILDING

(65) W THIRTIETH AVE 300 N
Fulton N 25xW 120. All work for one-story and basement frame building.
Owner—Mitchell E. Cutler, 421 14th Ave., San Francisco.
Architect—Not Given.
Contractor—Henry Doelger, 300 Judah St., San Francisco.
Filed May 20, '31. Dated May 8, '31.
Roof on \$ 937.50
Plaster on 937.50
Completed 937.50
Usual 35 days 122.50
TOTAL COST, \$4225.00
Bond, none. Limit, 90 days after May 11. Forfeit, plans and specifications none.

COMPLETION NOTICES

San Francisco County

May 15, 1931—W 21st AVE 35 and 60 N Ortega N 25 x W 82-6 (two completions). C and F Gellert to whom it may concern. May 14, 1931
May 15, 1931—W 21st AVE 85 N Ortega N 25 x W 120 S 10 E 27-8 S 15 E 82-6. C and F Gellert to whom it may concern. May 14, 1931
May 15, 1931—N ORTEGA 32-6 W 21st Ave W 25 x N 100. C and F Gellert to whom it may concern. May 14, 1931
May 15, 1931—LOTS 2, 3, 4 and 5 Elk 2973 Sub No 1, Mission Plk. Meyer Bros to whom it may concern. May 12, 1931
May 15, 1931—E 20th AVE 200 N Ortega N 50 x E 120. Thos F and M E Loftus to whom it may concern. May 15, 1931
May 15, 1931—E 28th AVE 100 South Kirkham S 25 x E 120. L J McCarthy to whom it may concern. May 15, 1931
May 15, 1931—SW SAN BRUNO AVE 134 NW Burrows 41x120. B Stone to whom it may concern. May 15, 1931
May 15, 1931—E 30th AVE 300 South Ulloa S 25 x E 120. A J and M Herzig to whom it may concern. May 15, 1931
May 15, 1931—ISLAIS Creek Reclamation District. Southern Pacific Co to whom it may concern. May 11, 1931
May 15, 1931—FOURTH STREET bet Townsend and Channel Sts. Southern Pacific Co, Eaton and Smith. May 11, 1931
May 14, 1931—E 23rd AVE 150 N Moraga 25x120. August Hallgren to whom it may concern. May 11, 1931
May 14, 1931—W ANDERSON 25 S Crescent. Wm Miller to whom it may concern. May 14, 1931
May 14, 1931—SE RUTLAND 67 W Harkness Ave 25x75. Wm Hansberg to whom it may concern. May 14, 1931
May 13, 1931—E ELMIRA 87-5 N Silver Ave N 25 x E 100 S 15-2 m or 1 SW 17-9 m or 1 W 87-5. Frank Coolish to Philipp Fetz. May 11, 1931
May 13, 1931—NE 18th and Connecticut. Paul Aglietti to Harry Parsons. May 1, 1931
May 12, 1931—E 28th AVE 225 South Judah S 25 x E 120. F J and H Gcheran to whom it may concern. May 12, 1931
May 18, 1931—SW CASITAS Avenue and SE Biter Alley SE 52 SW 86-975 NW 53 NE 87-393; 133rd Ave 150, 125 100, 75, 50, 25 S Ulloa S 25 x E 120. H & H Stoneson to

whom it may concern. May 15, 1931
May 16, 1931—125 N THORNTON Ave on W Bayshore Blvd. G A Borman to Wm T Hummel. May 15, 1931
May 16, 1931—N SILLIMAN ST 95x 120 W from Harvard St. V Bjorkman E H and M Reed to whom it may concern. May 14, 1931
May 19, 1931—E 34th AVE 25 and 50 S Ulloa St. Thomas J Sullivan to whom it may concern. May 18, 1931
May 19, 1931—N BROADWAY 87-6 E Scott N 100 x E 50. Mrs Julian Thorne or Edna E Thorne to Chas L Taylor and Wm H Jackson. May 19, 1931
May 18, 1931—LOT 3 BLK 2953 Map Sub No 4, Miraloma Park. The McCarthy Co to Meyer Bros. May 5, 1931
May 18, 1931—W 21st AVE 275 South Moraga 25x150. Gordon Leask to whom it may concern. May 15, 1931
May 18, 1931—NW TURK and Mason 75 on Turk x 42-6 on Mason. A Haase to Cahill Bros. May 15, '31
May 18, 1931—1001 MARKET ST. H Verbin to Chas T Williams Co. May 8, 1931

May 19, 1931—W GATES 49-54 N Ogden Ave N 25-65% W 70 S 25-04 E 23-4 E 46-8 m or 1 to beg. Inland Floor Co to whom it may concern. \$47.12
May 14, 1931—S CLARENDON AVE 309-10 W Burnett Ave W 50-3 x S 97-6 E 50 N 101-10. California Const Co to A Hindshaw. \$763.48
May 12, 1931—E NEVADA 95 N Cortland Ave N 39X E 100. Leo

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
591	Baird	Webb	3300
591	Johnson	Owner	3750
592	Sevo	Owner	3000
593	Donnelly	Marchant	3000
594	Glieglette	Owner	4500
595	Way	Gassett	6500
596	Richter	Nylander	5000
598	Tweed	Owner	8950
599	Mosby	Matheyer	4000
600	Seward	Owner	11000
601	Fleming	Owner	3950
602	Robbins	Owner	1200
603	Snow	Owner	1600
604	Sutlif	Bredhoff	3500
605	Foley	Mitchson	3000
606	Berkeley	Mitchelson	5000
607	Hull	Peterson	9000
608	Oakland	Owner	8000
609	Hartford	Nylander	5200
610	Trimlett	Owner	4100

FACTORY
(591) S CHASE ST. 100 E Pine St., OAKLAND; one-story factory.
Owner—Haird Brush Co., 1765 Chase St., Oakland.
Architect—Not Given.
Contractor—Webb and Whalin, 2930 22nd Ave., Oakland. \$3300

DWELLING
(591) E MAPLE AVE. 50 S Sylvan Ave., OAKLAND; one-story six-room dwelling.
Owner and Builder—O. W. Johnson, 3961 Magee Ave., Oakland.
Architect—Not Given. \$3750

DWELLING
(592) SW COR. 94th AVE. and Sunnyside St., OAKLAND; one-story 5-room dwelling.
Owner and Builder—John Sevo, 9728 Cherry St., Oakland.
Architect—Not Given. \$3000

(593) 6116 CONTRA COSTA ROAD, OAKLAND; 2-story 5-room dwelling.
Owner—J. Donnelly, 231 Mather St.
Architect—Guy L. Brown, American Bank Bldg., Oakland.
Contractor—Gordon Marchant, 3 2 0 1 Bruce St., Oakland. \$6900

DWELLING
(594) 814 BRIDGE ROAD, SAN LEANDRO; one-story 5-room dwelling.
Owner—Louis Glieglette, 5503 Telegraph Ave., Oakland.
Architect—Not Given. \$4500

DWELLING
(595) 961 LEE AVE. SAN LEANDRO; one-story 6-room dwelling.
Owner—Chas. Way, 393 Oakes Blvd., San Leandro.
Architect—Not Given.
Contractor—Chas. A. Gassett, 327 Woodland Park, San Leandro. \$6500

LIENS FILED

San Francisco County

Recorded Accepted
May 15, 1931—E WISCONSIN 297-4 S 20th St S 25-8 x E 100. Geo R Nelson vs I Rodrigues and Ash & Hand & Draper Hand. \$138.65
May 15, 1931—W LEE AVE 125 N Lakeview N 25 x W 112-6. Geo R Nelson vs S and A W Bright and Ash & Hand. \$310.40
May 15, 1931—N RANDOLPH 125 W Verrin W 75 x N 100. J Pellenti vs D B Smith. \$105
May 15, 1931—SW SAN BRUNO AVE 134 NW Burrows NW 41 x SW 120. C J Tilley and A S Thorensen vs B & A Stone. \$599.12
May 12, 1931—SE 22nd and Howard E 100 x S 100. Readymix Concrete Co, Ltd vs Sorenson & Haggmark and General Petroleum Corp of California. \$410.37
May 12, 1931—LOT 33 BLK B, Park Hill Assn, No. 64 Buena Vista Terrace. The Greater City Lumber Co vs H Thordanson and M A Ashburn. \$412.55
May 18, 1931—S SILVER AVE 30 S Madison E 25 x S 100. V and J Sherry vs J G Lehman and L B Terlip. \$130
May 18, 1931—E WISCONSIN 297-4 S 20th S 25-8 x E 100. Arc Electric Co vs I Rodrigues and D and A Hand. \$63
May 18, 1931—SW COR. 22nd and Howard Sts. Atlas Electric Co vs General Petroleum Corp. \$698.05
May 16, 1931—W LEE AVE 125 N Lakeview Ave N 25 x W 112-6. John Cassaretto vs S and A W Bright and Ash & Hand. \$37.15
May 19, 1931—LOT 10 BLK 139 map of Brown Estate Co. Emeryville Planing Mill vs J G Lehman and L B Terlip. \$102.95
May 19, 1931—W JONES ST 50 S Ellis St 50 x W 87-6. Wm Rosen vs Greenbach, The Pacific Building Co and B Kaplan. \$1221.55
May 19, 1931—S CLEMENT ST 70 W 3rd Ave W 25 x S 100 N T Hoagland and F Skuse vs A Crowley and F Wagner. \$72

RELEASE OF LIENS

San Francisco County

Recorded Amount
May 19, 1931—W GATES 24-54 N Ogden Ave N 25 x W 70. Inland Floor Co to whom it may concern. \$47.13

DWELLING
(596) 701 COLLIER DRIVE, SAN LEANDRO; 1½-story 6-room dwelling and garage.
Owner—Ralph Richter.
Architect—Not Given.
Contractor—Nylander Bros., 633 Montclair Ave., San Leandro. \$9000

BUNGALOW
(598) NO. 1842-44 HARVARD DRIVE
ALAMEDA. Two-story 11-room
frame and stucco duplex bungalow
Owner—Earl W. Tweedt, 1707 36th
Ave., Oakland.
Architect—Owner. \$9550

DWELLING
(599) S MELDON AVENUE 300 West
Birdsall Ave., **OAKLAND;** two-
story 7-room dwelling.
Owner—C. Mosby, Los Angeles.
Architect—Not Given.
Contractor—L. B. Matheyer, 317 S
Birdsall Ave., Oakland. \$4000

RESIDENCE
(600) NO. 554 BLAIR AVE., **PIED-**
MONT. Two-story 8-room frame
residence and garage.
Owner—Sigwald Bros., 916 Alma Ave.,
Oakland.
Architect—Ray Keefer, 3281 Lake St.,
Oakland. \$11,000

DWELLING
(601) W TWENTY-FIFTH AVE 200
S E-25th St., **OAKLAND.** One-
story 6-room dwelling.
Owner—John Fleming, 4261 Suter St.,
Oakland.
Architect—Not Given. \$3950

ADDITION
(602) NO. 1033 ASHMOULT AVE.,
OAKLAND. Addition.
Owner—M. H. Robbins, 1033 Ashmount
Ave., Oakland.
Architect—Not Given. \$1200

ALTERATIONS
(603) NW FORTY-SEVENTH AND
Grove Sts., **OAKLAND.** Altera-
tions.
Owner—J. F. Snow Cleaners, 47th and
Grove Sts., Oakland.
Architect—Not Given. \$1600

RESIDENCE
(604) NO. 1485 ORDWAY AVENUE,
BERKELEY. One-story 6-room 1
family frame residence and gar-
rage.
Owner—Sutliff Realty Co., Hopkins
St., Berkeley.
Architect—W. L. Brodrick, 407 Koer-
ber Bldg., Berkeley.
Contractor—Bredhoft & Dull, 1328
Carlotta St., Berkeley. \$5500

SHOP
(605) NO. 2039 FOURTH ST., **BER-**
KELEY. One-story 1-room gal-
vanized iron paint shop.
Owner—H. D. Fuller, Barber Hotel,
Berkeley.
Architect—Story & Hastings, Prior
Bldg., Monterey.
Contractor—Mathison Constr. Co.,
Pacific Grove. \$3000

ALTERATIONS
(606) NO. 1 TUNNEL ROAD, **BER-**
KELEY. Alterations.
Owner—Berkeley Tennis Club, Prem.
Architect—Not Given.
Contractor—J. P. Michelson, 1630 Al-
catraz Ave., Berkeley. \$5000

STATION
(607) NO. 1008 UNIVERSITY AVE.,
BERKELEY. One-story super-
service station Class C construc-
tion.
Owner—E. B. Hoy, 1600 Lakeshore
Ave., Oakland.
Architect—A. E. Lathan, 1625 64th
Ave., Oakland.
Contractor—George Peterson, 1841
Baneroff Rd., San Leandro. \$9000

SHED
(608) W HIGH ST. 75 N Watling
St., **OAKLAND.** One-story shed.
Owner—Oakland Public Schools, 1025
2nd Ave., Oakland.
Architect—Not Given. \$8000

DWELLING
(609) E MONZOL AVE 100 S Moun-
tain Blvd., **OAKLAND.** Two-
story 6-room dwelling and garage.
Owner—R. Hartford, 4129 G Penniman
Ave., Oakland.
Architect—Not Given.
Contractor—Nylander Bros., 633 Mont-
clair Ave., Oakland. \$5200

DWELLING
(610) N MONADNOCK WAY 40 W
64th Ave., **OAKLAND.** One-story
3-room dwelling and one-story gar-
age.
Owner—Robert Trimlett, 4340 Flem-
ing Ave., Oakland.
Architect—Not Given. \$4100

BUILDING CONTRACTS

ALAMEDA COUNTY

No. Owner	Contractor	Amt.
79 Capital	Sullivan	5998
80 Alameda	Golden	10860
81 Hoy	Petersen	8740

STORE
(79) SW OCEAN VIEW DRIVE and
College Avenue, Oakland; general
construction on store building.
Owner—Capital Co., San Francisco.
Architect—H. A. Minton, Bank of
America Bldg., San Francisco.
Contractor—Sullivan & Sullivan, 3927
30th Ave., San Francisco.
Filed May 14, '31. Dated May 11, '31.
1st and 15th of each month.....75%
Usual 35 days.....25%
TOTAL COST, \$5998
Bond, \$5998. Sureties, Hartford Acci-
dent & Indemnity Co. Forfeit, \$20 per
day. Limit, July 1, 1931. Plans and
Spec. filed.

THEATRE
(80) PTN LOT 8 BLK 49. Map of
lands adjacent to the town of
Encinal; also Ptn Blk 49 Map of
the Boehmer Property, Alameda.
Structural steel work for theatre
and store building.
Owner—Alameda Amusement Co., 25
Taylor St., San Francisco.
Architect—J. R. Miller and T. L.
Pfeuger, 580 Market St., San
Francisco.
Contractor—C. S. Hoffman and L. W.
Flegner (Golden Gate Iron Works)
1541 Howard St., S. F.
Filed May 19, '31. Dated May 18, '31.
On 5th of each month.....75%
Usual 35 days.....Balance
TOTAL COST, \$10,860
Bond, \$10,860. Surety, Fidelity & De-
posit Co. of Maryland. Limit, 100
days. Forfeit, none. Plans and
specifications filed.

SERVICE STATION
(81) S UNIVERSITY AVE, bet. 9th
and 10th Sts., Berkeley. General
contract for brick service station.
Owner—S. B. Hoy, 1600 Lakeshore
Ave., Oakland.
Architect—A. E. Lathan.
Contractor—George Petersen, 1841
Baneroff St., San Leandro.
Filed May 19, '31. Dated May 18, '31.
Completion of brick work.....\$2900
Completion of building.....2900
Usual 35 days.....2940
TOTAL COST, \$8740
Bond, \$8740. Surety, Fidelity & De-
posit Co. of Maryland. Limit, 90 days.
Forfeit, none. Plans and specifications
filed.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded	Accepted
May 15, 1931—NEWARK Substation, Newark. Pacific Gas and Electric Co to whom it may concern.....	May 7, 1931

May 15, 1931—LOT 25 and S 15 ft lot 34 blk 27, map No 8 of Regents Park, Albany. Alton E Gould to whom it may concern.....	May 14, 1931
May 15, 1931—LOT 121, St James Wood, Piedmont. Alfred Frank to Pendleton & Frank.....	May 14, 1931
May 14, 1931—LOT 32, BLOCK 32, Amended Map of Fairmount Park, Albany. Thorvald Pedersen to Self	May 11, 1931
May 13, 1931—LOT 1 BLK L, Durant Manor, Oakland. Charles W and Ada J Griffith to whom it may concern.....	May 12, 1931
May 13, 1931—PTN LOT 4 BLK L, Melrose Acres, Oakland. Rolf and Olga Embroden to whom it may concern.....	May 9, 1931
May 13, 1931—INTERSECTION SE Marin Ave. and W Cragmont Ave Berkeley. Jack and Anna Sarrah Smith to Earle R. Converse.....	May 6, 1931
May 12, 1931—SE EIGHTH-THIRD Ave. and Poothill Blvd., Oakland. Frank Garatti to C E Atkinson.....	April 15, 1931

May 18, 1931—NW LINE OF THE
property desc in deed from Ma-
thias Wall and wife to A H Rein-
feldt recorded in Liber 1433 of
Deeds page 414, Alameda County
Records distant thereon N 58 deg
E 125 ft from NE line of Idlewood
St., etc., Oakland. L H Pendleton
to George Duncan.....

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
May 15, 1931—LOTS 1 and 2 BLK 13 Lakeside Sub of Adams Point T'ct, Oakland. A L Solon and E Schemmel vs business of Solon & Schemmel vs Harry and Ester Schuster.....	\$615.83
May 15, 1931—LOTS 1 and 2 BLK 13 Lakeside Sub of Adams Point T'ct, Oakland. Concealo Fixture Co vs Harry Schuster, California In- dustrial Bldg & Loan Assn, Tilden Mill & Lumber Co.....	\$1,911.25
May 15, 1931—LOTS 1 and 2 BLK 13 Lakeside Sub of Adams Point T'ct, Oakland. Maurice Friedman doing business as M Friedman & Co vs Harry Schuster, Pacific Painting & Decorating Co.....	\$567
May 15, 1931—LOTS 1 and 2 BLK 13 Lakeside Sub of Adams Point T'ct, Oakland. Maurice Friedman doing business as M Friedman Co vs Harry Schuster.....	\$47.48
May 15, 1931—LOTS 1 AND 2 BLK 13, Lakeside Subd of Adams Tct Oakland. Superior Tile & Pro- ducts Co, \$1906; Chas Osgood, \$232.12; Ed J Waterhouse, \$356.96; Tilden Mill & Lumber Co, \$495.46; Hipolito Co., \$542; Western Roof- ing Co, \$275; Parquette Inlaid Floor Co, \$400; Pacific Painting & Decorating Co, \$1858; Snoon Co, \$2998.97 vs Harry Schuster.....	\$5453.62
May 13, 1931—LOTS 1 AND 2 BLK 13, Lakeside Subdivision of Adams Tract, Oakland. Arthur Moore vs Harry Schuster and California Building & Loan.....	\$5453.62
May 13, 1931—LOT 3 BLK 5, Berke- ley Square, Berkeley. Rocke- Electric Co vs Frank H and Eulah Peit.....	\$209.70
May 13, 1931—LOTS 1 AND 2 BLK 13, Lakeside Subdv of Adams Point Ppty, Oakland. T Chris-	

Hansen and H. E. Grutsch vs Harry and Esther Schuster. \$923.70
 May 19, 1931—747 ALCATRAZ Ave., Oakland. Western Roofing Co vs Mary B. Jones, formerly Mary B. Nickerson \$130
 May 16, 1931—LOTS 1 and 2 BLK 13 Lakeside Subdiv of Adams Point Property, Oakland. Smith Lumber Company of Oakland vs Harry Schuster \$147.84

& Olund, Ltd., 145 El Camino Real San Mateo.
 RESIDENCE, \$4500; Lot 20 Blk 5, No. 218 23rd Ave., San Mateo; owner, Wm. Auerbach; contractor, Herman Budan

LIENS FILED
SAN MATEO COUNTY

Recorded Amount
 May 13, 1931—PART LOT 12 BLK 9, Menlo Oaks. Merner Lumter Co vs T J Gilligan \$77.95
 May 12, 1931—PART LOT 12, BLK 9, Menlo Oaks. Peninsula Building Materials Co, \$118.50; Sunset Lbr Co, \$50.64; Thiden Lbr Co, \$500.98; Wm T Casey, \$108.50, vs T J Gilligan
 May 12, 1931—LOTS 46 and 47 BLK 2, San Bruno. California Terrazzo
 May 15, 1931—LOT 4 BLK 22, Lomita Park. Al Vigert, \$15; C C Sayre, \$183.70 vs L R Milne et al

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
 May 13, 1931—LOTS 8, 9, 10, 11, 12, San Bruno. Gino Barsocchini, et al to O H Taylor May 8, 1931
 May 12, 1931—PART LOT 5 BLK 1, Burlingame. Joel W Kaufman to D Sabin May 10, 1931
 May 13, 1931—PART LOT 7, Woodside Acres. Glambatista Cassaretto to whom it may concern May 4, 1931
 May 13, 1931—LOT 16 BLK 24, Redwood Highlands. David Halden to Self May 13, 1931
 May 14, 1931—LOT 22 BLK 37, Redwood Highlands. John W Morey, et al to whom it may concern April 20, 1931
 May 14, 1931—LOT 4 BLK 4, Beresford Manor. George A Worrall, et al to whom it may concern May 9, 1931
 May 14, 1931—LOT BLK A, Fay's Redwood Gardens. Fred R Erdman et al to Sam B Goss May 11, 1931

RELEASE OF LIENS

Alameda County

Recorded Amount
 May 14, 1931—1520-1522 HARRISON St., Oakland. Thos G Jacques, \$315.54; R C Buchanan, \$22; Albert Wathen, \$142.50; San Callorafin, \$35 to Mabel T Pease, et al
 May 14, 1931—LOT 3 BLK N, Map Homestead Assn, Alameda. Harold B Page, also known as I I Page to Emil Ichters \$410.40
 May 13, 1931—N BEGIER AVE 110.23 W Woodland Ave., San Leandro. Brockhurst Tile Co to H F Brunner, Eleanor Brunner and Joseph Franklin \$96

BUILDING CONTRACTS

SAN MATEO COUNTY

RESIDENCE
 LOT 48, Gray Tract, San Mateo. All work for one-story five-room stucco residence.
 Owner—Charles Elliott et al, 412 Strambaugh St., Redwood City.
 Architect—Not Given.
 Contractor—Emil G. Steinegger, 81 Foothill Blvd., Redwood City.
 Filed May 15, '31. Dated May 9, '31.
 Roof on \$650
 When plastered 650
 When completed 650
 Usual 35 days Balance
 TOTAL COST, \$3421
 Bond, none. Limit, 90 working days. Forfeit, none. Plans and specifications filed.

BUILDING PERMITS

SAN MATEO

BUNGALOW and garage, \$5800; Lot 16 Blk 54, No. 126 S-Humboldt St., San Mateo; owner, Henry Ston; contractor, J. E. Bale, 895 Highland St., San Mateo.
 RESIDENCE, \$4000; E 10 ft. Lot 24 and W 30 ft. Lot 25 Blk 7, 25th Ave., San Mateo; owner, Castle Bldg. Co., 530 Market St., San Francisco; contractor, G. W. Morris, 95 Pinehurst Way, San Francisco.
 RESIDENCE, \$4500; W 1/2 Lot 5 BLK 6, No. 290 Third Ave., San Mateo; owner, Gertrude Ramsey; contractor, Fred Ramsey.
 STORE, \$5000; Lot 30 Blk I, No. 101 South Blvd., San Mateo; owner, Mr. and Mrs. Pancherich; contractor, M. L. Serantor.
 STORE and apartments, \$5600; Portion Blk 26, No. 612 E-Third St., San Mateo; owner, Adolph Mimmer; contractor, Lengfeld & Olund, 145 El Camino, San Mateo.
 RESIDENCE, \$7500; Lot 17 Blk 4, Fordham; owner and contractor, Robt. H. Smith, 1493 Burlingame Ave., San Mateo.
 RESIDENCE, \$7500; Lot 17 Blk 4, Foundation Road, San Mateo; owner and contractor, Robt. H. Smith, 1493 Burlingame Ave., Burlingame
 RESIDENCE, \$4000; Lot 10 Blk 21, No. 931 S-Grant St., San Mateo; owner and contractor, Lengfeld

May 12, 1931—PART LOTS 5 and 6 Blk 11, Burlingame. U S Simonds et al to Simonds & Simonds May 1, 1931
 May 12, 1931—LOTS 15 and 16 BLK 5, Sequoia Tract. C J Kearns to whom it may concern May 12, 1931
 May 12, 1931—PART LOTS 5 and 6 Blk 9, East San Mateo. Antonio Ferrari to Hodgson & Ward May 1, 1931
 May 15, 1931—LOT 22 BLK 7, Edgewood Park, San Mateo. Paul Buthmann to whom it may concern May 15, 1931
 May 15, 1931—LOT 7 BLK 15, Vista Grand. Ruth Tiedemann to whom it may concern May 7, 1931
 May 15, 1931—LOTE 24 AND 25 BLK 15, North Fair Oaks. Mary A Yates et al to whom it may concern May 15, 1931
 May 15, 1931—LOT 5, Charles Weeks Fourth Addition, San Mateo. John C Stewart by Agent Hattie M Hatfield to whom it may concern May 14, 1931
 May 16, 1931—LOT 47, Gray Tract, San Mateo. Allison B Elliott to Emil G Steinegger May 14, 1931
 May 16, 1931—LOT 11 BLK 1, Jefferson Park, San Mateo. Castle Building Co to Henry Horn May 12, 1931
 May 16, 1931—LOT 17 BLK 10, Central Park. The Doxser Co to whom it may concern May 14, 1931
 May 16, 1931—PARTS LOTS 15 & 16 Blk 9, Jas A Robinsin Sub. San Mateo. Eugene Ahern et al to C D Williamson May 15, 1931
 May 18, 1931—PART LOTS 4 AND 5 Blk 16, Easton. Ray Greene to A Goss May 16, 1931

BUILDING CONTRACTS

SANTA CLARA COUNTY

ALTERATIONS
 E S-FIRST ST., bet. San Carlos and San Salvador Sts., San Jose. All work for remodeling one-story and two-story store building.
 Owner—Hale Bros. Realty Co. (A Development Corp.)
 Architect—Binder & Curtis, 35 W-San Carlos St., San Jose.
 Contractor—H. A. Bridges, 1398 San Jose.
 Filed May 11, '31. Dated May 5, '31.
 As work progresses 75%
 Usual 35 days 25%
 TOTAL COST, \$11,863
 Bond, \$950. Sureties, A. B. Ross and James Beatty. Limit, 60 working days from May 11, 1931. Forfeit, none. Plans and specifications filed.

BUILDING PERMITS

SAN JOSE

ALTER Class C business building, \$11,865; No. 330-334 S-First St., San Jose; owner, Hale Bros., 310 S-First St., San Jose; contractor, Binder & Curtis, 35 W-San Carlos St., San Jose; contractor, H. A. Bridges, 1296 Lincoln St., San Jose.
 RESIDENCE, 6-room frame, \$4000; Naglee near Park St., San Jose; owner, C. S. Bourdeau, 42 South Eighth St., San Jose; architect, J. B. Peppin, Oakland.
 RESIDENCE, frame, 5-room, \$5000; Mission St. near Second, San Jose; owner, Wm. Walsh, 745 N-Second St., San Jose; architect, Wolfe & Higgins, 19 N-Second St., San Jose; contractor, Sano Di Fiore, 985 Hamline St., San Jose.
 RESIDENCE, frame, 5-room, \$3800; No. 373 W-Emprise St., San Jose; owner, M. Romano, 373 W-Emprise St., San Jose; contractor, E. Rivera 246 N-Seventh St., San Jose.
 ALTER Class C business building, \$2000; No. 263 E-First St., San Jose; lessee, Allen Young, 145 S-First St., San Jose; contractor, H. A. Bridges, 1398 Lincoln St., San Jose.

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San Francisco

ALTER Class C business building, \$1900; SW Second and San Fernando Sts., San Jose; owner, Koehner Bros., Commercial Bldg., San Jose; architect, Geo. Koehner, Commercial Bldg., San Jose; contractor, A. G. Lantz, 378 W-San Fernando St., San Jose.

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$6000; No. 377 Dana Ave., Palo Alto; owner, Chas. E. and Emma D. Pogue; contractor, W. H. Gibson, 533 Woodland Ave., East Palo Alto.

ADDITION to store, \$2700; No. 340 University Ave., Palo Alto; owner, Geo. W. Liddicott, Premises; contractor, L. E. McIntyre.

ADDITION to residence, \$3000; No. 525 Lincoln Ave., Palo Alto; owner, Ernest W. Martin, Premises.

RESIDENCE, stucco, \$3500, No. 375 Grant St., Palo Alto; owner, Hilda Magnusson; contractor, Emil Magnusson.

SHINGLE residence, \$6000; No. 2121 Webster St., Palo Alto; owner, James M. Allen, 1228 Byron St., Palo Alto; architect, Guy Koeppe; contractor, E. A. Aldrich.

BUILDING PERMITS

REDWOOD CITY

ADDITION, 3-room and bath, \$3500; No. 521 Arlington Road, Redwood City; owner, C. L. Stokes, 321 Arlington Rd., Redwood City.

DWELLING, duplex, frame, 8-room, 2 baths and garage, \$3500; No. 412-414 Hudson St., Redwood City; owner, C. L. White, 511 Buckeye St., Redwood City.

DWELLING, frame, \$1500; No. 253 Fairview St., Redwood City; owner, Gustav Schlögl.

BUILDING PERMITS

BURLINGAME

BUNGALOW, \$—; Lot 2 Elk 42 E 3 Cabrillo St., Burlingame; owner and contractor, W. O. Nicolaides, 236 Clark Drive, San Mateo.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded	Accepted
May 5, 1931—LOTS 18 AND 19 BLK 4, Vendome Park No. 2, San Jose	George D. McCrary to whom it may concern.....May 5, 1931
May 5, 1931—LOT 6 BLK 82, Breck Subd., Palo Alto. L H Wood et al to whom it may concern.....May 2, 1931	
May 6, 1931—SECOND, MISSION, Fourth and Rosa Sts., San Jose. San Jose High School District to whom it may concern (painting, hardware, window shades, general work for Peter H. Burnett Jr. High School; four completions).....May 5, 1931	
May 6, 1931—LOTS 5 AND 16 BLK 30, College Terrace, San Jose. Elizabeth Brown to whom it may concern.....May 5, 1931	
May 6, 1931—S MCKENDRIE ST., bet. Chapman and Morse Sts., San Jose. Charles S. McKenzie to whom it may concern.....May 2, 1931	
May 7, 1931—LOTS 5 AND 6 BLK 15, College Terrace, San Jose. Frank L Cogswell to whom it may concern.....May 5, 1931	
May 7, 1931—LOT 5, Broadway Court, San Jose. W. H. Ackerman to whom it may concern.....May 7, 1931—W MAIN ST. 56 N	

Lexington St. 152 1/2 E Jackson St. 15 3/4 W 7 1/2 S 2 1/4 E 2 S 49 E 7 1/4 to beg Part Lot 2 Blk 2 S R 2, W Santa Clara. Harold H Slavons to whom it may concern.....May 4, 1931

May 8, 1931—NE SIXTEENTH ST. 30 W San Fernando St. San Jose. S H Adams and et al to whom it may concern.....May 7, 1931

May 8, 1931—BEG. S 50 FT. LOT 9 Blk 4 E R 2 E Castro & Calderon Subd., Mt. View. Antone and Elizabeth Kamerschen to whom it may concern.....April 30, 1931

May 9, 1931—22.95 AC ON W Quarto Rd South of Southern Pacific Railroad. H C Hutton to whom it may concern.....May 8, 1931

May 9, 1931—PART LOTS 29 AND 30, Delwood Park. E James Bailey to whom it may concern.....May 1, 1931

May 9, 1931—S HAMILTON AVE., Part Lot 1, P. G. Keith Subd. No. 1, San Jose. Arthur N De Sella to whom it may concern.....May 8, 1931

May 11, 1931—LOT 19, Willow Home. Antone Brotzman to whom it may concern.....May 11, 1931

May 11, 1931—LOT 49, Willow Glen Orchard Tract. T L Hubbard to whom it may concern.....May 11, 1931

May 11, 1931—LOT 14, Willow Glen Orchard Tract. San Jose. T L Hubbard to whom it may concern.....May 11, 1931

May 11, 1931—LOTS 11 AND 12 BLK 21, College Terrace, San Jose. Henry W Tollner to whom it may concern.....May 8, 1931

May 12, 1931—LOTS 34. Adams & Keller Subd., San Jose. L C Rossi to whom it may concern.....May 8, 1931

May 12, 1931—LOTS 55 AND 56 BLK 3, Vendome Park, San Jose. Joseph Coila et al to whom it may concern.....May 11, 1931

May 12, 1931—S HAMILTON AVE 132 W Ashby Ave W 75.5X85 150 Part Lots 16 and 17, Addition, Palo Alto. E H and Ida E Helm to whom it may concern.....May 11, 1931

May 12, 1931—W PTN LOT 1 BLK 4 E R 3, Bailey Addition, Mt. View. Mrs M E Holden to whom it may concern.....May 8, 1931

May 13, 1931—LOTS 41 AND 42, Saverker Subd. No. 2, San Jose. Lina Edith Everett to whom it may concern.....May 13, 1931

May 14, 1931—LOT 43, Willow Glen Orchard Tract, San Jose. N J Nielsen to whom it may concern.....May 14, 1931

May 14, 1931—ON 14.61 AC ON SAN Francisco and San Jose Road with exceptions. Frank J Di Maria to whom it may concern.....May 14, 1931

May 14, 1931—LOT 22, Franklin Tract, San Jose. Guilia Zotta to whom it may concern.....May 13, 1931

May 14, 1931—LOT 10 BLK 7, North Glen Residence Park, San Jose. Orval W Dodd to whom it may concern.....May 13, 1931

LIENS FILED

SANTA CLARA COUNTY

Recorded	Amount
May 13, 1931—LOT 19, Barron Park San Jose. Merner Lumber Co vs L Goldstein et al.....\$11.50	
May 7, 1931—PART LOTS 42 AND 43 M & M Taaffe Sub., Mt. View. Geo Holmes, \$40; Ray J Keven, 72; Drifton Wood, \$35; Ed Pogat, \$50; W Thurber, \$50; D A Kevan, \$68 vs Erminio Boccardo.....\$67.50	
May 11, 1931—LOT 19, Barron Park, San Jose. C J Denton vs L Goldstein et al.....\$67.50	
May 13, 1931—LOT 19, Barron Park, San Jose. F H Purcell, \$500; Merner Lumber Co, \$325.53; Merner Lumber Co, \$367.19 vs L Goldstein et al.....\$1342.62	

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded	Amount
May 5, 1931—PART LOTS 17 AND 24, S. Clarke Subd., San Jose. Merner Lumber Co vs Lewis Bohlin et al.....\$161.2	
May 5, 1931—PART LOTS 17 AND 24, L. S. Clarke Subd., San Jose. Merner Lumber Co to Lewis Bohlin et al.....\$161.2	
May 8, 1931—LOT 28, Emerson Tract, San Jose. W C Duck-tracht, San Jose to Evan Churin.....\$161.2	

BUILDING PERMITS

STOCKTON

DWELLING, rustic, 2-story and garage, \$5500; No. 201 Alhambra Ave., Stockton; owner, L. A. Randolph 100 Knowles Way, Stockton; contractor, Randolph & West, 100 Knowles Way, Stockton.

DWELLING, brick veneer, five-room and garage, \$4200; No. 1736 W. Willow St., Stockton; owner, Louis Trenque; contractor, George D. Beatty, 1704 W-Willow St., Stockton.

THEATRE, Class A, \$150,000; No. 630-632 E-Main St., Stockton; owner, J. E. Lane, Laura E. Clark and George Rosch; lessee National Theatres Syndicate.

DWELLING, duplex, brick veneer, 10-room and garage, \$6900; No. 170 Knowles Way, Stockton; owner, Marvin A. Rader, 3616 Pacific Ave., Stockton; contractor, S. C. Giles, 121 Knowles Way, Stockton.

DWELLING, rustic, 4-room, \$1200; No. 348 S-Stanislaus St., Stockton owner, Frank Amberger; contractor, H. Wortwell.

DWELLING, rustic, 5-room and garage, \$2000; No. 1814 S-American St., Stockton; owner, C. M. Kiser.

COTTAGE, brick veneer, 7-room and garage, \$5000; No. 1827 Allston Way, Stockton; owner, M. E. Grimley, Premises; contractor, J. M. Heltzerbrand, 2644 E-Main St., Stockton.

DWELLING, brick veneer, 6-room and garage, \$5000; No. 2221 Dwight Way, Stockton; owner, R. W. Pratt, 530 E-Walnut St., Stockton contractor, M. A. Orcutt, 620 N-Central St., Stockton.

SWIMMING tank, \$1500; No. 715 Lexington Ave., Stockton; owner, Irving Martin, Jr., 923 N-Yan Duren St., Stockton; architect, not given contractor, J. A. Allen, 525 E-Market St., Stockton.

DWELLING, brick veneer, 5-room and garage, \$4450; No. 1724 W-Walnut St., Stockton; owner, David Camponico; contractor, F. P. Dobson, 1150 W-Harding Way, Stockton.

DWELLING, brick veneer, 6-room, \$4200; No. 1540 W-Walnut St., Stockton; owner, William Penstra 2251 Kensington Way, Stockton.

DWELLING, brick veneer, 5-room and garage, \$5000; No. 1051 W-Elm St. Stockton; owner, Fred Matteoni; contractor, J. Al. Heltzerbrand, 2644 E-Main St., Stockton.

DWELLING, brick veneer, 6-room, \$4500; No. 1644 W-Walnut St., Stockton; owner, C. H. Barton, 1014 N-Wilson Way, Stockton.

REMODEL two-story building into hotel, \$1500; No. 12 E-Sonora St., Stockton; owner, Teronina Saugnetti et al, Premises; contractor, J. O. Barker, Country Club Blvd., Stockton.

DWELLING, rustic, 6-room, \$1260; No. 675 S-Central Ave., Stockton; owner, Mark Brunton, 2500 N-Estero St., Stockton; contractor, F. P. Dobson, 1150 W-Harding Way, Stockton.

STATION, super-service, \$6800; No. 1240 S. El Dorado St., Stockton; owner, Dietrich & Leistner, 26 S. San Joaquin St., Stockton; lessee, Union Oil Co.

DWELLING, stucco, six-room and garage, \$5000; No. 727 S-Regent St., Stockton; owner, Stockton Electric Railway, N-California St., Stockton.

DWELLING, brick veneer, six-room and garage, \$4500; No. 1747 W-Harding Way, Stockton; owner, William Peenstra, 2261 Kensington Wav. Stockton.

DWELLING, brick veneer, five-room and garage, \$4400; No. 1793 W-Walnut St., Stockton; owner, T. E. Williamson, 1859 W-Park Ave., Stockton.

DWELLING, brick veneer, six-room and garage, \$6000; No. 1649 W-Willow St., Stockton; owner, T. E. Williamson, 1859 W-Park Ave., Stockton.

DWELLING, rustic, 5-room and garage, \$2350; No. 227 Ellis St., Stockton; owner, A. C. Dahl, 137 E-Pine St., Stockton.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
May 14, 1931—LOT 17 BLK 10 1/2 map of Homestead Addn, Salinas City. Lucie F Abbott to Thomas Hunt.....\$1200

May 14, 1931—PART OF LOT 5 map of the Samuel Rea Subdiv of Bardue Ranch. Frank Hugues to whom it may concern.....May 7, 1931
May 16, 1931—LOT 13, Sunset Addition, Monterey. John Kobz to whom it may concern.....May 15, 1931

LIENS FILED

MONTEREY COUNTY

Recorded Amount
May 16, 1931—LOTS 1, 2, 3 AND 4 Blk 45, Map of East Monterey. Charles C Cain vs William Forkner and Edith A Roberts.....\$120
May 13, 1931—LOTS 1, 2, 3 and 4 Block 65 map of East Monterey. Roy Barton and Joseph Godrich vs William Forkner and Edith A Roberts.....\$695

RELEASE OF LIENS

MONTEREY COUNTY

Recorded Amount
May 14, 1931—PTN LOT 8 BLK 32 Block Book of the City of Monterey. J C Warrington, \$331.96; Arthur Manata, \$735; Tynan Lumber Co, \$223; T A Work Jr and Stuart A Work, \$1322.11; George D and Victor H Patrick, \$760; C A Lewis, \$342; Roy H Wright, \$134.50; to Albert Gatti, Orazio and Katherine Crivello also known as Caterina Crivello.....

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
May 14, 1931—DESCRIBED PARCELS in Government of Gwin Ranch and Rancho Monte Del Diablo. California Water Service Co to I P Tixlob.....May 8, 1931
May 15, 1931—9 IN 304, Cornwall Subdivision, Pittsburg. Geo Rose to whom it may concern.....

May 15, 1931—24 IN 303, Cornwall Subdivision. Geo Rose to whom it may concern.....May 10, 1931
May 16, 1931—LOTS 32 AND 33 BLK

38, Spaulding Richmond Pullman Townsite. Martin G Dahl to whom it may concern.....May 16, 1931
May 16, 1931—LOT 26 BLK L, Berkeley Highlands. Henry S and Gertrude I Gross to whom it may concern.....May 11, 1931
May 11, 1931—LOTS 29 AND 40 BLK 14, Richmond City Center. Schapiro & Corrie, Ltd to whom it may concern.....May 9, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
May 14, 1931—LOT 8 in Map of Bella Vista Subdivision. O L MacQuiddy Hardware Co vs Lewis G and Pearl L Chambers.....\$355.25
May 14, 1931—LOTS 1, 2, 3, 4, 10, 11, 42 43 and 44 Blk 1 Subdivision of Blk 1 West Town of Rodeo. Edwin Price vs C Valine and Frank Lawrence.....\$719.60
May 15, 1931—LOT 3 BLK 6, Fosterkett Addition No. 2, Town of Concord. Paul L Keller and Walter E Lewis vs Hugo E Carlson, Doe.....\$447.78
May 15, 1931—PTN LOT 25 in Undivided Lands in Estate of Francisco Galindo Diamond Match Co (a corp.) vs Clinton E and Sarah Stevens.....\$127.35
May 9, 1931—PTN RANCHO MONTE DEL DIABLO. Diamond Match Co vs V A and Tillie Peters.....\$241.30

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
May 12, 1931—LOT 8 BLK 1, Proctor Terrace Addn, Santa Rosa. Angelina Bandieri to Mutual Home Bldrs Assn.....May 11, 1931

LIENS FILED

SONOMA COUNTY

Recorded Amount
May 15, 1931—BLK 35 McDonald's Addn to Santa Rosa, 75x150. H A Reese, \$528.42 plus \$6; Dixon Hwd & Implement Co, \$338.47 plus \$6; Geo Mitchell, \$253.45 plus \$6; L A Drake, \$155.55 plus \$6; Santa Rosa Bidg Materials Inc., \$170.77 plus \$6; R D Robinson, \$230 plus \$6; L L Dibble, \$504 plus \$6; McKinney & Titus, \$318, vs William T and Elizabeth Owen.....

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
May 16, 1931—LOT 10 BLK 29 Sub No. 2, Tuxedo Park, Stockton. Harold F Ahearn to T E Williamson.....May 15, 1931
May 14, 1931—LOT 10 BLK 5, Lomita Park. J M Helterbrand to J M Helterbrand.....May 9, 1931
May 14, 1931—LOT 10 BLK 6, City Park Terrace, Stockton. Lenore F Dodd to whom it may concern.....May 11, 1931
May 14, 1931—LOT 6 BLK 3, Lakeview. Ernest L Williamson to J C Sacconi.....May 5, 1931

BUILDING PERMITS

SACRAMENTO

HOUSE and garage, \$5000; 500 Palu Way; owner, H. Lund, 2549 Sixth Avenue.
RESIDENCE and garage, \$5000; 759 50th St.; owner, John Simmons, 4301 P St.
WORK omitted, \$6000; 1920 12th Ave.;

owner, J. Genshlea, 924 47th St.
HOUSE and garage, \$6500; No. 1650 11th St., Sacramento; owner, E. C. and J. T. Bryan, 2799 Florence Way, Sacramento; contractor, C. Vogt, 3332 Truckee St., Sacramento
HOUSE and garage, \$4700; No. 1173 Merriam Way, Sacramento; owner, W. Murcell, 200 V St., Sacramento
GENERAL repairs, \$2500; No. 1330 N St., Sacramento; owner, Mrs. Kapp 1412 O St., Sacramento; contractor, A. J. Fisher, 800 35th St., Sacramento.

HOUSE and garage, \$2400; No. 1032 51th St., Sacramento; owner, A. Nouchy, 2511 O St., Sacramento; contractor, Fernandez Bldg. Corp., 500 S St., Sacramento.

RESIDENCE and garage, \$5700; No. 315 36th St., Sacramento; owner, W. Murcell, 200 V St., Sacramento

RESIDENCE and garage, \$5000; No. 2240 Ninth Ave., Sacramento; owner, O. Froling, 1625 40th St., Sacramento.

RESIDENCE and garage, \$5600; No. 741 50th St., Sacramento; owner, A. Hackett, 1013 8th St., Sacramento.

RESIDENCE and garage, \$4000; No. 3922 First Ave., Sacramento; owner, Mr. Moore, 2912 35th Ave., Sacramento.

RESIDENCE and garage, \$5000; No. 1570 11th Ave., Sacramento; owner, O. Froling, 1625 40th St., Sacramento.

REST rooms, \$1500; No. 4601 7th Ave., Sacramento; owner, H. Sullivan, 1917 29th St., Sacramento.

GENERAL repairs, \$2000; No. 724 H St., Sacramento; owner, F. Snow, Placerville; contractor, Frank Maloney, 3172 T St., Sacramento.

RESIDENCE and garage, \$3500; No. 1169 Perkins Way, Sacramento; owner, C. Thompson, 3443 Sacramento Blvd., Sacramento.

RESIDENCE and garage, \$5900; No. 2148 C St., Sacramento; owner, J. Pedone, 914 S St., Sacramento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
May 14, 1931—S HALF LOT 182, Carmichael Co. J M and Josephine Burroughs to whom it may concern.....May 6, 1931
May 16, 1931—LOT 2172 W & K FCT 24, Annex. Burr T and Floris L Snyder to whom it may concern.....May 14, 1931

LIENS FILED

SACRAMENTO COUNTY

Recorded Amount
May 16, 1931—LOT 87 Ridge Park, Sacramento. H C Adams, \$100; R Herman, \$55 vs John Dandretta and Nick Martinelli.....
May 14, 1931—LOT 87, Ridge Park. Diamond Match Co vs John Dandretta.....\$33.30
May 14, 1931—LOT 87, Ridge Park. M Friedman Co vs John Dandretta and Nick Martinelli.....\$82.80
May 14, 1931—LOTS 3, 4, 5, 6, 7, 8, 9, 10 and 11, Alhambra Tract. M Friedman & Co vs Edward and Frances C Wahl, Edward and Zue Geery Pease and Fred Kaiser.....\$53.30
May 14, 1931—LOTS 5 and 6, Schley Place. Diamond Match Co vs John Dandretta and Nick Martinelli.....\$82.70

May 12, 1931—LOT 87 Ridge Park, Sacramento. Know Lumber Co vs John Dandretta and Nick Martinelli.....\$427.24
May 12, 1931—LOT 4 BLK 30, Woodlake Sub No. 1, Sacramento. Paul R Opdyke vs Eric Austin.....\$593.25

BUILDING PERMITS

FRESNO

DWELLING and garage, \$3600; No. 632 Wilson Ave., Fresno; owner, Dwight W. Doss, 3239 Illinois St., Fresno.
 ALTERATIONS and additions, \$—; Van Ness and Calaveras Sts., Fresno; owner, Fresno Bee, Print. contractor, N. L. McKenzie, 3612 Illinois St., San Jose.
 May 13, 1931—LOTS 5 AND 6 BLK 11, Alta Vista Terrace, Fresno.
 T C Irwin to Irwin & Hopkins..... May 13, 1931

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 May 14, 1931—LOTS 1 AND 2 BLK 1, Calwa, A B Romano to whom it may concern..... May 14, 1931
 May 18, 1931—LOTS 3 AND 4, Terrace Gardens, Taylor Wheeler, Inc to whom it may concern..... May 15, 1931

LIENS FILED

FRESNO COUNTY

Recorded Amount
 May 14, 1931—LOTS 9 AND 10 BLK 27, Sierra Vista Addition, T O Paint Store vs Lloyd L and Edith C Turner \$22
 May 18, 1931—LOTS 9 AND 10 BLK 27, Sierra Vista Addition, F E Hulbert vs Lloyd L Turner et ux. \$22
 May 12, 1931—LOTS 9 AND 10 BLK 27, Sierra Vista Addition, Fresno, John Vierwinden vs Lloyd Turner \$70
 May 16, 1931—LOTS 9 AND 10 BLK 27, Sierra Vista Addition, Fresno, Standard Blasting Mill, \$527; Malsler Bros. Lumber Co, \$225 vs Lloyd L Turner et ux

BUSINESS OPPORTUNITIES

John Comstock, 2120 3rd St., Ocean Park, Calif., is desirous of contacting hardware, automotive arm or garden tools concerns with view to representing them in Utah, Colorado and Wyoming.
 C. L. Pottelger, Warren-Knight Co., 136 North 12th St., Philadelphia, Pa., manufacturers of surveying instruments, are interested in establishing sales agent here.
 M. R. Sullivan, Cooper Oven Thermometer Co., Pequabuck, Conn., wishes to contact two advertising salesmen or distributing firms in San Francisco.
 John F. Leinen Chemical Co., 1415 Folsom St., San Francisco, wants distributors to distribute its chemical products and exterminators.

ENGINEERS BILL VETOED IN N. Y.

A bill to amend the New York State multiple dwelling law to place engineers on a par with architects in the filing of plans for multiple dwellings in all cities where the law is effective was vetoed by Governor Roosevelt after having been passed by both houses of the legislature, Engineering News-Record reports.
 The multiple dwelling law provides that plans for such dwellings are to be filed with the tenement house commissioner by the owner in person or by a registered architect acting as his agent. The amendment would have inserted the words "or by a professional engineer, experienced in the planning, designing, construction or alteration of such dwellings, buildings or struc-

tures" after the word architect. A similar bill, except for the qualifying phrase was presented to the New York legislature last year and was strongly opposed by the architectural profession because it would have permitted all engineers, whether or not experienced in building design, to file plans for multiple dwellings. Hence when the bill was submitted again this year the qualifying phrase was added. It still did not meet with approval of the architects. They desired some more definite limitation such as structural engineer. Engineers, on the other hand, oppose so restrictive a classification because it would prevent the filing of mechanical and electrical plans by engineers of those two branches of the profession.
 The governor, in vetoing the bill, said:

"This seems to be a hastily drawn piece of legislation. It provides that licensed engineers, in order to file plans, must be experienced in planning, designing, construction, or alteration of buildings, and it is possible that the amendments brings registered architects within the same requirement. "Who is to interpret the word 'experienced'? Is it the tenement house commissioner, or is it the department of education? The existing provisions of the education law make no adequate distinction between different classes of engineers. In view of the defects of the bill, it is necessary to disapprove it."

U. C. ARCHITECTURE DEPARTMENT AWARDS

Prof. W. C. Perry announces that nine prizes and medals have been awarded to students in the department of architecture of the University of California, for outstanding work in this field of study during the past year.
 The annual prize offered by Delta Sigma Chi, honorary professional architectural fraternity, consisting of an order for books was won by E. Branch Chinn, graduate student registered

from Fresno, on the basis of a sketch for a bookplate.
 The prize offered by Alpha Alpha Gamma, honorary professional architectural sorority, also an order for books, was won by Burton D. Cairns, graduate student registered from Palo Alto. Cairns was also chosen as the recipient of the medal offered by the American Institute of Architects for the student having the most distinguished record in his university work. With this medal went a copy of the book, "Mont St. Michel and Chartres," by Henry Adams.
 The prize offered by the Architectural Alumni Association for the student taking first place in the last senior problem competition, consisting of a book order, was won by Shepherd M. Johnson of Oakland. The title of Johnson's project was "A Hall for Honor Students."
 The prize offered by the Architectural Association for the best single piece of work in graduate design was won by Vernon A. DeMars of Oakland. This prize was a check for \$55. DeMars was also awarded one of the school medals for specially distinguished work in the solution of a problem.
 Other winners of school medals for specially distinguished work were: G. D. Christensen, senior from Ocean Park; Donald P. Smith, graduate student from San Diego, and Allen R. Johnson, graduate student from El Paso, Texas.

Francis J. Heusel, aged 24, Long Beach, Calif., instructor at the University of Illinois, won the Plym scholarship in architecture at the university against a field of more than 100 contestants. He is entitled to a years course in the Beaux Arts in Paris or the Academy of Arts at Rome. He will probably go to Paris.
 In an effort to stimulate volume of business a number of mills have cut rail prices of uppers \$2 and common lumber 50 cents to \$1 per thousand, according to reports from Seattle.



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Thirty-fifth Year, No. 22



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HOW

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Building and Engineering News

Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

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Thirty-fifth Year, No. 22

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AVERAGE COST OF DWELLINGS HITS LOW

The average cost of dwellings per family in 257 cities for which comparative figures are available for the last 10 years was \$4285 in 1930, the lowest mark since 1924, according to data supplied May 8 by the Bureau of Labor Statistics, Department of Labor, to the U. S. Bally at Washington, D. C. The cities all have populations of 25,000 or more and the costs do not include the prices of lots.

For single-family homes the average cost of \$4993 per family last year was higher in these cities than at any time in the last decade, the bureau's figures show. The average of \$3857 per family for apartment houses, including those with stores in the buildings, was, however, at the lowest point in 10 years. That of \$3924 for two-family homes was lower than for any year since 1922. The latter classification includes one and two-family structures with stores.

A definite reason can not be given for the decline in the cost per family for dwellings. It was pointed out orally at the bureau. The type of construction and the building of cheaper homes may have been factors. Wholesale prices of building materials in 1930 were nearly 12 per cent lower than in 1924 and more than 7 per cent under the 1921 levels, it was stated.

Union wage rates per hour in the building trades in 1930 were, on the other hand, more than 21 per cent higher than in 1924 and more than 36 per cent above the 1921 figure. Although the bureau has no data on the trend of wage rates of nonunion labor in the building trades, it is believed that it follows the union wages.

BUILDERS' EXCHANGE CONFERENCE ORGANIZED

Walter F. Sorensen, president of the Orange County Builders' Exchange, was elected president of the Builders' Exchange Conference of Southern California at a meeting held in Santa Monica, last week.

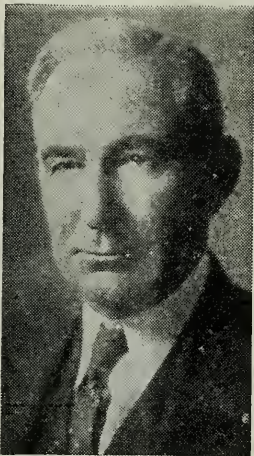
Nine exchanges in Northern California were represented at the meeting, at which time the organization was formed. Each exchange will retain its identity although the entire group will form the body of the new organization.

Harry Green of Los Angeles was elected secretary and Frederic Sandford, secretary of the Orange County committee, was appointed chairman of a committee to study the constitution and by-laws for the organization. The object of forming the conference of exchanges is to better building conditions in the southern section and to recommend action to the state organization.

The next meeting of the new Conference will be held at Irvine Park on July 9.

MEET THE COLONEL

Colonel Walter E. Garrison of Lodi, director of the State Department of Public Works, brings to the department a long experience in matters with which the department is chiefly concerned. As one of the most extensive vineyardists in California, Col. Garrison knows the water problems of this state from the point of view both of a practical irrigationist, and of one who has been active in the development of water for irrigation. In highway matters Colonel Garrison has been a prominent proponent of the cause of good roads since the earliest state highway days. He has been



particularly active in the development of improved highways in Stanislaus and San Joaquin counties, where he has made his home since his birth.

Colonel Garrison also brings to the administration a distinguished war record. He served with honor in the Philippines during the Spanish-American War. He was wounded twice in action in the World War, and his valor on the field of battle won for him an award from the French Government of the greatly coveted croix de guerre. He is now an active officer with the 181st Brigade, attached to the 91st Division.

C. O. Trussel and J. D. Fuller, formerly of Los Angeles, have leased quarters at 519 Blackstone Ave., Fresno, and will engage in the manufacture of window shades.

BUILDING INTERESTS IN CREDIT CONCLAVE

A credit conclave of the representatives of the building and building materials industries, including cement, lumber, brick and structural steel lines, numbering about 100 credit executives, will be one of the 22 credit group conferences which will feature the Credit Congress of Industry of the 26th annual convention of the National Association of Credit Men at Boston, Mass., June 22-27. It is announced by Elliot Balestier Jr., credit group director of the Association.

Building and building material lines, under the chairmanship of E. B. Odenkirk, credit manager of the Medusa Portland Cement Company of Cleveland, along with the other industry groups, will meet Friday and Saturday, June 26 and 27. The Credit Congress of Industry, of which this group is a part, has grown out of the credit group sessions which have been held at each convention since they were successfully introduced in 1924.

The purposes of the credit groups, under the supervision of the National Association of Credit Men, are to reduce credit losses, to better credit technique and to improve the organization of credit departments," Balestier said.

"Among the functions of the credit group are the co-operative handling of embarrassed or insolvent estates, the concentration of claims in case of difficulty, the consolidation of ledger experience and the standardization of terms and discounts. Another important phase of credit group work is the exchange of information concerning both credit and sales conditions, thus giving each member important data on which to base his business activity in all sections of the country."

JAMES A. CURRIE, CONTRACTOR, DEAD

James A. Currie, 54, building contractor and a member of the firm of Currie & Dulgur of Bakersfield, died in a Bakersfield hospital last Wednesday following an extended illness.

Currie was born in San Francisco, and resided in Bakersfield for more than 20 years and was a prominent member of the Bakersfield B. P. O. E., No. 266, and F. O. E., Aerie No. 93.

Currie is survived by his mother, Mrs. R. Currie, who resides with a surviving brother, Robert Currie, both of Bakersfield, and a brother, Henry of San Francisco.

Stephens-Adamson Mfg. Co., Aurora, Ill., has published a 10-page illustrated booklet, describing conveyors, elevators, hoists and batching equipment for central proportioning and concrete-mixing plants. The book contains diagrams of typical plant arrangements and features a new automatic photoelectric cell control for increasing the accuracy and economy of concrete mixtures.

CONTRACTORS SECURE PASSAGE OF FOUR BILLS AFFECTING CRAFT

Of the 3200 bills, amendments and resolutions introduced in the 1931 Legislature of California, about 60 bills were of direct interest to the contractor because they would affect the business of general contractors. There were probably 100 or more bills in addition which indirectly affected the contractor or were of great interest to the general contractor.

At the time this progress report is made (May 18) the Legislature has just adjourned, and there are before the governor for his signature or veto about 1400 bills which were passed by the Legislature. This report, therefore, gives only legislative action, for the governor has 30 days within which to sign or pocket veto these bills.

Contractors' Bills

There were four bills introduced and passed by the general contractor, and all four have been passed by the Legislature. They are as follows:

1. Senate Bill No. 375—Provides for prequalification of bidders on all public construction by the awarding body of any political subdivision of the state, this is patterned after the bill which has been in use by the Department of Public Works of the state and permissive.

2. Senate Bill No. 732—Amends the present contractors' license law to make it more workable and to correct several features which were objectionable to both the contractor and the department.

3. Senate Bill No. 894—Amends the present eight-hour law so that penalties and fines for breaking the law cannot be taken out of progress payments unless and until the contractor shall have had a hearing before either the awarding body or the Department of Industrial Relations.

4. Assembly Bill No. 1867—To increase the fees of contractors from \$5 to \$10 per month for license, and providing that a portion of the fee shall be expended for disseminating information regarding the work of the department.

Engineers and Architects

There were 5 bills presented which affected engineers and architects, and all five were finally passed by the Legislature. Three of these bills were introduced by the engineers and architects themselves, and the other two were legislative enactments which were similar to those affecting several other boards and departments of the state government.

1. Assembly Bill No. 457—Making changes in the workability of the act, relating particularly to powers of the Board of Architectural Examiners.

2. Assembly Bill No. 615—Making it unlawful to use the title of "Structural Engineer" except by registered civil engineers who have passed the examination of the Registration Board for structural engineers.

3. Assembly Bill No. 616—Defines the term "civil engineer" and the phrase "responsible charge of work"; also provides suspension clause prohibiting advertising as a civil engineer unless registered, and makes more workable several features of the Engineers' Registration Law.

4. Assembly Bill No. 1514—Making changes in date of expiration of terms of members of the State Board of Architectural Examiners.

5. Assembly Bill No. 1516—Making changes in date of expiration of terms of members of Engineers' Registration Board.

A summary of legislation affecting contractors, architects and engineers, and other interests in construction, was presented to the Southern California Chapter, Associated General Contractors of America, last week by Melville Dozier, Jr., manager of the Chapter, who with Floyd O. Booe, assistant manager of the Southern California Chapter, A. G. C., represented that organization at Sacramento, working in conjunction with Mr. Dozier. Following is a summary of the report presented by Mr. Dozier.—Editor.

Labor Bills

There were thirty labor bills introduced in this Legislature which were of vital interest to the general contractor, and of these eight were passed by the Legislature and 22 failed of passage.

It was necessary for the general contractors to oppose practically all of these 30 bills, and the eight which were finally passed were amended before passage to conform with the requests of the general contractors. The 22 bills which were defeated were all opposed in committee by representatives of the general contractors.

Of the eight labor bills which were passed, the two most serious ones were the prevailing wage and the alien labor bills, and in view of the present public attitude towards alien labor and also in view of the recent action of Congress by passing the Bacon-Davis bill regarding prevailing wage, it was inevitable that these two bills would pass the Legislature in some form. To reduce as much as possible the opposition of the general contractors, these bills were amended several times in committee to include the amendments proposed by the general contractors which were intended to relieve as much as possible the rigid responsibilities placed upon the contractor.

The eight labor bills which finally passed both houses of the Legislature are as follows:

1. Senate Bill No. 26—Providing for the payment of prevailing wage on public construction. Among other amendments this bill contained a provision that prevailing wage in each craft and class must be determined beforehand by the awarding body and must be specifically named in the "call for bids."

2. Senate Bill No. 83 (alien labor bill)—The amendment to this bill made by the contractors eliminates the necessity for the contractor running an immigration bureau, and particularly provides that a hearing shall be held before any funds can be withheld from progress payments on account of infringement of the law. This same provision was also placed as an amendment in the prevailing wage bill and in the eight-hour bill, by representatives of the contractors.

3. Assembly Bill No. 450—Clarifies the law relating to the enforcement of the present law regulating the payment of wages and permits individual actions for wages and penalties.

4. Assembly Bill No. 451—Refers to the present act regulating the payment of wages, and provides for the payment of undisputed wage claims without condition within the time prescribed, leaving to the worker all remedies he may be entitled to under the act.

5. Assembly Bill No. 675—Requiring licensed contractors to report to the Registrar of Contractors the names of insurance carriers carrying workmen's compensation on their employees.

6. Assembly Bill No. 795—Repealing the present law fixing the minimum rate of compensation for labor on public work.

7. Assembly Bill No. 1059—Relating to the powers and duties of the Bureau of Labor Statistics.

8. Assembly Bill No. 1060—Relating to the scope of the acts in connection with the present law regarding payment of wages under the direction of the Bureau of Labor Statistics.

The following twenty-two labor bills were defeated:

1. Senate Bill No. 125—Defining and prohibiting trusts, monopolies and conspiracies against trade.

2. Senate Bill No. 333—Known during the past few legislative sessions as the "Spotter's bill," providing hearings before discharging employees by corporations employing special agents or detectives.

3. Senate Bill No. 401—Known as the anti-injunction bill—defining cases in which injunctions may and may not issue.

4. Senate Bill No. 534—Commonly known as the "Yellow Dog" bill. Prohibits contracts between employers and employees whereby either party undertakes not to join a labor union or employers' association during the life of the contract.

5. Assembly Bill No. 620—Regarding legal residents and prohibiting their employment.

6. Senate Bill No. 744—Relating to the employment of labor in mines and tunnel excavations.

7. Assembly Bill No. 2—Relating to alien labor on public construction.

8. Assembly Bill No. 51—Relating to alien labor on public construction.

9. Assembly Bill No. 77—Relating to providing unemployment insurance.

10. Assembly Bill No. 373—Relating to serious unemployment and providing for a board to draw upon surplus funds of the state for relieving unemployment conditions.

11. Assembly Bill No. 676—Amending the contractors' license law by requiring applicants to give the names of unpaid wage claimants, judgment creditors, compensation insurance carriers, etc.

12. Assembly Bill No. 810—Another anti-injunction bill.

13. Assembly Bill No. 1031—Providing for the establishment and enforcement of safety laws on construction work.

14. Assembly Bill No. 1045—Licensing of elevator constructors and installers.

15. Assembly Bill No. 1116—Another legal resident bill.

16. Assembly Bill No. 1206—Making it a misdemeanor for a contractor to place an order for labor for public construction work with a private employment agency.

17. Assembly Bill No. 1233—Relating to construction, repair and maintenance of public property.

18. Assembly Bill No. 1353—Relating to alien vagrants.

19. Assembly Bill No. 1368—Another alien labor bill.

20. Assembly Bill No. 1418—Relating to performing of collective bargaining agreements of labor unions and employers.

21. Assembly Bill No. 1419—Relating to injunctions.

22. Assembly Bill No. 1420—Another bill relating to injunctions.

Day Labor Bills

While there were several bills, mostly affecting irrigation and other districts, which have day labor provisions, there were two principal bills before the Legislature for amendments which in the past were amended by the contractors to include the provision providing for competitive contract system. In these two bills as amended by the 1931 Legislature, the day labor provisions were retained as requested by the general contractors. These two bills were as follows:

1. Senate Bill No. 89—Relating to the Los Angeles local control district.

2. Assembly Bill No. 183—Relating to the Metropolitan Water District.

Lien Laws

Several lien laws were introduced, but the four principal ones were introduced by the Material Dealers' Credit Association of Southern California. One of the four bills passed the Legislature, while the remaining three failed of passage. The bill which passed was as follows:

1. Assembly Bill No. 925—Relating to liens of mechanics and material men and making it lawful for the holder of any mortgage or other incumbrance to protect himself against failure of owner to perform his contract and pay his labor material bills.

The three lien laws which failed of passage were as follows:

1. Assembly Bill No. 934—Relating to actions for the enforcement of liens of mechanics and others upon real property.

2. Assembly Bill No. 936—Also relating to liens of mechanics and others on real property.

3. Assembly Bill No. 1104—Also relating to liens and providing that a surety bond must be required on every construction job, private as well as public.

Excavation and Underpinning

Two bills were introduced fixing the responsibility regarding excavation and underpinning, and both were objectionable. One bill was finally rewritten, however, to conform with the requests of the general contractors and was finally adopted. The other bill was killed in committee. The adopted bill was as follows:

Assembly Bill No. 775—Fixing a distance of 12 ft. above which the owner is responsible and below which the adjacent owner is responsible, if building below 12 ft.

The following bill was defeated:

Assembly Bill No. 469—Which related to the same subject, but was objectionable.

Assessment District Bills

Literally dozens of bills were introduced affecting assessment district acts, but only a few of them were serious to the general contractor. Four of these bills were finally passed, and four of them failed of passage.

One of the bills—Assembly Bill No. 218—was one of the most important bills before the Legislature, and was known as the "Debt Limitation" bill. This bill was finally amended by representatives of the general contractors.

Three other bills were introduced at the suggestion of the general contractors, to permit of development of assessment work in case Assembly Bill No. 218 should prove unconstitutional. These three bills were finally defeated.

Assembly bills passed were as follows:

1. Assembly Bill No. 218—Limiting the amount of special assessment to 50 per cent of the real value of the property, this arrangement to be made applicable to all existing assessments and to all future assessments. The ownership shall oppose assessment in excess of 50 per cent.

2. Assembly Bill No. 222—Amending the acquisition act of 1925 limit-

ing the amount of assessment, providing for majority protest, and relating to the manner of collections.

3. Assembly Bill No. 225—Amending the 1911 act relating to the method of payment for such work.

4. Assembly Bill No. 236—Amending the 1915 act along similar general lines.

The defeated assessment bills were as follows:

1. Assembly Bill No. 828—Making the boundary act of 1911 exempt from the special assessment investigation act of 1931, where demand for the employment of said act is not made by owners of 15 per cent of the area assessed, and regulating the procedure in the event that such request is made.

2. Assembly Bill No. 1414—Treating in similar manner the Street Act of 1889.

3. Assembly Bill No. 1478—Treating also in similar manner the Vrooman Act of 1885.

4. Assembly Bill No. 1904—Providing for preliminary investigations upon hearings of public improvements where the cost of such improvements is paid in whole or in part by special assessments, and providing for abandonment in case of majority protest. This was offered as a substitute for the "Debt Limitation" act.

Housing Act

The Housing Act was introduced late in the session, and provides for the building of certain wooden apartment houses in San Francisco, but it was defeated finally through pressure brought by the Immigration and Housing Commission and the general contractors. It was Assembly Bill No. 1371.

Morin Bill

The Morin bill, prepared by Attorney Morin of Pasadena, was again introduced, and provided for the recording of the condition of title and arrangements for financing of proposed construction or improvements on real property. This bill again failed to be passed out of committee. Senate Bill No. 376.

Motor Vehicles and Trailers

Four bills were introduced regarding motor vehicles and trailers which affected the general contractor or his equipment. All were defeated, and were as follows:

1. Senate Bill No. 546—Relating to registration fees to be paid upon trailers and semi-trailers.

2. Senate Bill No. 598—Also relating to registration fees upon vehicles and trailers.

3. Assembly Bill No. 1188—Providing for certain taxes upon trailers and semi-trailers in addition to registration fees.

4. Assembly Bill No. 1668—Prohibiting certain uses of trailers or semi-trailers.

ELECTRICAL WORKERS REJECT WAGE INCREASE

Six hundred members of the electrical workers' union of Chicago, last Wednesday turned down a wage increase of 25 per cent, saying that "economic conditions will improve more rapidly if union labor does not ask for wage increases." The workers, members of local 134 employed by the Illinois Bell Telephone Company, voted against a wage increase of 25 per cent as provided in the union contract. They urged union labor to adhere to a policy of demanding no raises, and accepting no cuts.

Bulletins describing the contractors' special elevating grader with 42-in. carrier and the model 37 road grader have been issued by the Austin-Western Road Machinery Co., 400 North Michigan Ave., Chicago, Ill.

DONOVAN EXONERATED BY ARCHITECTS' BOARD

Charges of unethical practice, brought against John J. Donovan, Oakland architect and a member of the state board of architectural examiners, by Fred Farris, Oakland contractor, were dismissed as groundless and Donovan "entirely exonerated."

President John Albert Evers of the state board said every angle of Farris' charge was gone into thoroughly and that it was found his allegations were wholly groundless. Donovan did not sit with the board.

Farris charged Donovan incorporated in specifications for public schools and private work the use of windows patented by Donovan and introduced letters in support of his charge.

Evers said the letters not only failed to support the charge, but brought inadvertently in the testimony that Farris represented and was interested in a firm manufacturing windows in competition with Donovan. It also was shown, Evers said, that in every instance Donovan left to his client what kind of windows to use.

Donovan has constructed buildings at Eureka, Santa Cruz, San Jose and other cities.

An official report on the findings is to be issued later by the board.

"PREVAILING WAGE" DEFINED BY LABORITE

In reply to the question submitted him by the secretary of one of the California Building Trades Councils, as to what is meant by the term "Prevailing Rate of Wages," Secretary-Treasurer William Spencer of the Building Trades Department of the American Federation of Labor made the following answer:

"Answering your favor of the 24th instant, beg leave to advise that the prevailing rate of wages is that paid to workers of the building industry on construction projects of a similar character in the several communities.

"For example, if a post office or a Federal building of any description is to be erected, construction of a like character, that is to say in point of magnitude and cost, forms the basis upon which the prevailing rate is obtained, or the commonly accepted rate paid by the employers to the different workmen in the building industry by agreement existing between employers and employee in which the regular wages are fixed, then that rate promptly becomes the prevailing wage.

"Under these circumstances there is little danger of your already established wage scale being impaired."

U. S. BUILDING UP SIX PER CENT

Based on reports from 340 cities having a population of 25,000 or over, the U. S. Bureau of Labor Statistics yesterday announced an increase of 6.2 per cent in the amount of building permits during April as compared with March.

There was an increase of 19.5 per cent in the estimated cost of new residential buildings, but a decrease of 3.3 per cent in the estimated cost of new non-residential buildings.

The estimated cost of the total building operations totaled \$161,709,271. The new buildings provided for 14,271 family dwelling units. This is an increase of 21 per cent as compared with March. More family dwelling units were provided during April last than for any month during 1930.

THE OBSERVER

What He Hears and Sees on His Rounds

Governor Rolph last Monday signed a series of labor bills including the measure assuring workmen the generally prevailing scale of wages on all public projects. Another in the approved series provides that, except in cases of emergency, only American citizens shall be employed in public works contracts. Appreciation of organized labor was expressed to the Governor by Frank McDonald and John O'Connell, San Francisco labor leaders.

Solution of the present crisis will be found in the "six hour day or the five day week, or both," David B. Robertson, president of the Brotherhood of Locomotive Firemen and Enginemen told members of the Brotherhood of Railroad Trainmen in convention at Houston, Texas, last Monday.

"This solution, of course, is founded on the maintenance of the present wage scale and no reduction in wages," Mr. Robertson said.

There are in the United States 12 international labor organizations which have a system of old-age pensions. Data supplied to the Bureau of Labor Statistics by 11 of these show that they had 13,669 pensioners in 1930 and paid in pensions during the year the sum of \$5,403,180. Of this amount more than one-third was paid by one organization—the International Typographical Union. During the 4-year period, 1927 to 1930, the number of persons cared for through the medium of old-age benefits by these organizations rose from 8,839 to 12,049, while the amount of benefits rose from \$2,362,476 to \$3,403,180, or 44 per cent.

Secretary Doak characterized as "very sound" the statement against wage cutting by James A. Farrell, president of the United States Steel Corporation.

Farrell, before a group of manufacturers in New York last week, called wage cutting "a pretty cheap sort of business."

"The statement by Mr. Farrell," said the secretary, "was very sound and came at a very opportune time."

"Many employers are maintaining wage rates throughout the country. This is very commendable."

"The Farrell statement was a proper one and came at a time when the matter was being thoroughly discussed and fitted in."

An amendment to the building ordinance to establish a standard concrete mix for construction in Sacramento, proposed by Thomas Scollan, city councilman and building material dealer, of Sacramento, has been adopted by the council.

The amended ordinance sets a generously low minimum of 1500 pounds as the test strength of all concrete construction.

Scollan points out the existing ordinance and says there shall be a standard but specifies none. His amendment is designed to protect home buyers and others from contractors who "cheat" by using weak concrete mixes. Scollan declares this practice is too widespread in Sacramento.

Officials of the Golden Gate Bridge and Highway District have rejected the proposal of the Loveland-Blyleshy interests to construct the Golden

Gate Bridge. The Loveland-Blyleshy Company offered to buy the \$35,000,000 bridge bonds at par and to build the bridge complete within that figure. The building committee of the directors recommended rejection of the offer on the grounds that the district could probably save millions by letting the contractors directly.

J. R. Shaw, president of the Shaw-Bertram Lumber Co., of Klamath Falls, Ore., announces the purchase of about 24,000 acres of timber from the Pickering Lumber Company. The tract, located 50 miles southwest of Klamath Falls on the Great Northern Railroad's extension into California, contains approximately 3,000,000,000 ft. of pine lumber. It will be held as a future lumber supply for the company's mill, Shaw said.

Building contracts for the first half of May show a slightly larger than normal seasonal decline. As reported by F. W. Dodge Corp., the average for the first thirteen business days of the month was \$2,953,600 for the first half of April. The drop for the first half of May was 7.3 per cent from the April average, compared with a usual seasonal decline of 4.9 per cent.

A resolution definitely supporting the present 4-L wage scale based on \$3 a day and up for unskilled labor, in opposition to any wage cutting, was adopted last week by the directors of the Loyal Legion of Loggers and Lumbermen at the 25th semi-annual meeting in Portland, Ore. Twelve employes and 12 employers are members of the board of directors, the governing body of the organization. In his address to the board W. C. Ruenzli, 4-L president, scored those lumber operators who are paying what he termed "poverty wages."

At a meeting of executives, secretaries and members of the Associated General Contractors of America in Washington May 8-9 in a session devoted largely to discussions of co-operation with other elements of the construction field and to selling construction service, O. W. Rosenthal, president of the National Association of Building Trades Employers, outlined the plan for construction investment trusts. The plan is to issue shares in the investment trusts, the shares representing certificates of interest in thousands of buildings. Control of construction from within would be the result, and longer amortization of building loans, much needed, would follow. He declared the public trust would make the shares a sound investment entitled to the protection of a sound investment trust and that the wide diversification of types of construction represented by the investment investment.

Col. W. A. Starrett, vice-president of the Associated General Contractors of America, hedges construction not to sell itself short. This is what is done when general contractors submit bids containing prices of sub-trades below the figures submitted by sub-contractors, depending upon beating down the subs to the expected price after the contract is secured. He says the general contractors are fooling themselves only, the sub-contractors submitting first figures high enough to

allow for reduction upon later demand.

Bureau of Census figures on average prices of lumber paid by contractors delivered on the job as of April 1 at Los Angeles were: No. 2131E, Douglas fir, 2x4-16, \$31.50 per M; No. 1 common boards, 1x6, \$30.50; Douglas fir, No. 7 v g flooring, 1x4-10 to 16, \$54.50; red cedar shingles \$4.40.

An investigation is under way by the Federal Trade Commission to determine whether there have been any price fixing agreements or illegal combinations among manufacturers and salesmen of material used in government buildings.

Beginning of development of a future source of steel is announced by the University of Minnesota. This source is an estimated billion tons of low grade ores in the Meabe range, which is yielding already the richest store of the nation's high grade ores. The amount of low grade ore will be measured and mapped and its types classified. Some of these ores are magnetite requiring magnetic separation, some can be brought to higher grade simply by washing, others require crushing or roasting, while some depart in different ways from present shipping standards.

New orders for 689 steel boilers were placed in April, 1931, according to reports submitted to the Bureau of the Census by 73 manufacturers, comprising most of the leading establishments in the industry, as compared with 630 boilers in March, 1931, and 1017 boilers in April, 1930.

The Nevada State Highway Department, working in conjunction with the United States Bureau of Public Road, expects to have approximately \$2,600,000 in road projects under way by July 31. This figure includes twenty-two projects begun since the first of the year and three hold-over projects from last year. The program is being financed by Nevada's \$1,043,000 share of the emergency advance fund appropriated by the last congress as a relief measure and from the state's regularly allocated federal aid fund and the state highway fund.

California Portland Cement Company has filed a complaint with the State Railroad Commission against The Atchison, Topeka and Santa Fe Railway Company, Los Angeles & Salt Lake Railroad Company, Pacific Electric Railway Company, and Southern Pacific Company, alleging that defendant carriers collected excessive rates for the transportation of numerous carload shipments of petroleum residuums from points of origin in Los Angeles County to the complainant's plant at Colton, San Bernardino County, and asking the Commission to award reparation to complainant in the amount such charges exceeded the rate found reasonable by the Commission.

Mt. Shasta Pile Mfg. Co. has filed a complaint with the State Railroad Commission against Southern Pacific Railroad Company, alleging that defendant carrier collected the rate of \$18.50 per car for the transportation of 26 carloads of logs from Fenover Spur on the Black Butte-Klamath Falls line of defendant to Barnard, one mile south of the town of Mt. Shasta. Complainant asks the Commission to order defendant to refund the sum of \$4.00 per carload on account of alleged overcharges.

ALONG THE LINE

Walter W. Cooper, who recently completed his contract as rate expert for the East Bay cities and other California municipalities, has assumed his position as supervisor of rate proceedings for the Railroad Commission, with the title of Director of Research. Cooper will have charge generally of the preparation of cases before the Commission and will maintain a constant check on rate structures and earning conditions of the utilities.

San Jose city council has authorized the employment of Harland Bartholomew of St. Louis, city planning expert, to map a civic center for that community.

Walter Altevogt, contractor who attempted suicide in San Jose several days ago, is reported to be on the road to recovery. Previous to going to San Jose, Altevogt operated as a general contractor in Martinez.

Appointment of Eric Cullenward, former San Francisco and Los Angeles newspaperman, as secretary of the State Highway Commission, is announced today by the State Department of Public Works. Cullenward succeeds George Mansfield, who resigned after having been secretary for several years. Fred Seymour of Sacramento was appointed superintendent of prison camps, effective June 1.

Prof. A. H. Hoffman of the Agricultural Engineering Division, College of Agriculture, Davis, Calif., died in a Sacramento hospital last Tuesday, after an illness of two weeks. He was 57 years old.

Allen H. Stem of St. Paul, 75, nationally known architect and designer of the \$20,000,000 Grand Central Terminal in New York City, died in that city last Tuesday after a three-week illness.

Captain H. B. Nurse, construction engineer in charge of the Federal bombing base to be constructed in Marin Meadows, near San Rafael, has leased quarters in the Star Theatre Building, San Rafael, and with the completion of remodeling will establish his office quarters.

Chas. Butler, architect, formerly maintaining headquarters in Fresno, has moved his offices to the Glikberg Bldg., Gabilan and Main Sts., Salinas. Butler's Salinas office was formerly handled by the late William Stranahan, engineer.

A new edition of the "Handbook of Concrete Construction" has been issued by the Universal Atlas Cement Co., 208 S La Salle St., Chicago, Ill. This pocket-size volume contains 268 pages and many illustrations. It is written from a practical rather than a technical standpoint to provide, in convenient form, useful information in both plain and reinforced concrete. The list price is \$1 per copy.

Railings, fences and special construction using pipe and fittings as the essential construction material are described in a 76-page illustrated catalog issued by the Vulcan Ray & Construction Co., Manspeth, N. Y. Detailed drawings and photographs show a large number of unusual jobs carried out by the company in various parts of the country.

HERE—THERE
EVERYWHERE

California highway work provided employment for 7857 men during April, according to information compiled by President Hoover's committee on employment, accessible to news dispatches from Washington, D. C. During April contracts for constructing 91 miles of highway at a cost of \$3,736,982 were awarded, the committee revealed. Included in this program, it was announced, were 14 federal aid projects, the cost of which aggregates \$1,666,698.

Awards of contracts totaling \$155,020,594 for public and semi-public construction projects broke all records last week, it is announced by the President's emergency employment committee. This brings the total amount of contracts for this kind of work reported since December 1 to \$159,693,507.

Records of the Construction Section of the Census of Distribution show that 1,194 contractors in Virginia have filed reports for construction business done in 1929. Of this number 357 contractors each reported construction work of \$25,000 or more. The number of contractors reporting a year's business of less than \$25,000 was 857. Of this number, 717 classified themselves as to the type of work handled, while 146 failed to do so. An analysis of the reports of these 717 contractors reveals that 251 reported themselves as general contractors. The general contractors classified as to types of work handled show 212 engaged in building construction, 24 as highway and street contractors, and 5 miscellaneous. Sub-contractors whose report showed their year's business as less than \$25,000 numbered 466.

Edward D. Boyer, technical service manager of the New York office of the Universal Atlas Cement Co., has announced his retirement from active business. Mr. Boyer joined the Atlas organization in 1902. He is a director and former president of the American Concrete Institute and a past-director of the American Society for Testing Materials, and has been for many years a member of the Portland Cement Association's technical problems committee.

Builders' Service Co., of Mountain View, has filed articles of incorporation. The company will deal in building materials and supplies of all kinds and will issue 15,000 shares of stock of par value of \$100 per share. The directors, each of whom hold one share of the stock, are: J. E. Carter of Palo Alto, August Lande of Sunnyvale, J. J. McChesters, Alvin Olson and E. D. Minton, all of Mountain View.

Two hundred and fifty building trades workmen who walked out in Houston, Texas, on May 1 because of an attempt to cut their wages \$2 a day, agreed to go back to work under a compromise agreement for a \$1 reduction.

Bulletin 71-J of the Sullivan Machinery Co., 400 North Michigan Ave., Chicago, Ill., treats of air-made wells and Sullivan air-lift pumping. This method combines the special well-construction engineering of the Air-Made Well Co. of Kansas City, with Sullivan air-lift equipment and methods. It has proved successful in many cases in developing a water supply from shallow sand and gravel strata.

ENGINEERING SOCIETIES
EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 67 Post Street, San Francisco. (Phone SUinter 1684).

R-3570-S SALES ENGINEER, preferably young, B. E. graduate with sales personality and some experience, either in sales or operations, to sell induction motors. Personal interview in San Francisco required. Salary and expenses.

R-3571-S SALESMAN, preferably single and experienced in the motor business, to sell a line of motors, pulleys, transformers, etc. Compensation on commission basis only. Territory, Northern California. Headquarters, San Francisco.

R-3568-S MECHANICAL ENGINEER, experienced in the production of heavy machinery, to design and detail a portable rock crusher. Opportunity for the right man to take financial interest and full charge of engineering of a new company. A \$1000 investment required. Location, San Francisco.

R-3566-S MASTER MECHANIC AND PRODUCTION SUPERINTENDENT with can factory experience will be needed for new plant. Men with this experience please apply, stating age, employment record and salary required. Location, California.

R-3572-S ENGINEER, over 40 years of age, with general construction experience, for special work in connection with a trade paper. Must be adaptable and willing to start for moderate salary. Permanent opportunity. Location, San Francisco.

W-2370 CIVIL ENGINEER for research work on cement. Apply only by letter. Location, New York State.

CEMENT OUTPUT IS
LOW, REPORTS SHOW

The ratio of operations to capacity of American Portland cement mills continues to show a decline as indicated by the figures for the twelve months ending April 30. According to statistical releases by the Bureau of Mines of the Department of Commerce, the ratio of operations to capacity for the last twelve months was 57.7 per cent. The ratio percentage for the twelve months ending April 30, 1930, was 60.0 per cent and for twelve months ending April 30, 1929, was 71.1 per cent.

During the month 11,245,000 barrels were produced, 11,184,000 barrels were shipped, and stocks on hand at the end of the month were 29,736,000 barrels. Production in April, 1931, was 16.8 per cent less and shipments 16.2 per cent less than in April, 1930. Stock at the mills were 3.7 per cent less than a year ago.

ENGINEER HONOR
SOCIETY ELECTS

Election of officers to the University of California Chapter of the Tau Beta Pi, national engineering honor society, was held at the last regular meeting of the organization on the Berkeley campus recently. The newly elected officers will serve for the school year 1931-32.

Those elected are: President, I. Morgan White, Oakland; vice-president, Louis R. Goldsmith, San Diego; treasurer, Wesley F. Getts, San Francisco; corresponding secretary, Henry C. Kruger, San Francisco; recording secretary, Raymond E. Gauthier, San Francisco; and cataloguer, Irwin T. Wetzel, San Francisco.

GOVERNOR SIGNS BILLS FOR S. F. BAY BRIDGE PROJECT

Impressive Ceremonies Mark Signing of Measures—Eighty Local Draftsmen Will be Employed at San Francisco Headquarters in Connection With \$75,000,000 Project—State Highway Engineer Purcell Hopes to Complete Engineering Details Within Twelve Months

With approval of three bills, Governor Rolph last Monday paved the way for immediate action on the San Francisco Bay bridge project.

Impressive ceremonies, participated in by large delegations from San Francisco and Alameda Counties, marked the signing of the measures.

"This day will long be remembered by San Francisco and all California," said Governor Rolph. "We are approving the final legislation necessary for construction of the \$75,000,000 bay bridge. It is an epochal event, for this vast project is everybody's bridge, and all Californians united in work-

ing from the West, with a few outstanding key men in bridge construction work imported from the East. He indicated a staff of from sixty to eighty draughtsmen will shortly be working at headquarters to be secured in San Francisco.

Governor Rolph paid a special tribute to United States Senator Hiram W. Johnson, Congressman Florence P. Kahn and other members of the California delegation in Congress for obtaining Federal approval of the bridge. State Finance Director Roland A. Vandegrift and Col. Walter E. Garrison, State Director of Public Works, expressed satisfaction with the present fiscal and engineering arrangements.



C. H. PURCELL,
State Highway Engineer

ing for its speedy realization."

The first of the three bills advances \$750,000 in State funds for immediate preliminary engineering work. This advance will be returned to the State general fund after the first sale of revenue bonds to finance actual bridge construction.

The second measure clarifies details of the toll bridge authority act of 1929 under which revenue bonds are to be issued for the bay bridge. This bill is designed primarily to increase marketability of the bonds.

The last of the bills provides that the State Department of Public Works may take over the bay bridge as part of the State highway system for the purpose of maintenance.

State Highway Engineer C. H. Purcell said it is hoped all preliminary engineering work can be completed within the next twelve months.

Immediate attention also is to be given to questions of bridge approaches and kindred problems, both in San Francisco and the East Bay district.

For the first time on a project of this magnitude, Purcell said, designing draughtsmen will be recruited

MORE SCENERY DUE TO BE UNCOVERED

Maintenance crews of the Southern Pacific Company have been instructed to co-operate with State and County highway crews in removing signs erected along the right-of-way. F. L. Burckhalter, General Manager of the Southern Pacific Company yesterday informed A. Emory Wishon, Chairman of the Statewide Highway Committee of the California State Chamber of Commerce.

Under Wishon's leadership, there is a two weeks campaign now on, concluding May which tend to tear down all signs illegally placed on property adjacent to highways. It is estimated that 50,000 signs will be removed as the result of this campaign.

"We believe the undertaking to clean up signs along the highways of California which tend to obstruct scenery, is a splendid piece of work on the part of the State Chamber of Commerce," stated Burckhalter. "Many miles of our rails parallel highways and we will gladly join in the movement. We feel this house cleaning will add to the enjoyment of travelers in general."

BANKRUPT METAL FIRM LISTS ASSETS

The San Francisco Iron and Metal Company, which recently filed its petition in bankruptcy, yesterday filed its schedule listing liabilities of \$256,533 and assets amounting to \$516,422.

The liabilities, the schedule reveals, consist chiefly of unsecured claims which amount to \$252,533. Of the assets, \$485,222 consists of unliquidated claims. These include a note for \$148,557 held by Harry Silberman, Sr., former president of the company, and one for \$53,315 held by E. Silberman.

The concern formerly figured in charges of income tax evasion during the war period and now has a suit for damages pending against John P. McLaughlin, collector of internal revenue, for alleged unjustified seizure of the company's assets by McLaughlin. The tax claims were settled in Washington.

A.G.C. AIMS TO AMEND DAVIS-BACON FEDERAL WAGE BILL

Eighty executives, secretaries and members of the Associated General Contractors of America met in Washington May 8 and 9 in a session devoted largely to discussions of co-operation with other elements of the construction field and to selling construction service.

The recently enacted Davis-Bacon bill, requiring payment of prevailing wages on federal building work, brought forth considerable comment and discussion. Two amendments to the bill proposed by the A.G.C., the one to be pushed to be decided upon by a committee. One of the amendments would have the prevailing wages stated in the specifications or in the call for bids; the other would do this and in addition provide for protection of the contractor in case wages went up during the life of the contract, the government assuming the extra cost of labor and, likewise, the government would receive the benefit if wages dropped in a similar period. It was pointed out that the Davis-Bacon bill has already been interpreted to apply not only to the contractor's forces but to all employees of firms furnishing or making materials entering into the work. It was also revealed that at present the bill carries no penalty.

Bulletin No. 227 of the Engineering Experiment Station of the University of Illinois contains the report of an investigation to determine the effect of various gases present in the furnace during the smelting of dry process enamels for cast iron. In the investigation these dry process enamels were subjected to the following smelter atmospheres; sulphur dioxide, sulphur dioxide and reducing conditions. The effect of these atmospheres on the quality of the enamel after it had been burned on cast iron test pieces was determined.

From the results obtained it was found that composition played an important part in the resistance of dry process enamels for cast iron to the effect of reducing smelter atmospheres and reducing smelter atmospheres with sulphur dioxide present. The high-lead enamels were less resistant to reducing conditions and reducing conditions with sulphur dioxide present than the low-lead enamels tested. It should be possible to develop leadless enamels that would be resistant to any reducing conditions found in plant smelting practice. Tin oxide was less readily reduced than antimony oxide. Careful quenching and washing removed the sulphate formed by smelting in the presence of high percentages of sulphur dioxide, and no scumming or sulphur pock marks resulted from that source. Since, in the investigation, only gases in high concentrations caused defects to appear, it is probable that many of the black specks encountered in commercial smelting are due to carbon or other foreign materials being trapped in the enamel.

Copies of Bulletin No. 227 may be obtained without charge by addressing the Engineering Experiment Station, Urbana, Illinois.

The difficulties attendant upon the completion of the Sydney, Australia, harbor bridge appear to be typical of a project on which an attempt is being made to save the general contractor's profit, says The Constructor, A. G. C. publication. Unforeseen costs arising in connection with the construction of the bridge have strained the finances of New South Wales considerably, it is reported. Originally, the bridge, including approaches, was estimated to cost \$28,000,000, but so far it has cost \$34,000,000 and the latest estimate for its completion is \$44,000,000. The bridge should be open for traffic late in 1931.

LOWER RENTS, FEWER RENTERS, HIGHER TAXES HIT REAL ESTATE

"The building industry is not likely to repeat its 1921 feat of leading business out of the valley," says The Business Week. "Its sister, real estate, must in fact be listed among the factors that are retarding recovery."

Continuing, Business Week says: "Real estate is a local business. There are towns and cities where conditions are good today, and there are neighborhoods that are doing well in cities that are flat. Any generalizations must make allowance for these exceptions. But speaking by and large, rental incomes from both business and residential property throughout the country are shrinking, and vacancies are rising.

Estimates of vacant space run from 3% to 25% according to locality. One careful estimate puts the decrease in rents at 5%. Taxes, on the other hand, tend to increase.

Because individual incidents attract only local attention the extent of foreclosures, both for mortgage defaults and tax delinquencies, has not been generally reported.

Mortgage-holders have taken over a great number of large buildings, most conspicuous, perhaps, the hotel and apartment-hotel type, put up in boom enthusiasm.

Tax foreclosures have been grave features of the situation. Several states have been, or are, considering measures of relief by postponing due dates of taxes, but are hampered by their own financial difficulties.

A vicious circle results as forced selling in a depressed market further depresses that market, bringing more forced selling.

The crisis, at least in many regions

does not appear to have been reached yet, acute as are present conditions. Several observers are inclined to expect it some time this summer or in the fall.

The situation has had serious repercussions on real estate credit. Large numbers of mortgage bonds have defaulted, many mortgages are unpaid. Banks with loans on real estate naturally have suffered; such loans explain many of the smaller bank failures. Insurance companies, savings banks, and building and loan associations have all been hit. Due to tax collection difficulties, more municipal securities are already in default than ever before, and many more are now very close to the edge.

This condition in the real estate field very largely moves the interest in and demand for new construction, and accounts for the current low level of building.

Almost no mortgage securities have been brought out this year. Other lending agencies are making loans at a much lower appraised basis than in the last year or two. Mortgage rates have declined but little, while second mortgage money is, at the present time, scarcely obtainable.

It is often said that large amounts of idle money are available for real estate financing. This is true enough. But it is available only for the highest grade properties, and up to a most conservative percentage of an ultra-conservative appraisal. For these gilt-edged mortgages, there is a lively demand. But the terms imposed obviously bar the big speculative builders who have been in the habit of going ahead on a 20% or 25% equity.

STANDARD CONCRETE MIX ORDINANCE APPROVED BY SACRAMENTO CITY COUNCIL

An ordinance amending sections 2604 and 2704 of Ordinance No. 316 Fourth Series, passed January 13, 1927, and entitled: "An Ordinance Regulating the Erection, Construction, Enlargement, Alteration, Repair, Moving, Removal, Demolition Conversion, Occupancy of Buildings or Structures in the City of Sacramento, Providing for the Issuance of Permits and Collection of Fees Therefor, Providing Penalties for the Violation Thereof, and Repealing Ordinance No. 389, Third Series, Passed June 17, 1919, Ordinance No. 12, Fourth Series, Passed September 8, 1921, Ordinance No. 122, Fourth Series, Passed July 26, 1923, Section 8 of Ordinance No. 117, Fourth Series, Passed April 9, 1923, Ordinance No. 648 Old Series, Passed April 11, 1904, Ordinance No. 256 Old Series, Passed April 14, 1890, and All Other Ordinances, or Parts of Ordinances, in Conflict Herewith."

BE IT ENACTED BY THE COUNCIL OF THE CITY OF SACRAMENTO: SECTION 1. Section 2604 of Ordinance No. 316, Fourth Series, passed January 13, 1927, is hereby amended to read as follows:

Section 2604. Monolithic concrete construction containing not more than two-teenths (2-10) of one (1) per cent of reinforcement shall be classed as plain concrete.

Materials for bearing walls and piers of plain concrete shall be mixed in proportions of one (1) part of Portland cement to one more than three (3) parts of sand and five (5) parts of coarse aggregate, by volume, or a mixture of fine and coarse aggregates giving an equivalent strength and density.

Coarse aggregate shall consist of crushed stone, washed gravel, or crushed slag, eighty-five (85) per cent of which is retained in a No. 4 screen, and shall be graded in size from small to large particles. The particles shall be clean, hard, durable, and free from deleterious materials.

Cement for plain concrete shall conform to the requirements of the Standard Specifications and Tests for Portland Cement of the American Society for Testing Materials (Serial Designation C9-21).

Fine aggregate shall consist of washed sand, washed stone screenings or other similar inert materials, or combination thereof, having clean, hard, durable uncoated grains and free from injurious amounts of dust, lumps, soft or flaky particles, shale, organic matter, loam, or other deleterious substances; and shall range from fine to coarse. Not less than ninety-five (95) per cent shall pass a No. 4 sieve, and not more than thirty (30) per cent shall pass a No. 10 sieve, and according to current standard practice prescribed by the American Society for Testing Materials.

One of three mortar briquettes made from the washed sand should develop the same strength at 28 days as one to three mortar briquettes made from Ottawa sand at the same time, and the mortar in both sets of briquettes is of the same consistency and cured under like conditions.

Concrete Mix, viz. washed sand and washed gravel, prepared before delivery, shall be composed of fine aggregate which shall conform to the specification for fine aggregate under paragraph 5 of this section and coarse aggregate which shall conform to the

specification for coarse aggregate under paragraph 3 of this section; the fine and the coarse aggregate to be mixed in such proportion that 60% of the ultimate dry mix shall be coarse aggregate.

The strength of monolithic concrete (or "concrete mix" is used as the aggregate shall be not less than 1500 pounds per square inch at the age of 28 days. The proportion of "concrete mix" to cement, by volume, shall be not more than six parts of concrete mix to one part of cement.

SECTION 2. Section 2704 of Ordinance No. 316, Fourth Series, passed January 13, 1927, is hereby amended to read as follows:

Section 2704. (a) Portland Cement. Portland cement shall conform to the Standard Specifications and Tests of Portland Cement (Serial Designation C9-21) of the American Society for Testing Materials.

(b) Concrete Aggregates. Concrete aggregates shall consist of washed sand, washed gravels, crushed rock, air-cooled blast-furnace slag, or other inert materials having clean, strong, durable, uncoated particles and shall meet the approval of the Building Inspector. Aggregates containing soft, friable, thin, flaky, elongated or laminated particles (totaling more than three (3) per cent by weight) containing shale in excess of one and one-half (1½) per cent, or silt and standard sieve in excess of two (2) crusher dust finer than the No. 100 per cent shall not be used. The percentages shall be based on the weight of the combined aggregate as used in the concrete. When all three groups of these injurious materials are present in the aggregates, the combined amounts shall not exceed 5 per cent by weight, of the combined aggregate. Aggregates shall not contain strong alkali, or organic material which gives a color darker than the standard color when tested in accordance with the standard colorimetric test of the American Society for Testing Materials.

The maximum size of the aggregates shall be not larger than one-fifth (1-5) of the narrowest dimension between forms of the member for which the concrete is to be used, nor larger than three-fourths (¾) of the minimum clear spacing between reinforcing bars, or between bars and forms. Maximum size of aggregate is defined as the clear space between the sides of the smallest square opening thru which ninety-five (95) per cent, by weight, or the material can be passed.

(c) Water. Water used in mixing concrete shall be clean and free from injurious amounts of oil, acid, alkali, organic matter or other harmful substances.

(d) Metal Reinforcement. Metal reinforcement shall conform to the requirements of the Standard Specifications for Billet-Steel Concrete Reinforcement Bars of structural or intermediate grade (Serial Designation A15 14) of the American Society for Testing Materials. Hard grade billet-steel meeting the requirements of the above specification (A15-14) requirements of the Standard Specifications of the American Society for Testing Materials, may be used for bars three-fourth (¾) inch in size and smaller, or for larger sizes where no bending is required. The provision in the above mentioned specifications for machining deformed bars before testing shall be eliminated.

Metal reinforcement, to receive the rating of "deformed bars" which permits the use of higher bond stresses than for plain bars, shall show a bond strength twenty-five (25) per cent greater than that shown by plain bars of equivalent cross-sectional area.

(e) Storage of Materials. Cement and aggregates shall be stored at the

work in a manner to prevent deterioration or the intrusion of foreign matter. Any material which has been damaged shall be immediately and completely removed from the work.

Passed: May 14, 1931.

Effective: June 13, 1931.

C. H. S. BILWELL, Mayor.

Attest: H. G. Denton, City Clerk.

WESTERN FEDERAL PROJECT PROGRAMMED

President Hoover announces that the estimated cost of new construction approved by the federal board of hospitalization will total \$17,757,000.

New construction approved some time ago and now under contract amounts to \$7,092,152.37.

The projects for which contracts have not been let but which have been approved by the board of hospitalization included:

Salt Lake City \$400,000; Helena, Mont. \$330,000; Walla Walla, Wash., \$105,000; Wichita, Kan., \$750,000; Los Angeles, \$550,000; Lincoln, Neb., \$110,000; Oregon (site not selected), \$1,000,000; American Lake, Wash., \$300,000; Boise, Idaho, \$250,000; Albuquerque, N. M., \$1,250,000; Leavenworth, Kan., \$1,500,000.

Projects have been approved and now are under contract at American Lake, Wash., Tucson, Ariz., Waco, Texas, among other cities.

The estimates include all manner of building activities, ranging from refrigeration and tile floors to new buildings.

BUILDING PERMITS DECREASE IN L. A.

During the first 20 days of May, 1931, the Los Angeles city building department issued 1516 permits with an estimated valuation of \$2,039,256. For the corresponding period in May a year ago the number of permits issued was 1860 and the estimated valuation \$4,750,059, while for the first 20 days of April, 1931, the number of permits issued was 1590 and the estimated valuation was \$2,310,981.

Los Angeles' building total for the current year up to and including May 20 was \$17,186,278 as compared with \$13,835,872 for the corresponding period last year.

ENGINEER LEAVES \$175,000 TO U. C.

A scholarship for girls and a professorship of United States history will be established through a fund of \$175,000 bequeathed the University of California by the late James Wm. Byrne, according to announcement by President Robert Gordon Sproul.

Byrne, a member of the class of 1883 was a civil engineer. He died in March 1920.

Under terms of the bequest, \$25,000 is to be used for scholarships. The remaining \$150,000 is to be used for the establishment of the Margaret Byrne Professorship of American History.

STATE PLUMBERS ELECT OFFICERS

Jack V. Young of San Francisco, was elected president of the State Association of Merchant Plumbers at the closing session of the 30th annual convention in San Diego, last Thursday.

Other officers elected are: Jack Spear, Santa Barbara, vice president; Jack Hawley, Sacramento, re-elected treasurer, and Frank C. Schilling, Jr., Los Angeles; R. W. Timmins, Richmond, and R. L. Walters, Bakersfield, executive board members.

Selection of the 1932 convention city will be made later.

LUMBER TO CANCEL 5-YEAR PLAN WITH TEN BIG SALES CAMPAIGNS

Indicative of what an aggressive trade association can do for, and of the support it can get from, its industry, even during a depression, is the record of the National Lumber Manufacturers' Association. Not satisfied with the successful completion this year of a 5-year promotion campaign during which \$1,000,000 has been spent annually to push the sale of lumber against competitive products, the association proposes to extend its activities, to increase its annual expenditures 50%. It has a complete campaign prepared to promote the use of lumber wherever possible.

The purpose of the association, as stated by its able manager, Dr. Wilson Compton, is "to enable sharply competing regions and groups to work in the same harness toward objectives of mutual interest; and to give to the lumber industry, as far as practicable, a united front in its resistance to encroachments of 'substitute' materials."

Except in the instances where "exaggerated individualism prefers independence to profits" this plan has been successful inter-industry warfare over the rival claims of various kinds of lumber produced from different regions has been diminished, and the industry is concentrating its efforts to fight cement, steel, and other competitors.

The ultimate aim of the association, as indicated by Dr. Compton, is in obtaining mutual agreement among the regional associations which make up the national body as to the several species and grades of lumber suitable for particular uses, to concentrate the promotional activities of the national

body behind these uses, to restrain competitive regional associations from negative public criticism of the suitability of any species thus agreed upon. To complete this program national grade-marked standards are sought as well as a national system of inspection for softwoods similar to that already established for hardwoods.

The practical program for permanent trade promotion submitted to the association at its recent annual meeting calls for 10 co-ordinated campaigns to be carried on simultaneously. These will deal with home building, farm building, retail cooperation, building codes and architecture, industrial construction, fabricated industrial uses, box and crating container uses, railway and car construction, highway construction, government lumber uses. In this group is combined 90% of the total lumber markets.

Each program is complete in itself; has a complete outline of suggested activities under the heads of research, promotion, advertising, and publicity; each is directed at a vital lumber market. Factors considered in the development of this long-range plan include: export lumber trade promotion; raising important lumber markets according to their potential volume; initiating research based upon known consumer buying habits and needs of the industry; revision of present distribution methods; development of sales appeals which will tie lumber and wood products directly to the self-interest of the buyer in each market; stimulation of acceptance by lumber manufacturers of responsibility for aid in national and regional promotional efforts.—(The Business Week).

CRUSHING STRENGTH OF CONCRETE PAVEMENT BASE CONSTRUCTION CITED

The cylinder crushing strength which is required for the concrete paving bases in cities varies from 1000 lbs. per sq. in. to 4000 lbs. per sq. in. at 23 days, according to Charles E. Reppert, city engineer of Pittsburgh in a recent survey of paving practices in 20 large cities in the United States made by the American Road Builders' Association.

Slightly more than ¼ of the cities require that the concrete shall show a crushing strength of not less than some figure between 2000 and 3000 lbs. per sq. in., says Mr. Reppert. Four cities permit the strength to be less than 2000 lbs. per sq. in. while many have no strength requirements to be met.

One of the requirements of the concrete used in bases, where the temperature of the base gets well below the freezing point of water, is that it shall be so dense that the water in the pores will not freeze and disrupt the materials forming the concrete. Concrete having a crushing strength of between 2000 and 3000 lbs. per sq. in. evidently satisfies this condition as the cities having the colder weather require a concrete to be within this range, while the lower strength of the concrete are used in those cities having a warm climate.

The maximum economy in the building of a concrete foundation can be secured only through the accurate proportioning of the aggregates, cement and water. Only two of the survey cities do not definitely require the accurate proportioning of the ma-

terials. Only seven of the survey cities do not state that the concrete mixer be equipped with a timing device. These cities may have exceptionally dependable contractors so that mechanical devices are not necessary to insure that the concrete is always thoroughly mixed. Timing devices, however, seem to be considered more certain.

A mixing time of from 1 to 1½ min. is the most generally used. No city reported the requirement of less than 1 min. Only three cities require over 1½ min. The longer mixing time makes the concrete more workable and permits the use of less water to produce cement that can be easily placed and without the separation of the water. It has been found that a long mixing time is an advantage in the preparing of central mixed concrete, as it makes the concrete less liable to separate during its transporting.

The consistency of the base concrete when it is placed is considerably stiffer than that used for concrete building work. The required "slump" or standard cone, in almost every case, comes between 1 and 2 in. Well proportioned and thoroughly mixed concrete having almost no "slump" can be easily placed in a concrete base with a little light tamping.

The surveyed cities seem to be about equally divided on the question of using, for pavement bases, concrete which runs into place and one that requires some tamping to place it properly.

SURVEY INDICATES DEMAND FOR MODERATE PRICED HOME

Actual home buying now going on shows a strong preference for houses whose building cost is under the \$5000 mark. A price ranging from \$6000 to \$6900 for the home, land and building together, is proving the one right now most popular. That is indicated by a study which has just been made by the National Association of Real Estate Boards of the most recent 10,108 home sales made by members of its Brokers Division.

The reports of sales were from 100 firms in 76 cities, supplemented by city-wide reports from 6 real estate boards. The reports are drawn from 26 states, the District of Columbia, and one Canadian Province. The houses sold included both new and old structures.

Homes sold (land and buildings) were divided into 18 groups according to their price range. Of the sales, 10,29% (1041 sales) were reported for the group with a price range \$6000 to \$6900. From this peak group the curve drops at once to the group of between \$4000 and \$4900 price range, in which were 1008 sales, close to 10% of the total number. Then it goes back and gives third place to the group between these leaders, homes with a price range from \$5000 to \$5900, inclusive, for which 988 sales were reported.

The largest incidence of sales, in fact 30.4% of all sales, were thus in the price range \$4000 to \$4900, inclusive. It is estimated that on an average from 20% to 30% of the cost of the home (land and buildings) is in the price of the land. This means

therefore that the group of properties moving most rapidly at the present time are those in which the cost of the building ranges just under \$5000. Making a composite picture of the three highest groups it is seen that the range of most sales is of homes in which building values are from \$3000 to \$5000.

Even this is not all the story of present day preference for the small and inexpensive home. Descending from the peak group the curve swings once briefly to the other side. The price range \$7000 to \$7900, inclusive, takes fourth place, with 845 sales. But the price mark \$8000 seems to be a line of demarkation. From this point the advantage lies again with the cheaper houses. A price range of under \$8000 on a home (building and land) means approximately a range in which building cost or building value falls under \$6000. Sales in the groups under \$5000 in price total 549. This is 54.37% or well over half of all sales.

The report on the whole shows a rather general distribution of sales in the various price brackets, and it is noticeable that homes in the highest price group, \$35,000 and over, show 366 sales, 3.62% of all transactions reported. Homes in the price range \$30,000 to \$34,900, the least popular group, sold in proportion to those in the most popular bracket in the ratio of 1 to 6. Homes in the highest price range, \$35,000 and over, showed in comparison with homes in the lowest price range, \$2900 and less, sales in the ratio of one to two and one-fourth.

doubling of capacity of the State Refrigeration Terminal at China Basin.

A fireproof warehouse, including shops and garage, and costing about two hundred thousand dollars, is planned for the sea-wall lot, now vacant, at Bryant and Spear Streets. The warehouse will be occupied jointly by the State Purchasing Department and the Harbor Board for their respective stores.

Perhaps most important of all of the projected developments is that of providing new, larger and better pier facilities both north and south of the Ferry Building. North of the Ferry Building it is the intention to remove eight old piers. In place of these piers there will be constructed six new piers. The present piers which are to be torn out are from 600 to 800 feet long and from 100 to 130 feet wide. The new piers, entirely fireproof in their construction, will be from 800 to 1000 feet long and from 100 to 250 feet wide. South of the Ferry Building a new pier is proposed which will be known as E2, just south of the line of Mission Rock.

Important development is projected for Islais Creek. A wharf 900 feet long will be built eastward on the south side of Islais Creek from the end of the present 1300 feet wharf to the eastern terminus of the present solid fill. On the north side of Islais Creek west of the Third Street Bridge a wharf some 1800 feet long will be built from Third Street to the Southern Pacific Railway tracks.

Other plans, as announced by Chief Engineer Frank G. White, in behalf of the Harbor Board, call for the development of a cotton terminal back of the new outer wharf at Islais Creek. This construction will not be attempted until the cotton business of the port has developed sufficiently to warrant it.

Plenty of funds are available to President P. W. Meherin and his associates, Commissioners Joseph J. Tyman and Joseph A. Moore, of the Harbor Board, for the contemplated improvement. A balance of about two million dollars remains from the 1913 harbor bond issue, besides which there is available the 1930 harbor bond issue of ten million dollars which has not yet been touched.

Five directors were elected by the Pasadena Builders Exchange for three-year terms at the annual meeting last week. They are: George L. Throop, building material dealer; Clifford Ward, plastering contractor; Frank Hampel, brick contractor; G. O. Syphard, tile and marble company, and A. R. Benedict, plumbing contractor. Throop and Benedict were re-elected. Officers for the coming year will be chosen at a meeting this week.

Larsen and Larsen, general contractors, formerly located at 644 Russ Bldg., announce the removal of their offices to a new quarters at 829 Bryant Street.

Samuel M. Shortridge, United States Senator, will address the regular weekly luncheon-meeting of the San Francisco Electrical Development League today at the Palace Hotel. Senator Shortridge will speak on matters of national significance, his topic being "This Country of Ours."

Mrs. Beatrice Woodruff Weeks, San Francisco society matron and the widow of Charles Peter Weeks, noted San Francisco, architect, died in Panama last Thursday. The late Charles Peter Weeks was the architect for the Fairmont, Mark Hopkins, Sir Francis Drake Hotels and other notable San Francisco structures.

The following table shows number and per cent of sales in various price ranges:

Price Range	Number of Sales	Percentage of Sales
\$ 6,000 to 6,900 incl.....	1,041	10.29
4,000 to 4,900 incl.....	1,608	9.97
5,000 to 5,900 incl.....	988	9.77
7,000 to 7,900 incl.....	845	8.35
2,900 or less.....	826	8.17
3,000 to 3,900 incl.....	791	7.82
8,000 to 8,900 incl.....	596	5.89
10,000 to 10,900 incl.....	534	5.28
13,000 to 14,900 incl.....	532	5.25
15,000 to 16,900 incl.....	449	4.44
20,000 to 24,000 incl.....	396	3.96
17,000 to 19,900 incl.....	382	3.87
9,000 to 9,900 incl.....	357	3.81
35,000 and over.....	366	3.62
12,000 to 12,900 incl.....	304	3.
25,000 to 29,900 incl.....	263	2.6
11,000 to 11,900 incl.....	230	2.27
30,000 to 34,900 incl.....	166	1.64

EXTENSIVE BUILDING PROGRAM OUTLINED BY HARBOR COMMISSION

Plans for the expenditure of between four and five million dollars in improvements on San Francisco Harbor within the next three or four years have been adopted in tentative form by the Board of State Harbor Commissioners.

The program includes extensions of and more modern equipment for the State Belt Line Railroad, new piers, a new State warehouse, and raising back to grade and repaving portions of the Embarcadero and of other streets under State control, abutting the waterfront.

Of particular importance is the new pier construction inasmuch as the Dollar Line, the Matson Line, the Panama Mail, and other steamship lines, must have added berthing accommodations for the new ships which they contemplate putting into the

world trade, with San Francisco as the home port.

The Belt Line Railroad will be extended across the Third Street Bridge when the latter is reconstructed, so as to serve piers as far south as the Islais Creek-India Basin District. The Third Street Bridge is to be rebuilt by the Harbor Board and the City of San Francisco jointly. Bids for the construction have already been received. The nine steam locomotives now operated by the State Belt Line Railroad will be replaced as fast as practicable by new Diesel electric locomotives which are not only more economical of operation, but are less noisy and smoky.

Contracts have already been let for raising back to grade and repaving four blocks of the Embarcadero south of the Ferry Building, and also for the

Building News Section

APARTMENTS

Plans Being Completed.

APARTMENTS Cost, \$20,000
SAN FRANCISCO Monterey Blvd.
 Two-story and basement frame and
 stucco apartments and store (4
 4-room apts.)
 Owner—Withheld.
 Architect—J. A. Porporato, 619 Wash-
 ington St., San Francisco.

Segregated Figures Being Taken.
APARTMENTS Cost, \$125,000
OAKLAND, Alameda Co., Cal.
 Three-story and basement frame and
 stucco apartments (21 2 and 3-
 room apts.)
 Owner—Withheld.
 Architect—W. J. Wilkinson, 4263 Pied-
 mont Ave., Oakland.

Preparing Working Drawings.
APARTMENTS \$45,000
SAN MATEO, San Mateo Co., Cal.
 Three-story and basement frame and
 stucco apartments (15 2 and 3-
 room apts.)
 Owner—Moore Constr. Co., % Realty
 Investment Co., Room 310, 101
 Post St., San Francisco.
 Architect—Edwards and Scharj, 605
 Market St., San Francisco.

Composition tile roofing, steam heat-
 ing system.
 Plans will be ready for bids in about
 two weeks.

Structural Steel Contract Awarded.
APARTMENTS Cost, \$60,000
SAN FRANCISCO, Buchanan Street
 near Jackson Street.
 Three-story and basement frame and
 stucco apartments (twelve 3- and
 4-room apts.; steam heat, composi-
 tion roof).
 Owner and Builder—T. I. Strand, 471
 Colon Street.
 Architect—R. R. Irvine, Call Bldg.
Structural Steel—Golden Gate Iron
 Works, 1541 Howard St.

Preparing Working Drawings.
APARTMENTS Cost, \$75,000
SAN FRANCISCO, Jefferson and
 Webster Streets.
 Three-story and basement frame,
 stucco and brick apartments (18
 2, 3 and 4-room apts.; 18 garages;
 tile and composition roof).
 Owner—Ben Liebman, 1555 Francisco
 St., San Francisco.
 Architect—R. R. Irvine, Call Bldg.,
 San Francisco.

Preparing Working Drawings.
APARTMENTS Cost, \$85,000
SAN FRANCISCO, North Point and
 Fillmore Streets.
 Three-story and basement frame,
 stucco and brick apartments (18
 2, 3 and 4-room apts.; 18 garages;
 tile roof).
 Owner—Ben Liebman, 1555 Francisco
 St., San Francisco.
 Architect—R. R. Irvine, Call Bldg.,
 San Francisco.

Preparing Working Drawings.
APARTMENTS Cost, \$75,000
SAN FRANCISCO, Jefferson and Fill-
 more Streets.
 Three-story and basement frame,
 stucco and brick apartments (18
 2, 3 and 4-room apts.; 18 garages;
 tile and composition roof).
 Owner—Ben Liebman, 1555 Francisco
 St., San Francisco.

Segregated Figures Being Taken.

APARTMENTS Cost, \$75,000
ALAMEDA, Alameda Co., Cal.
 Three-story and basement frame and
 stucco apartments (24 2, 3 and 4-
 room apts.)
 Owner—Withheld.
 Architect—W. J. Wilkinson, 4263 Pied-
 mont Ave., Oakland.

Segregated Figures Being Taken.
APARTMENTS Cost, \$100,000
BERKELEY, Alameda Co., Cal.
 Three-story and basement frame and
 stucco apartments (20 2 and 3-
 room apts.)
 Owner—Withheld.
 Architect—W. J. Wilkinson, 4263 Pied-
 mont Ave., Oakland.

Contract Awarded.
APARTMENTS Cost, \$10,000
BURLINGAME, San Mateo Co., Cal.
 Broadway.
 One- and two-story reinforced con-
 crete apartment and store bldg.
 Owner—Martin Stelling and E. L.
 Gould, 155 Montgomery St., San
 Francisco.
 Architect—Bertz, Winter and Maury,
 210 Post St., San Francisco.
 Contractor—G. P. W. Jensen, 320 Mar-
 ket St., San Francisco.

BONDS

SAN ANDREAS, Calaveras Co., Cal.
 Election will be held June 15 by
 West Point Union School District to
 vote bonds of \$7500 to finance erection
 of a new school. Trustees of the dis-
 trict are: Winnie Bardsley, Thelma
 Porteous, Harold R. Havens, W. W.
 Congdon and Claude T. Smith.

CHURCHES

Plans Being Figured—Bids Close June
 3rd.
CHURCH Cost, \$20,000
SACRAMENTO, Sacramento Co., Cal.
 SW 38th St. and 4th Ave. (72x125
 feet).
 One-story reinforced concrete and
 stucco church (seat 250; tile roof).
 Architect—Wm. E. Coffman, Forum
 Bldg., Sacramento.

Electrical Bids Opened.
CHURCH Cost, \$—
SAN FRANCISCO, Funston Avenue
 and Judah St. (St. Anne's Church)
 Class A reinforced concrete church.

SKILSAW Portable Electric Hand
 Saws (4 models).

SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attach-
 ments.

SYNTRON Portable Electric Ham-
 mers (4 models, motor-
 less).

MALL Flexible Shaft Machines (50
 models).

Electric Drills, Grinders, Buffers,
 Routers, Lock Mortisiers.

PETER H. NELSON

Labor Saving Portable Electric
 Tools.

1248 Mission St. UNDARHILL
 San Francisco 7662
 SALES . SERVICE . RENTALS

Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.
 Architect—Shea and Shea, 454 Mont-
 gomery Street.
 Low Bidder—Severin Electric Co., 172
 Clara St., \$6,939.

Superior Electric Co., Phelan Bldg.,
 at \$7,500 submitted second low bid.
 As previously reported, heating and
 ventilating awarded to A. A. Polla,
 401 14th Ave.; general contract to S.
 Rasori, Call Bldg., at \$186,000; plumb-
 ing to Dowd & Welch, 3553 18th St.,
 at \$3958.

Bids Opened—Contract Awarded.
CHURCH Cont. price, \$37,354
NAPA, Napa Co., Calif. Third and
 Patchett Streets.
 One-story steel frame and reinforced
 concrete church.
 Owner—St. Mary's Episcopal Church,
 Napa.
 Architect—C. Leroy Hunt, Second and
 Main Sts., Napa.
 Contractor—E. W. Doughty, 1125 1st
 St., Napa.

Following is a complete list of bids:
 E. W. Doughty, Napa.....\$37,354
 Geo. Hudson, Oakland.....37,398
 Larsen & Larsen, S. F.....39,300
 The Minton Co., Palo Alto.....39,580
 A. F. Mattock, S. F.....39,946
 Gaulbert Bros., Oakland.....40,640
 H. H. Henning, Stockton.....40,780
 E. W. Arnitz, Napa.....40,866
 Sullivan & Sullivan, Oakland.....41,399
 Petaluma Const. Co., Petaluma.....41,658
 Fred Willard, Oakland.....41,750
 Thos. F. L. Furlong, Oakland.....41,968
 J. Dawson, Berkeley.....42,894
 Work will begin shortly.

FACTORIES AND WARE- HOUSES

Plans Being Completed.
WAREHOUSE Cost, \$40,000
OAKLAND, Alameda Co., Cal. First
 and Market Streets.
 One-story brick and steel frame ware-
 house (140x150 ft.)
 Owner—Howard Terminal Corp., First
 and Market Sts., Oakland.
 Architect—Reed & Corlett, Oakland
 Bank Bldg., Oakland.
 The roof, concrete floors, steel sash,
 steel rolling doors.
 Bids will be taken in one week.

Sub-Contracts Awarded.
WAREHOUSE Cont. Price, \$70,975
OAKLAND, Alameda Co., Cal. West
 14th Street Pier.
 One-story steel frame warehouse (518
 by 100 ft.; Warehouse AA).
 Owner—City of Oakland (Port Com-
 mission), 424 Oakland Bank Bldg.,
 Oakland.

Plans by Eng. Dept. of Owner.
 Contractor—H. J. Christensen, Ray
 Bldg., Oakland.
 Lessee—Rosenberg Bros., Third and
 Bancroft Sts., Oakland.
 Steel frame and wooden girts and
 studs, galvanized iron covering, con-
 crete floor on earth flooring.
Reinforcing Steel—McGrath Steel Co.,
 354 Hobart St., Oakland.
Concrete—J. H. Fitzmaurice, 354 Ho-
 bart St., Oakland.

Revised Plans Completed.
WAREHOUSE Cost, \$20,000
OAKLAND, Alameda Co., Cal. South
 Seventh St. E Fallon St.
 One-story reinforced concrete ware-
 house.

Owner—George R. Borrmann Steel Co., 4th and Grove Sts., Oakland.
 Engineer—H. W. Bolin, Financial Center Bldg., Oakland.
 Will take bids in a few days.

To Take Bids In Thirty Days.
 ICE PLANT, ETC. Cost, \$700,000
 ANGLE, Sacramento Co., Cal.
 Lime and dry ice plant comprising opening quarry, cable lines, bunkering system, unloading system, manufacturing plant buildings, raw material, storage quarters, etc.

Owner—California Lime and Products Co., R. L. Hollingsworth, general manager, Lincoln.

Engineers—Smith—Emery Company, 651 Howard St., San Francisco.
 Lime plant will have a capacity of 200 tons per day. Liquid CO₂ plant, 50-ton capacity dry ice per day.
 Purchase of 60 acres of property has been completed and construction of the quarry unit will cost approx \$125,000.

Sub-Contracts Awarded.
 WAREHOUSE Cont. price, \$70,375
 OAKLAND, Alameda Co., Cal. West 14th Street Pier.

One-story steel frame warehouse (518 x 100 ft., Warehouse AA).
 Owner—City of Oakland (Port Commission), 424 Oakland Bank Bldg., Oakland.

Lessee—Rosenberg Bros., Third and Bancroft, Oakland.
 Plans by Eng. Dept. of Owner.
 Contractor—H. J. Christensen, R a y Bldg., Oakland.

Steel frame and wooden girts and studs, galvanized iron covering, concrete floor on earth flooring.
 Plumbing—J. A. Fazio, 402 Castro St., Oakland.

Reinforcing Steel—McGrath Steel Co., 254 Hobart St., Oakland;
 Rolling Steel Doors—J. G. Wilson Corporation, 26 O'Farrell St. S. F.
 Sheet Metal Work—Edgar W. Anderson Co., 2103 San Pablo Ave., Oakland.

Lumber—Oakland Planing Mill, Inc., 2nd and Washington Sts., Oakland
 Painting—M. Williams & Sons, 3100 63rd St., Oakland.
 San—Atlas Olympia Co., Ltd., 525 Market St., San Francisco.
 Coarse Aggregates—Blake Bros. Co., Balboa Bldg., San Francisco.

Construction Postponed Indefinitely.
 BUILDINGS Cost 1st unit, \$75,000
 Total cost, \$400,000
 CONCORD, Contra Costa Co., Calif.
 Immediately adjoining the city limits and extending approximately 7 miles).

Group of approx. 20 poultry buildings, administration buildings, offices, warehouses, etc.)
 Owner—Wickham - Havens, Inc., 1510 Franklin St., Oakland.
 Plans by Eng. Dept. of Owner (H. Sylvester, engineer), 1510 Franklin St., Oakland.

SOUTH GATE, Los Angeles Co., Cal.
 —Plans for a factory group covering 10 acres and consisting of 20 individual units, are being prepared by the engineering department of the American Malze Products Corp., 100 East 42nd St., New York City. Work is planned to start in ninety days. This company, which has a Los Angeles office at 1855 Industrial St., recently acquired 70-acre tract of land at the northeast corner of Firestone Blvd. and Atlantic Ave., South Gate, where the present group of buildings for the manufacture of food products is to be located. The entire investment, including land buildings and equipment, is estimated at between \$7,000,000 and \$10,000,000. The officers of the company are: C. Marcus D. Edinburg, president and R. D. Daly, vice-president.

Plans Being Completed.
 WAREHOUSE SUPERSTRUCTURE
 Cost, \$250,000
 OAKLAND, Alameda Co., Cal. Outer Harbor Terminal.
 Two - story reinforced concrete warehouse ("C") superstructure, (210x 380-ft.)
 Owner—City of Oakland Port Commission (G. B. Hegardt, secretary), 424 Oakland Bank Bldg., Oakland.
 Plans by Eng. Dept. of Owner.
 Bids will be called for shortly.

Sub-Bids Being Taken.
 ADDITION Cost, \$20,000
 SAN FRANCISCO. 383 Brannan St.
 Two-story steel frame and brick addition to warehouse.
 Owner—San Francisco Warehouse, 625 Third Street.
 Engineer—Ellison and Russell, Pacific Building.
 Contractor—Barrett & Hill, 918 Harrison Street.

Sub-bids are wanted on brick work, electric wiring, plumbing, structural steel, concrete, elevators, galls, sheet metal, painting, plastering steel sash, roofing, finish hardware and miscellaneous iron.

Plans Being Figured.
 SACKING PLANT Cost, \$15,000
 SHELL POINT, Contra Costa Co. Cal.
 One-story steel frame sacking plant.
 Owner—Shell Oil Co., Shell Bldg., San Francisco.

Plans by Eng. Dept. of Owner.
 A. P. Cole, Shell Point, is in charge of construction.

OAKLAND, Cal.—Until June 1, 4:30 P. M., bids will be received by City Port Commission, 424 Oakland Bank Bldg., Oakland, for electric wiring for Warehouse AA, located on W 14th St. Pier.

FLATS

Sub-Contracts Awarded.
 FLATS Cost, \$10,000
 SAN FRANCISCO, E Divisadero St.
 N Francisco St.

Two - story and basement frame and stucco residence (2 flats).
 Owner—B. S. West, 1274-A Green St.,
 Plans by Mr. Papenhausen.
 Contractor—H. Papenhausen, 536 Victoria Street.

Concrete Work—P. Donnelly, 302 23rd Avenue.

Lumber—Mission Lumber Co. 1307 Valencia Street.

Millwork—Empire Planing Mill, 750 Bryant Street.

Plumbing—Higgins & Kraus, 741 Te-hama Street.

Electric Work—Galvin Bros.

Plastering—Campbell & Johnson.

Sheet Metal—Frank Murphy, 288 Precita Avenue.

Steel Beams—Schrader Iron Works, 1247 Harrison St.

Painting—Reliable Painting Co., 3247 Nineteenth St.

Tile—Mangrum - Holbrook Co., 1235 Mission St.

Heating and roofing bids are being taken.

GARAGES AND SERVICE STATIONS

Sub-Bids Wanted.
 SERVICE BLDG. Cost, \$50,000
 VALLEJO, Solano Co., Cal. NW So-noma and Main Sts. (130x150-ft.)
 Two-story automobile plant and service building (probably brick construction).

Owner—Acme Motor Co. (Vallejo Ford dealers).
 Architect—Claude Earton, 522 Grand Ave., Oakland.
 Harold Paige, 5651 Oak Grove Ave., Oakland, general contractor, desires sub-bids on all portions of the work

In connection with above, for which bids are to be opened June 5th, 3 P. M.

Plans Being Completed.
 GARAGE Cost, \$15,000
 OAKLAND, Alameda Co., Cal. Park Blvd.

One-story hollow tile garage.
 Owner—Withheld.
 Architect—Claude B. Barton, 522 Grand Ave., Oakland.
 Expect to call for bids in about 30 days.

Segregated Figures Being Taken.
 SERVICE STATIONS
 Cost, \$3000 and \$5000 each
 ALAMEDA COUNTY.

Five oil stations.
 Owner—Various (names withheld).
 Architect—W. J. Wilkinson, 4568 Piedmont Ave., Oakland.

Plans Being Figured—Bids Close June 5th, 3 P. M.

SERVICE BLDG. Cost, \$50,000
 VALLEJO, Solano Co., Cal. NW So-noma and Main Sts. (130x150-ft.)
 Two-story automobile plant and service building (probably brick construction).

Owner—Acme Motor Co. (Vallejo Ford dealers), Vallejo.
 Architect—Claude Barton, 522 Grand Ave., Oakland.
 Bids will be received from a selected list of contractors.

Plans To Be Prepared.
 SERVICE STATION Cost, \$20,000
 FRESNO, Fresno Co., Cal. NW Belmont and N Van Ness Ave.

One-story steel super-services station (complete service departments).
 Owner—Standard Oil Co., W. K. Hut-ton, district representative, Fresno
 Plans by Eng. Dept. of Owner.

TURLOCK, Stanislaus Co., Calif.—Niel and Wirtner Turlock, at \$1,223 awarded contract by Turlock Irrigation District to erect garage in Broadway to various autos of district.

GOVERNMENT WORK AND SUPPLIES

OAHU, T. H.—William MacDonald Const. Co., Syndicate Trust Bldg., St. Louis, Mo., general contractors, are in the market for sub-bids in connection with the development for the Naval Ammunition Depot at Oahu, under Specification No. 6101, bids for which will be opened June 17, by the Bureau of Yards and Docks, Navy Dept., at Washington, D. C. The project involves the erection of 131 buildings, approximately 1½ miles of railroads, 14½ miles of paved roads and electrical, telephone and water supply systems. The MacDonald Const. Co. desires bids on plastering, plumbing, heating, electric and refrigeration and miscellaneous supplies, such as lumber, railroad ties and rails, brick, etc. Plans available for above items from L. Hecht, 340 Pine St., San Francisco. Telephone, BX 1007 4073.

SAN LUIS OBISPO, Cal.—Edwin G. Bowen Co., 3680 Beverly Blvd., Los Angeles, awarded contract by the United States Property and Disbursing Office for California at \$17,327.31 for construction of nine combination kitchens and mess halls, and \$13,127.33 for construction of four lavatory buildings at California National Guard training camp on Morro Road, San Luis Obispo, W. Johnson & Hansen, 64 N. Fir St., Ventura, awarded contract at \$193 for 280 tent floors. W. J. Smith, 1115 Higuera St., San Luis Obispo, awarded contract at \$1650 for extensions to sewer and water systems, and \$665 for extensions to electrical system.

SUNNYVALE, Santa Clara Co., Cal.—Henry Tibbitt Contract Co., 64 Pine St., San Francisco, at \$3,500 awarded contract by 12th Naval District, San Francisco, for test piles and borings at the Naval Air Base, Sunnyvale.

SAN FRANCISCO—Until June 2, 10 A. M., under Circular No. 928-31-307, bids will be received by Quartermaster Supply Officer, San Francisco General Depot, Fort Mason, to furnish and deliver between June 20 and June 25, 1931, f. o. b. Fort Mason, San Francisco, in flat or rondolia type cars only, lumber as follows:

Oregon Pine or Douglas Fir

#1 Common, to be reasonably dry and well seasoned, in random lengths, well distributed from 8 to 20 ft.:

- 1"x4", S4S, 5000 ft.
- 1"x4" S4S, 55,000 ft.
- 1"x6" S4S, 20,000 ft.
- 1"x8" S4S, 20,000 ft.
- 1"x10" S4S, 20,000 ft.
- 1"x12" S4S to 1/2" net, 2000 ft.
- 1"x12" S4S, 65,000 ft.
- 1-1/2"x10" rough, 5000 ft.
- 1-1/2"x12" rough, 5000 ft.
- 2"x4" S4S, 60,000 ft.
- 2"x6" S4S, 60,000 ft.
- 2"x8" S4S, 60,000 ft.
- 2"x12" S4S, 15,000 ft.
- 3"x8" rough, 5000 ft.
- 3"x12" rough, 5000 ft.
- 4"x4" S4S, 10,000 ft.
- 4"x6" rough, 5000 ft.
- 4"x8" rough, 5000 ft.

Flooring "B and Better," kiln dried, in random lengths, well distributed not more than 15% less than 10 ft. To be well bundled, like lengths together, suitable for export shipment.

- 1"x4" Vertical grain, S2S T & G, 20,000 ft.
- 1"x6" flat grain, S2S T & G, 20,000 ft.

Beaded Ceiling, V'd and center V'd "B and Better," flat grain, kiln dried, T & G S2S 1"x6", in random lengths, well distributed, not more than 15% less than 10 ft. To be well bundled, like lengths together, suitable for export shipment, 30,000 ft.

Channel Rustic standard pattern, grade "B and Better," flat and/or vertical grain, 1"x6", in random lengths, well distributed, not more than 15% less than 10 ft. To be well bundled, like lengths together, suitable for export shipment, 15,000 ft.

#2 Common, rough, reasonably well seasoned and dry, 1"x12", 10 and 12 ft, 15,000 ft.

Selected Common, rough, reasonably well seasoned and dry:

- 2"x4", 14 and 16 ft. long, 670 ft.
- 1"x2-1/2", 14 and 16 ft. long, 210 ft.
- 4"x4", 6 ft. long, 1600 ft.

LUMBER, California Sugar Pine, "B Select and Better," rough. In random widths and lengths, not less than 6" wide and 8 ft. long:

- 1-1/2" thick, 3000 ft.
- 1-3/4" thick, 2000 ft.

LUMBER, Hardwood, Firsts, to conform to the latest rules of the National Hardwood Lumber Ass'n, and to be inspected by an Inspector from the War Department. In random lengths of 8 ft. and over:

- Cak, 2"x12" 14 and 16 ft. long, 1000 ft.
- Poplar, 2"x12" S4S, 1000 ft.
- Ash, 2"x12" S4S, 1000 ft.

SACRAMENTO, Cal.—Until June 9, 3 P. M., under Order No. 2349-1313, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to furnish and deliver Rio Vista, Solano County:

- 1 Ice cream freezer, 20-quart size, 115 volt direct current motor. "Little Giant," 1 qt., Dohrmann Hotel Sup. Cat. No. 28 or equal.
- 1 water filter, threaded with 1/2" pipe thread, #1-7300, pg. 310, Lovensan Sat. No. 6 or equal.
- 2 mirrors, white enameled frames, 12"x20". Pg. 160, Dohrmann Hotel Sup. Co. Cat. No. 28, or equal.

Contract Awarded.
ALTERATIONS Cont. price, \$2898
SAN FRANCISCO, Presidio.
Inclosing inner side of Main Corridor No. 36 at the Letterman General Hospital.
Owner—United States Government.
Plans by Constructing Quartermaster, Fort Mason.
Contractor—F. D. Turner, 212 Anita Road, Burlingame.

SACRAMENTO, Cal.—Until June 9, 3 P. M., under Order No. 2345-1313, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to furnish and deliver Rio Vista, Solano County, lumber, as follows:

- Pine, S4S, No. 2 Clear and Better**
80 ft. 50 pcs. 1x12-in. x 18-ft.
600 ft. 50 pcs. 1x8-in. x 18-ft.
450 ft. 50 pcs. 1x6-in. x 18-ft.
- Pine, S4S, Select Common**
900 ft. 50 pcs. 2x6-in. x 18-ft.
1400 ft. 50 pcs. 2x8-in. x 23-ft.
1000 ft. 50 pcs. 2x8-in. x 36-ft.
1600 ft. 50 pcs. 2x12-in. x 16-ft.
3600 ft. 50 pcs. pine, S4S, No. 2 clear and better, 3x8-in. x 36-ft. with caulking seam 1/2"x2-in. on 2 edges.
- Pine or Fir, Rough, No. 2, Common**
9000 ft. 750 pcs. 3x4-in. x 12-ft.
10500 ft. 750 pcs. 3x4-in. x 14-ft.
12000 ft. 750 pcs. 3x4-in. x 16-ft.
10500 ft. 750 pcs. 2x6-in. x 14-ft.

All of the above lumber to meet grading of Pacific Lumber Inspection Bureau, Inc.
Delivery is a matter of importance and is desired within five days after notification of award. Bidders are requested to state when delivery will be made.

SAN FRANCISCO—M. B. McGowan Call Bldg., awarded contract for driving 20 creosoted piles for the U. S. Lighthouse Service at the Lighthouse Depot at Goat Island, San Francisco Bay.

HAWTHORNE, Nev.—A. D. Drumm Jr., Fallon, Nev., submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., May 20, at \$15,413.33 for treating gravel roads at the Naval Ammunition Depot, Hawthorne, with asphaltic fuel oil, involving approximately 83,000 sq. yds.

SAN FRANCISCO—Until June 4, under Circular No. 31, bids will be received by Constructing Officer, Medical Section, S. F. General Depot, Fort Mason, to furnish and deliver 2 therapeutic lamps, 1 polysine generator, 1 coagulation set, 1 mercury lamp, 1 therapeutic lamp, 1 massage vibrator, 1 set high frequency, and 2 high frequency machines. Specifications obtainable from above.

Bids Opened.
REPAIRS, ETC. Cost, \$—
SAN FRANCISCO, U. S. Customhouse. Exterior and interior repairs and painting for U. S. Customhouse.
Owner—United States Government.
Plans by Wm. Arthur Newman, 402 Post Office Bldg.

- Following is a complete list of bids:
- A. E. Burgess, 282 7th St. \$ 6,686
 - Raphael Company 5,490
 - Aristo Painting Co. 7,584
 - Torney Company 7,484
 - Cramer Bros. 7,945
 - J. H. Devert 8,691
 - Shulman-Conroy Painting Co. 10,801
- Bids referred to Washington for award.

HAWTHORNE, Nev.—As previously reported, A. D. Drumm, Jr., Fallon, Nev., at \$15,413.33 submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., May 20, under Specification No. 6515, for asphaltic road oiling at the Hawthorne Naval Ammunition Plant. Complete list of bids follows:

- A. D. Drumm, Jr., Inc., Fallon, Nev. \$15,413.33.
- George Gardener & Sons, Redlands, Calif., \$15,500.
- U. B. Lee, San Leandro, Calif., \$18,000.

Bids Opened.
ALTERATIONS Cost, \$—
SAN FRANCISCO, Presidio.
Inclosing inner side of Main Corridor No. 36 at the Letterman General Hospital.
Owner—United States Government.
Plans by Constructing Quartermaster, Fort Mason.

- Following is a complete list of bids:
- F. D. Turner, 212 Anita Road, Burlingame \$2,898
 - Royal Lind, San Francisco 2,370
 - University Const. Co. 3,073
 - Clancy Bros. 3,360
 - Gauley & Yant 3,433
 - Theo. Johanns 3,528
 - F. J. Reilly 4,383
 - C. F. Jorgensen Co. 4,475
 - E. F. Spiedel 4,795
 - E. G. Hart 4,982
- Bids held under advisement.

May 26, 1931
Plans Being Figured—Bids Close June 5th, 11 A. M.
REPAIRS Cost, \$—
SAN FRANCISCO, Letterman Hospital.
Tile and wainscoting in main kitchen (No. 9) and dining room (No. 10).
Owner—United States Government.
Plans by Constructing Quartermaster, Fort Mason.

Terra Cotta and Brick Contracts Awarded.
POST OFFICE Cont. price, \$545,200
OAKLAND, Alameda Co., Calif., 12th, 13th, Alice and Jackson Sts.
Superstructure of class A post office (terra cotta exterior).
Owner—United States Government.
Plans by Supervising Architect, Treasury Dept., Washington, D. C.

Contractor—K. E. Parker, 135 South Park, San Francisco.
Terra Cotta—N. Clark & Son, 116 Natoma St., San Francisco.
Brick Work—White & Gloor, Monadnock Bldg., San Francisco.

As previously reported, structural steel awarded to Judson Pacific Co., 609 Mission St., San Francisco; heating to J. H. Pinkerton, 927 Howard St., San Francisco; plumbing to J. A. Farlo, 402 Castro St., Oakland.
Other awards will be made shortly.

Preparation Plans.
FEDERAL BLDG. Cost, \$1,050,000
PHOENIX, Arizona.
Class A Federal Bldg.
Owner—United States Government.
Architect—Lescher & Mahoney, Title & Trust Bldg., Phoenix.

SAN FRANCISCO—Until June 3, 11 A. M., under Specification No. 6574, bids will be received by Public Works Officer, Twelfth Naval District, 100 Harrison St., San Francisco, for re-finishing office furniture at the Twelfth Naval District Staff Headquarters Specifications obtainable from above office on deposit of \$10, checks for same to be made payable to the Chief of the Bureau of Yards and Docks. Deposit is returnable.

SAN FRANCISCO—Until June 3, 11 A. M., under Specification No. 6573, bids will be received by Public Works Officer, Twelfth Naval District, 100 Harrison St., San Francisco, for the improvement of the ventilation at the office on the fifth floor of the District Staff Headquarters at 100 Harrison St. Specifications obtainable from above office on deposit of \$10, returnable, checks for same to be made payable to the Chief of the Bureau of Yards and Docks.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Dept., Washington, D. C., to furnish and deliver miscellaneous supplies and equipment for Navy Yards and Stations as noted in the following schedules, further information being available from the Navy Purchasing Officer, 100 Harrison St., San Francisco:

Bids Close June 9

Western yards, Portland cement; sch. 5787.

Western yards, clamps and punches; sch. 5774.

Puget Sound, 375 pairs tinners' shears and 60 pairs sailmakers' or tailors' shears; sch. 5756.

Western yards, common, pocket andatchet screwdrivers; sch. 5755.

Western yards, saws, back, band; compass, cross-cut, miter box, and niter boxes; sch. 5783.

Western yards, 20 floor drains, 25 ship lavatories, 46 shore lavatories, 120 toilet seats, 24 showerheads, 125 do, 10 urinals, 20 do, 67 waterclosets, and 10 tubs; sch. 5782.

Puget Sound, 1 vacuum printing frame and outfit, complete; sch. 5771.

Puget Sound, 1 motor-driven bench precision lathe; sch. 5743.

Western yards, woodbooring bits, chisels, knives and scrapers; sch. 5776.

Western yards, shovels; sch. 5779.

Western yards, carbon and high speed twist drills; sch. 5790.

Mare Island, 20,000 lbs. steel wool; sch. 5793.

Bids Close June 16

Western yards, calipers, dividers, auges, planes and squares; sch. 5796.

Mare Island and San Francisco, vacuum tubes; sch. 5797.

Commissioned To Prepare Plans.

ADDITION Cost, \$—
SAN FRANCISCO. Seventh and Mission Streets.
Owner—United States Government.
Architect—Geo. W. Kelham, 315 Montgomery Street.

SAN FRANCISCO.—Healy - Tibbitts Const. Co., 64 Pine St., at 470 awarded contract by Constructing Quartermaster, Fort Mason, for repairs to bridge wharf at Fort Winfield Scott.

Following is a complete list of bids: Healy-Tibbitts Const. Co. 5470
Hinton-Stephenson Const. Co. 5470
En. C. Gerwick 870
Invernal Const. Co. 949
uncanson-Harrelson Co. 998

BENICIA, Solano Co., Cal.—Marosky Co., 55 New Montgomery St., San Francisco, at \$597 awarded contract by Commanding Officer, Benicia Arsenal, for magnesite flooring.

Following is a complete list of bids: Marosky Co., San Francisco \$597
eroy Olsen Co., San Francisco 620
Talott & Peterson, S. F. 630
hoenix Slmpton Co., S. F. 680
aglund & Skuse Co., S. F. 801

HALLS AND SOCIETY BUILDINGS

reparing Working Drawings.

EMORIAL BLDG. Cost, \$17,000
ORT BRACC, Mendocino Co., Cal.
ne-story concrete veterans' Memorial building (concrete walls, T. C. tile roof, maple floors, furnace heat).
wner—City of Mendocino.
rchitect—P. L. Dragon, Mercantile Bank Bldg., Berkeley.

ut-Bids Being Taken.

LUB Cost, \$10,000
ERKELEY, Alameda Co., Cal. Tunnel Road and Domingo St.
wner—City and County of San Francisco.
rchitect—S. Heimann, 57 Post Street.
Final plans to be submitted for approval this week.

Owner—Berkeley Tennis Club, Tunnel Road and Domingo St., Berkeley.
Architect—Roland I. Stringham, 2 60 California St., San Francisco.
Contractor—J. P. Mickelson, 1630 Alcatraz Ave., Berkeley.

Plans To Be Prepared.
CLUB Cost, \$16,000
SAN LUIS OBISPO, San Luis Obispo Co., Cal. North Monterey Street (91x400-ft.)

One-story club building.
Owner—Monday Club, San Luis Obispo.
Architect—Not Selected.
Financial arrangements are now under way.

Plans Being Prepared.
REMODELING Cost, \$18,000
SANGHER, Fresno Co., Cal.
Remodel Kittle Bldg. for lodge hall.
Owner—Sauger Lodge of Masons, No. 316, Olin McClendon, Master.
Architect—Swartz and Ryland, Brix Bldg., Fresno.

Plans will provide for lodge and club rooms, ladies' lounge, banquet hall and kitchen. The exterior of the structure will be remodeled for the Spanish type of architecture with a stucco finish and the roof.

Plans Being Figured—Bids Close June 9th, 8 P. M.
MEMORIAL BLDG. Cost, \$15,000
AUBURN, Placer Co., Cal.

One-story and basement frame and stucco Veterans' Memorial Bldg.
Owner—County of Placer.
Architect—W. E. Coffman, Forum Bldg., Sacramento.

On previous call following contractors submitted bids:
J. P. Morton, Placerville.
J. M. Stoffel, Roseville.
Chas. Unger, 4532 T St., Sacramento
M. R. Peterson, 1116 O St., Sacramento.

Gene Kenyon, Sacramento.
Guth & Fox, 1528 27th St., Sacramento.
George Kopp, 1514 15th St., Sacramento.
C. P. McLeod, Auburn.
W. C. Keatinge, Forum Bldg., Sacramento.
George Hudnutt, 1915 S St., Sacramento.

HOSPITALS

SAN FRANCISCO.—Americal Surgical Sales Co., Ltd., 429 Sutter St., at \$14.10 each, awarded contract by City Purchasing Agent, under Proposal No. 713, to furnish and install 120 beds in the Laguna Honda Home; to be No. 15,000-50-5, Simmons Company of San Francisco.

Contract Awarded.
HOSPITAL Cost, \$140,500
PENDLETON, Oregon.
Three-story reinforced concrete hospital, 43x164 feet (accommodations for 250 patients).

Owner—State of Oregon.
Architect—Knighton & Howell, U. S. Bank Bldg., Portland, Ore.
General Contract—Dougan-Hammond Construction Co., Studio Bldg., Portland, Ore., \$125,800 with garage, \$14,700 additional.

Completing Plans.
HEALTH CENTER Cost, \$800,000
SAN FRANCISCO. Polk and Grove Streets.

Four-story and basement reinforced concrete, class A health center emergency hospital and office (granite facing).

Owner—City and County of San Francisco.
Architect—S. Heimann, 57 Post Street.
Final plans to be submitted for approval this week.

Complete Bld Listing.
HOSPITAL \$—
(exclusive of equipment and furnishings).
SEATTLE, Wash. Beacon Hill.
Class A concrete and steel Marine Hospital (320-bed capacity, stone and terra cotta trim.)
Owner—United States Government.
Architect—John Graham and Bebb & Gould, associate, Dexter - Horton Bldg., Seattle.

The tower will be 16 stories in height with wings seven stories in height. The north half of the main building will be 13 stories and the south half 11 stories. This is due to the slope of the site. The structure will be 258x185 feet in ground area. Bids include all work except elevators, dumb waiters and lighting fixtures:

N. F. Severin Co., Chicago...\$1,269,900
Murch Bros. Constr. Co., St. Louis 1,282,000
National Contracting Co., Minneapolis, Minn. 1,297,000
Schuler & McDonald, Inc., Oakland, Calif. 1,297,000
Clinton Constr. Co., San Francisco 1,316,000
Gjarde & Wills, Seattle 1,327,996
Chrisman & Snyder, Seattle, 1,332,762
Fleisher Engr. & Constr. Co., Chicago 1,345,000
MacDonald & Kahn, Co., Inc., San Francisco 1,349,989
A. W. Quist Co., Seattle 1,354,113
Devault-Dietrich, Inc., Canton, Ohio 1,355,900
A. D. Belanger & Co., Everett, Wash. 1,356,985
Western Constr. Co., Seattle, 1,359,452
Henrikson-Alstrom, Seattle 1,363,000
Hans Pederson, Seattle 1,394,500
R. E. Campbell, Los Angeles, 1,410,000
Sound Construction & Engineering Co., Seattle 1,430,624
Eivind-Anderson, Tacoma 1,462,96

Contract Awarded.
ALTER HOSPITAL Cost, \$60,000
ANTIOCH, Contra Costa Co., Cal.
On Sixth Street Extension.
One-story hospital unit, 30x30 ft. and remodel residence for hospital quarters.

Owner—Mrs. J. A. Brooks, Antioch.
Private Plans.
Contractor—Geo. M. Field, Antioch.
The new structure will contain six private rooms, including hospital equipment and X-ray quarters. A residence now on the site will be remodeled for a maternity ward to provide accommodations for 24 patients.

Preparing Working Drawings.
KITCHEN & REFRIG. PLANT Cost, \$118,000
STOCKTON, San Joaquin County, Cal. State Hospital.
Kitchen and refrigeration plant (reinforced concrete construction).
Owner—State of California.
Architect—Peter Saia, 2130 N Commercial St., Stockton.

Contract Awarded.
HOME Cost approx. \$175,000
SAN FRANCISCO. University and Cambridge Streets.
Two- and three-story reinforced concrete and brick Home for Aged.
Owner—University Mound Old Ladies' Home.
Architect—Alfred Coffey and Martin Rist, Phelan Bldg.
Contractor—J. E. Scully, Phelan Bldg.
Plans will be complete about June 1.

Completing Plans.
REPAIRS Cost, \$17,000
OAKLAND, Alameda Co., Cal. 18th and Poplar Streets.
Addition to detention home.
Owner—County of Alameda.
Architect—H. H. Meyers, Kohl Bldg., San Francisco.
Plans will be ready for bids in about ten days.

HOTELS

Plans Being Figured—Bids Close June 2nd.

REMODELING Cost, \$30,000
SAN FRANCISCO. Grant Avenue and California Street.

Remodeling three upper floors of 4-story building for hotel (55 rooms, 20 baths).

Owner—S. McVine.
Lessee—Withheld.

Plans by G. G. Shimamoto, 1551 Laguna St., San Francisco.

Architect Taking Sub-Bids.

HOTEL & STORES Cost, \$175,000
SAN FRANCISCO. Market and Laguna Streets.

Seven-story steel frame and concrete hotel building (6 stories, 15 hotel rooms; steam heat, oil burner).

Owner—Allen & Co., 168 Sutter St.
Architect—H. C. Baumann, 251 Kearny Street.

Structural Engineer—Jas. M. Smith, 251 Kearny Street.

Plans Being Figured.

REMODELING Cost, \$30,000
SAN FRANCISCO. Grant Ave. and California St.

Remodeling three upper floors of 4-story building for hotel (35 rooms, 20 baths).

Owner—S. McVine (lessee—withheld).
Plans by G. G. Shimamoto, 1551 Laguna Street.

Plans Complete.

HOTEL & STORES Cost, \$175,000
SAN FRANCISCO. Market and Laguna Streets.

Seven-story steel frame and concrete hotel building (6 stories, 115 hotel rooms; steam heat, oil burner).

Owner—Allen & Co., 168 Sutter St.
Architect—H. C. Baumann, 251 Kearny Street.

Structural Engineer—Jas. M. Smith, 251 Kearny St.

Whether bids will be taken or not will be decided this week.

Preliminary Sketches Completed.

HOTEL & STORES Cost, \$12,000
AUBURN, Placer Co., Cal.

Two-story brick hotel and store building.

Owner—C. G. Parkinson, Olive and Santiago Sts., Sacramento.

Architect—Frederick S. Harrison, 1065 10th St., Sacramento.

Contractor—Chas. L. Vanina, 2022 M St., Sacramento.

Preparing Preliminary Sketches.

HOTEL AND STORE Cost, \$—
SACRAMENTO, Cal. SE Fourth and J Streets.

Three-story fire proof hotel and store building (100 rooms, 36 baths, 3 stores).

Owner—Morris Levy et al.
Architect—Frederick S. Harrison, 1065 10th St., Sacramento.

Present hotel on site (St. George Hotel) will be razed.

POWER PLANTS

BRAWLEY, Imperial Co., Cal.—City defeats proposal to issue bonds of \$150,000 to finance construction of a municipal power plant.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Plans Being Figured—Bids Close June 17, 2:30 P. M.

POLICE STATION Cost, \$60,000
SAN FRANCISCO. Golden Gate Park. One-story reinforced concrete police station.

Owner—City and County of San Francisco (S. J. Hester, Sect'y., Board of Public Works).

Architect—Weeks and Day, Financial Center Bldg.

Bids are wanted for:

- (1) general contract.
- (2) electric work.
- (3) plumbing and gas fitting.
- (4) mechanical equipment.

Plans obtainable from the Bureau of Architecture, 2nd floor, City Hall.

SAN JOSE, Santa Clara Co., Calif.—Architect E. N. Curtis, 35 W San Carlos St., San Jose, in a report to the county supervisors estimates the loss in the recent county courthouse fire at \$300,000.

The architect based his estimate on the fact that a partial survey of the interior of the building revealed the loss was more than \$100,000. He declared that when he estimated the cost of rebuilding the courthouse walls and exterior features of the building, the loss will be approximately \$300,000.

Architect Curtis is basing his figures on the cost of rebuilding the courthouse to its former state—but that such action is contemplated—but because it was requested by insurance adjustors to enable them to settle \$35,000 insurance on the building and contents.

Completing Plans.

CITY HALL Cost, \$400,000
BEVERLY HILLS, Los Angeles Co., Calif.

Three-story and basement reinforced concrete City Hall (8-story tower).

Owner—City of Beverly Hills.
Architect—Koerner & Gage, 468 N Camden Drive, Beverly Hills.
Consulting Architect—Austin & Ashley, Chamber of Commerce Bldg., Los Angeles.

The architects will start plans soon for a \$50,000 fire station to be built in connection with the city hall.

Granite and Terra Cotta Contracts Awarded.

LEGION BLDG. Cost, \$2,500,000
SAN FRANCISCO. Civic Center.

Four-story and basement concrete class A Legion Building.

OPERA HOUSE Cost, \$2,500,000
Six-story class A opera house, seating capacity, 4,000; standing room, 500.

Owner—City and County of San Francisco (S. F. War Memorial).

Architect—G. A. Lansburgh, 140 Montgomery St., and Arthur Brown, 251 Kearny Street.

Mgrs. of Const.—Lindgren & Swinerton, Inc., 225 Bush St.

Granite—McOllivray-Raymond Granite Co., 3 Potrero Avenue.

Terra Cotta—Gladding, McBean & Co.

660 Market St.
Contract for setting of granite and terra cotta has not yet been awarded.

Plans Being Figured—Bids Close June 18, 10 A. M.

LIBRARY Cost, \$20,000
SPARKS, Nevada. E Street. One-story brick and concrete, 36x50 ft., branch county library (tile roof).

Owner—Washoe County Library Trustees, Reno, Nevada.

Architect—F. J. De Longchamps Gazette Bldg., Reno, Nevada.

Certified check 5% payable to County of Washoe required with bid. Plans obtainable from architect on deposit of \$10, returnable.

Contract Awarded.

HEATING SYSTEM Cont. price \$1573
STOCKTON, San Joaquin Co., Cal. Install heating and ventilating system in County Jail.

Owner—County of San Joaquin, Eugene Graham, county clerk.

Architect—Jos. Losekann, 1218 West Harding St., Stockton.

Contractor—Pahl Harry Co., 427 East Channel St., Stockton.

Following is a complete list of bids:
Pahl-Harry Co., Stockton.....\$1,573
Fraser Furnace Co., Stockton.....1,574
Millery-Hays Co., Stockton.....1,595
E. L. Gnekow, Stockton.....1,690
Geo. S. Schuler, Stockton.....3,245

Plans Being Figured—Bids Close June 8, 3 P. M.

FIRE HOUSE Cost, \$18,000
OROVILLE, Butte Co., Cal. One-story brick fire house.

Owner—City of Oroville.
Architect—Chester Cole, First National Bank Bldg., Chico.

Concrete Bids Opened.
LEGION BLDG. Cost, \$2,500,000
SAN FRANCISCO. Civic Center.

Four-story and basement concrete class A Legion Building.

OPERA HOUSE Cost, \$2,500,000
Six-story class A opera house, seating capacity, 4,000; standing room, 500.

Owner—City and County of San Francisco (S. F. War Memorial).

Architect—G. A. Lansburgh, 140 Montgomery St., and Arthur Brown, 251 Kearny Street.

Mgrs. of Const.—Lindgren & Swinerton, Inc., 225 Bush St.

Following is a complete list of bids:
(1) Opera house fireproofing.
(2) Opera house walls.
(3) Veterans' Bldg. fireproofing.

ORNAMENTAL WIRE AND IRON WORK

IRON WIRE Fence and Gates

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(4) Veteran's Bldg. walls.
 (5) Opera walls P. P. to 2nd and cols. (stone).
 (6) Same (cast stone).
 (7) Same (terra cotta).
 (8) Veteran's Bldg. walls P. P. to 2nd and cols. (stone).
 (9) Same (cast stone).
 (10) Same (terra cotta).
 (11) Opera house walls R. R. to 4th floor (stone).
 (12) Same (cast stone).
 (13) Same (terra cotta).
 (14) Veteran's Bldg. walls (stone).
 (15) Same (cast stone).
 (16) Same (terra cotta).
 (17) Opera House walls P. P. to 4th floor (stone).
 (18) Same (cast stone).
 (19) Same (terra cotta).
 (20) Veteran's Bldg. walls P. P. to 4th floor (stone).
 (21) Same (cast stone).
 (22) Same (terra cotta).
 (23) Opera house walls balance of building to 4th floor (stone).
 (24) Same (cast stone).
 (25) Same (terra cotta).
 (26) Veterans' Bldg. walls balance of building to 4th floor (stone).
 (27) Same (terra cotta).
 (28) Same (terra cotta).
 (29) Opera house walls, 4th story (stone).
 (30) Same (cast stone).
 (31) Same (terra cotta).
 (32) Veteran's Bldg. walls, 4th story (stone).
 (33) Same (cast stone).
 (34) Same (terra cotta).
 (35) Opera house walls, stage block (stone).
 (36) Same (cast stone).
 (37) Same (terra cotta).
 Stacey-Sommers (1) \$177,200 (2) \$58,245 (3) \$150,654 (4) \$49,314 (5) \$4447 (6) \$4447 (7) \$5487 (8) \$4391 (9) \$4391 (10) \$5415 (11) \$7391 (12) \$7391 (13) \$9316 (14) \$7421 (15) \$7421 (16) \$9274 (17) \$9513 (18) \$8513 (19) \$9890 (20) \$1,017 (21) \$8251 (22) \$10,423 (23) \$15,092 (24) \$15,092 (25) \$17,699 (26) \$14,919 (27) \$14,919 (28) \$17,449 (29) \$2521 (30) \$2521 (31) \$6758 (32) \$2521 (33) \$2521 (34) \$6758 (35) \$7883 (36) \$7883 (37) \$8676.

K. E. Parker (1) \$219,600 (2) \$80,200 (3) \$184,000 (4) \$65,500 (5) \$9750 (6) \$10,000 (7) \$11,500 (8) \$10,600 (9) \$10,900 (10) \$12,300 (11) \$16,500 (12) \$17,100 (13) \$20,700 (14) \$17,300 (15) \$17,700 (16) \$21,100 (17) \$15,100 (18) \$19,200 (19) \$23,500 (20) \$19,520 (21) \$20,600 (22) \$24,500 (23) \$32,300 (24) \$32,800 (25) \$37,800 (26) \$32,600 (27) \$33,000 (28) \$37,100 (29) \$9800 (30) 10,000 (31) 11,200 (32) \$11,200 (33) \$11,200 (34) \$12,800 (35) \$16,600 (36) \$17,000 (37) \$19,000.

Barrett & Hilt (1) \$239,066 (2) \$68,623 (3) \$193,317 (4) \$54,275 (5) \$6292 (6) \$6292 (7) \$7310 (8) \$6866 (9) \$6866 (10) \$7518 (11) \$11,350 (12) \$11,350 (13) \$13,495 (14) \$12,763 (15) \$12,763 (16) \$14,011 (17) \$11,231 (18) \$11,231 (19) \$13,563 (20) \$12,306 (21) \$12,306 (22) \$13,658 (23) \$18,331 (24) \$18,331 (25) \$21,236 (26) \$20,378 (27) \$20,378 (28) \$22,930 (29) \$6285 (30) \$6285 (31) \$7418 (32) \$6879 (33) \$6879 (34) \$7605 (35) \$9496 (36) \$9496 (37) \$10,849.

MacDonald & Kahn (1) \$220,000 (2) \$87,800 (3) \$132,200 (4) \$65,900 (5) \$6,800 (6) \$7500 (7) \$8,800 (8) \$6000 (9) \$6400 (10) \$7000 (11) \$11,500 (12) \$12,700 (13) \$13,800 (14) \$10,100 (15) \$11,100 (16) \$11,900 (17) \$12,200 (18) \$13,700 (19) \$15,300 (20) \$11,000 (21) \$12,100 (22) \$13,100 (23) \$21,300 (24) \$22,700 (25) \$24,200 (26) \$19,000 (27) \$20,600 (28) \$22,400 (29) \$6500 (30) \$7100 (31) \$7100 (32) \$6100 (33) \$6600 (34) \$7400 (35) \$10,400 (36) \$11,400 (37) \$12,400.

Clinton Const. Co. (1) \$270,300 (2) \$76,300 (3) \$199,500 (4) \$54,200 (5) \$10,000 (6) \$12,000 (7) \$13,000 (8) \$3000 (9) \$10,000 (10) \$11,000 (11) \$13,000 (12) \$13,000 (13) \$16,000 (14) \$12,000 (15) \$14,000 (16) \$15,000 (17) \$14,000 (18) \$17,000 (19) \$19,000 (20) \$14,000 (21)

\$16,000 (22) \$18,000 (23) \$28,000 (24) \$31,000 (25) \$34,000 (26) \$24,000 (27) \$27,000 (28) \$30,000 (29) \$11,000 (30) \$12,000 (31) \$14,000 (32) \$11,000 (33) \$12,000 (34) \$13,000 (35) \$13,000 (36) \$15,000 (37) \$17,000.

Louis J. Cobb, (3) \$181,000 (4) \$61,729 (8) \$9313 (9) \$39,813 (10) \$10,853 (14) \$15,814 (15) \$15,814 (16) \$17,704 (20) \$15,584 (21) \$15,584 (22) \$19,315 (26) \$32,076 (27) \$32,076 (28) \$47,718 (32) \$9436 (33) \$9436 (34) \$12,185.

Bids held under advisement.
 The bid of Stacey-Sommers was read over the protest of that firm, the ruling of the Board of Trustees, on advice of their attorney, being that, inasmuch, as two of the bids had been read before the request for the withdrawal of the bid had been made, they were in duty bound to read it. The Board ruled that the firm of Stacey-Sommers could appear before the next meeting of the Board of Trustees and request that their bid be not considered.

RESIDENCE

Contract Awarded.
 RESIDENCE Cost, \$10,000
 SAN FRANCISCO, Marcella Avenue (Forest Hill Section).

Two - story wren in stucco frame and stucco residence (6 rooms).
 Owner—George Sharman.
 Architect—Willis E. Huson, 1913 Green Street.
 Contractor—H. W. Armbrust, 2472 23th Avenue.

Sub-Bids Being Taken.
 RESIDENCE Cost, \$12,000
 PIEDMONT, Alameda Co., Cal.
 Two - story and basement frame and stucco residence (English style; 9 rooms, 3 baths; gas hot air heat; shingle roof).

Owner and Builders—Sigwald Bros., 916 Alva Ave., Oakland.
 Architect—Ray F. Keefer, 770 Wesley Ave., Oakland.

Sub-Contracts Awarded.
 ALTERATIONS Cost, \$25,000
 SARATOGA, Santa Clara Co., Cal.
 Alterations and addition to two-story

residence.
 Owner—O. A. Hale, 2000 Broadway, San Francisco.
 Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.

Contractor—J. Harold Johnson, Hearst Bldg., San Francisco.
 Concrete—John Rodini, Saratoga.
 Plumbing—Standard Plumbing Co., Saratoga.

Heating—Jack Clark, Saratoga.
 Electrical Work—Saratoga Elec. Co., Saratoga.

Lumber—Sterling Lumber Co., Saratoga.
 Millwork—S. H. Chase, San Jose.

Plans Being Completed.
 RESIDENCES Cost each, \$8000
 SAN FRANCISCO, Balboa Terrace.
 Two 1-story and basement frame and stucco residences (7 rooms each).
 Owner—Castle Bldg. Co., 836 Market Street.
 Architect—Not Given.
 Contractor—A. J. Herzog, Ocean and San Benito Aves.
 Sub-bids will be taken shortly.

Low Bidder.
 RESIDENCE Cost, \$11,000
 BERKELEY, Alameda Co., Calif. The Uplands.
 Two - story and basement frame and stucco residence (Spanish type).
 Owner—Mr. Tonjes.
 Architect—Not Given.
 Low Bidder—Beckett and Wight, 722 Scenic Ave., Berkeley.

Plans Being Completed.
 RESIDENCE Cost, \$35,000
 HILLSBOROUGH, San Mateo Co., Cal. Brewer Tract.
 Two - story and basement frame and stucco residence.
 Owner and Builder—Simpson & Wurlitzer, Hillsborough Boulevard and Bromfield Road, Hillsborough.
 Architect—Angus McSweeney, 277 Pine St., San Francisco.
 Bids will be taken in about 2 weeks.

Contract Awarded.
 RESIDENCE Cost, \$10,000
 PIEDMONT, Alameda Co., Cal. 1560 Trestle Glen Road.
 Two - story and basement frame and stucco residence (7 rooms and 3 baths).
 Owner—M. A. Murphy.
 Architect—Ray Keefer, 3281 Lakeshore Blvd., Oakland.
 Contractor—Charles E. Bardwell, 794 Lerida Ave., Oakland.

Construction Postponed Temporarily.
 RESIDENCE Cost, \$6000
 MONTEREY, Monterey Co., Cal.
 One - story and basement frame and stucco residence (6 rooms).
 Owner—Joe Crevelia, 248 Pacific Ave., Monterey.
 Architect—W. H. Hastings and A. W. Story, 282 Alvarado St., Monterey.

Plans Being Figured—Bids Close June 8th, S. P. M.
 DWELLING Cost, \$—
 HANFORD, Kings Co., Cal. High School Grounds.
 Dwelling house.
 Owner—Hanford Joint Union High School District, G. W. Armstead, Clerk.
 Architect—Not Given.

Certified check or bidder's bond 10% required with bid. Plans obtainable from the clerk at Hanford.

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Sub-Contracts Awarded.
RESIDENCE Cost, \$9500
OAKLAND, Alameda Co., Calif. 6929
 Buena Vista Ave.
 Two-story frame and stucco residence
 (6 rooms).
 Owner and Builder—Mortensen Bros.,
 5664 Broadway, Oakland.
 Architect—Not Given.
 Bids are wanted on hardwood floor-
 ing and tile.
 Concrete—J. R. Sorensen, 1382 El Cen-
 tro Ave., Oakland.
 Millwork—Pacific Mfg. Co., 1315 7th
 St., Oakland.
 Plumbing—Ambrose Bros., 206 Chu-
 malla Ave., San Leandro.
 Plastering—A. Cardoni, 5244 Lawton
 Ave., Oakland.
 Heating—L. E. Wilber, 3200 King St.,
 Oakland.
 Electric Work—F. L. Courtney, 5169
 Golden Gate Ave., Oakland.

Completing Plans.
RESIDENCE Cost, \$—
PALO ALTO, Santa Clara Co., Cal.
 Location withheld.
 Two-story and basement frame and
 stucco residence (7 rooms).
 Owner—Withheld.
 Architect—Henry H. Cutterson, 5 2 5
 Powell St., San Francisco.
 Bids will be taken in about two
 weeks.

Sub-Bids Being Taken.
RESIDENCE Cost, \$3000
SAN FRANCISCO. Location Withheld.
 One-story and basement frame and
 stucco bungalow (3 rooms).
 Owner and Builder—John McDermott,
 32 DeLong Street.
 Plans by B. K. Dobkowitz, 425 Mont-
 crey Blvd.

Sub-Bids Being Taken.
ALTERATIONS Cost, \$25,000
SARATOGA, Santa Clara Co., Cal.
 Alterations and additions to two-story
 and basement frame and stucco
 residence.
 Owner—O. A. Hale, 2000 Broadway,
 San Francisco.
 Architect—Bliss & Fairweather, Bal-
 boa Bldg., San Francisco.
 Contractor—J. Harold Johnson, Hearst
 Bldg., San Francisco.
 Bids are being taken from local con-
 tractors only.

Preliminary Plans Completed — Con-
 tract Awarded.
RESIDENCE Cost, \$6500
NORTH SACRAMENTO, Sacramento
 Co., Cal., Woodlake.
 One-story and basement frame and
 stucco residence (5 rooms, 2 baths,
 private garage, patio, etc.)
 Owner—Mr. and Mrs. Voohries, Wood-
 lake, North Sacramento.
 Architect—Frederick S. Harrison, 1065
 10th St., Sacramento.
 Contractor—Lindgren & Swinerton,
 Inc., California State Life Bldg.,
 Sacramento.

Heating Contract Awarded.
RESIDENCE Cost, \$18,000
RUTHERFORD, Napa Co., Cal.
 Two-story and basement frame and
 stucco residence (stone exterior,
 10 rooms).
 Owner—Wallace Everett, Rutherford.
 Architect—Farr & Ward, 68 Post St.,
 San Francisco.
 Contractor—A. Cedarborg, 1455 Excel-
 sior Blvd., Oakland.
 Heating—Robert Bruen, 2729 Prince
 St., Berkeley.

As previously reported, plastering
 awarded to Robert Starrett, 227 13th
 St., S. F.; brick work to Martin Beck;
 mill work to Lannom Bros., 6th and
 Magnolia Sts., Oakland; tile work to
 Rigney Tile Co., 3012 Harrison St.,
 Oakland.

Plans Completed.
RESIDENCE Cost, \$20,000
OAKLAND, Alameda Co., Cal. Clare-
 mont Pines.
 Two-story and basement frame, stucco
 and brick veneer residence (10
 rooms and 4 baths; tile shingle or
 slate roof).
 Owner—Withheld.
 Architect—Masten & Hurd, 210 Post
 St., San Francisco.
 Will take segregated figures this
 week.

To Take Bids Within a Few Days.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Clare-
 mont District.
 Two-story and basement frame and
 stucco residence (9 rooms and 3
 baths).
 Owner—Withheld.
 Architect—Raymond Jeans, 605 Mar-
 ket St., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$18,000
RUTHERFORD, Napa Co., Cal.
 Two-story and basement frame and
 stucco residence (stone exterior,
 10 rooms).
 Owner—Wallace Everett, Rutherford.
 Architect—Farr & Ward, 68 Post St.,
 San Francisco.
 Contractor—A. Cedarborg, 1455 Excel-
 sior Blvd., Oakland.
 Plastering—Robert Starrett, 227 13th
 St., San Francisco.
 Brick Work—Martin Beck.
 Millwork—Lannom Bros., 6th and
 Magnolia Sts., Oakland.
 Tile Work—Rigney Tile Co., 3012 Har-
 rison St., Oakland.

Segregated Bids Being Taken.
RESIDENCE Cost, \$16,000
SAN FRANCISCO. Casita and Lans-
 dale Avenues.
 Two-story and basement frame and
 stucco residence (10 rooms and 3
 baths; composition roof, tile baths,
 hot air heat).
 Owner—Lang Realty Co., 39 Sutter St.
 Plans by Frank S. Nelson, 810 Ulloa
 Street.

Construction Postponed Indefinitely.
RESIDENCE Cost, \$—
SAN JOSE, Santa Clara Co., Cal.
 Two-story and basement frame and
 stucco residence (6 rooms and 3
 baths).
 Owner—Dr. E. E. Porter, Security Bk.
 Bldg., San Jose.
 Architect—Wolfe & Higgins, Realty
 Bldg., San Jose.

Preparing Plans.
RESIDENCE Cost, \$12,500
PALO ALTO, Santa Clara Co., Cal.
 One-story and basement frame and
 stucco residence (8 rooms and 2
 baths; Spanish style; tile roof; hot
 air gas heating).
 Owner—Withheld Temporarily.
 Architect—Trelchel & Goodpaster, 1540
 San Pablo Ave., Oakland.

Preparing Working Drawings.
RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. Ber-
 keley View Terrace.
 One-story and basement frame and
 stucco residence (5 rooms).
 Owner—G. S. Mushet, 324 43rd Street,
 Richmond.
 Plans by A. R. Herberger, 3251 Lake-
 shore Blvd., Oakland.
 Bids will be called for in about 3
 weeks.

Plans Being Completed.
RESIDENCE Cost, \$5500
OAKLAND, Alameda Co., Cal. Mont-
 claire District.
 Two-story and basement frame and
 stucco residence (6 rooms and 2
 baths; gas hot air heat, tile roof,
 electric refrigerator).

Owner—Chas. B. Gillean, 2629 Dwight
 Way, Berkeley.
 Plans by A. L. Herberger, 770 Wesley
 Ave., Oakland.
 Bids will be taken within one week.

Sub-Contracts Awarded.
RESIDENCE Cost approx. \$35,000
HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and
 stucco residence.
 Owner—W. H. Berg.
 Architect—Willis Polk Co., 377 Pine
 St., San Francisco.
 Contractor—A. F. & C. W. Mattock,
 210 Clara St., San Francisco.
 Plumbing and Heating—Morrison and
 Blair, 415 Villa Terrace, San Mateo.
 Millwork—Sunset Lbr. Co., 400 High
 St., Oakland.
 Electrical Work—Meady Electric Co.,
 1136 Chula Vista Ave., Burlingame.
 Sheet Metal—Garvey Sheet Metal
 Works, 1206 Donnelly Ave., Burl-
 ingame.
 Roofing—Slate Roofing Co., 4123 Gil-
 bert St., Oakland.
 Glass—Smith Glass Co., 479 Bryant St.,
 San Francisco.
 Tile—Art Tile & Mantel Co., 221 Oak
 St., San Francisco.
 Plastering—L. Severinsen, 929 Darien
 Way, San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$10,147
SAN FRANCISCO. Marina District.
 Two-story and basement frame and
 stucco residence.
 Owner—F. Rathjens, 1327 Pacific Ave.,
 San Francisco.
 Architect—Henry C. Smith and A. R.
 Williams, Humboldt Bank Bldg.,
 San Francisco.
 Contractor—Strehlow & LeVole, Cen-
 tral and Webster Sts., Alameda.
 Interior Tile—Malot & Peterson, 3221
 20th St., San Francisco.
 Lumber—McCormick Lumber Ter-
 minal Inc., 1401 Army St., S. F.
 Millwork—Pacific Mfg. Co., 1315 7th
 St., Oakland.

Plans Being Completed.
RESIDENCE Cost, \$12,000
PALO ALTO, Santa Clara Co., Calif.
 One-story and basement frame and
 stucco residence (English style; 8
 rooms, 2 baths; shingle roof, im-
 itation plank floors, hot air gas
 heating).
 Owner—Cleveland Smith.
 Architect—Trelchel & Goodpaster, 1540
 San Pablo Ave., Oakland.
 Bids to be taken in a few days.

Sub-Contracts Awarded.
RESIDENCE Cost, \$12,000
SAN MATEO, San Mateo Co., Cal.
 Baywood Park.
 Two-story and basement frame and
 stucco residence (7 rooms and 3
 baths).
 Owner & Builder—Robert Smith, 1483
 Burlingame Ave., Burlingame.
 Plans by Grimes & Schoening, Bal-
 ovich Bldg., San Mateo.
 Plumbing—J. W. Forsythe, 521 S-
 Humboldt St., San Mateo.
 Millwork—Nelson & Shirkey, 204 E-
 Lane, Burlingame.
 Cement—G. Bragato, 363 N-Eldorado
 St., San Mateo.
 As previously reported, plastering
 awarded to Charles Smith, 666 Mission
 St., San Francisco.

Segregated Figures Being Taken.
RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Calif.
 Two-story and basement frame and
 stucco residence (7 rooms and 2
 baths).
 Owner—Temporarily Withheld.
 Architect—W. J. Wilkinson, 4268 Pied-
 mont Ave., Oakland.

Sub-Contracts Awarded.
RESIDENCES Cost, \$12,140.00
SAN FRANCISCO. Sherwood Forest.
Two 2-story and basement frame and
stucco residences (one 8 rooms, 3
baths; the other, 7 rooms, 2 baths)
Owner and Builder—Lang Realty Co.,
29 Sutter St.
Plans by Frank Nelson, 810 Ullea St.
Cement—Bay Concrete Co., 365 Ocean
Avenue.
Brick—F. Hoffman.

Water Heaters—Hoffman Heater Co.,
747 Bryant St.
Sheet Metal and Heating—Atlas Heat-
ing & Ventilating Co., 557 4th St.
Lathes and Plaster—Lloyd Enmark,
209 Cheney St.
Electrical Work—M. Schimetschek, 626
Hayes Street.

Roofing—United Roofing Co., Ltd., 142
Stillman St.

Millwork and Lumber—Geo. R. Nelson,
2800 3rd St.

Glazing—John Kerr, 44 Grant St.
Glass—W. P. Fuller Co., 301 Mission
Street.

Painting—J. A. Mohr & Son, 433 11th
Street.

Tiles—Albert Cook, 324 Claremont St.
Hardware—G. E. Jackson & Son, 1929
Irving St.

Flooring—Perfection Floor Co.
Window Shades—A. J. Ruhlman, 444
Golden Gate Ave.

Screens & Weather-stripping—Penin-
sula Weatherstrip Co., 1468 Cor-
tez Ave., Burlingame.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7,399
BERKELEY, Alameda Co., Cal. 5506
Carlton Street.

Two-story frame and stucco residence
(7 rooms).
Owner—L. T. Lynch.
Architect—Not Given.

Contractor—Beadell and Lane, 909
Spruce St., Berkeley.

Plastering—Milligan Bros., Regal Rd.,
Oakland.

Painting—Ralph White, 3317 King St.,
Oakland.

Sewer—A. A. Brew & Son, 1050 82nd
Ave., Oakland.

Electric Work—Bashell Elec. Co. Oak-
land.

Roofing—W. S. Colburn, Oakland.
Tile Work—Brochtrup Tile Co., 2819
Shattuck Ave., Oakland.

Built-in Fixtures—Wm. Hookway, 436
60th St., Oakland.

Plans Being Prepared.
RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Cal. SW
Trestle Glen Road and Norwood
Avenue.

Two-story and basement frame and
stucco residence (8 rooms and 2
baths).
Owner—O. E. Nelson.
Architect—Willis Lowe, 354 Hobart St.
Oakland.

Composition roofing, gas furnace.
Plans will be ready for bids in about
one week.

Plans Being Figured.
RESIDENCE Cost, \$15,000
STOCKTON, San Joaquin Co., Calif.
Oxford Manor.

Two-story and basement frame and
stucco residence (9 rooms).
Owner—G. F. Schuler, 1130 E Weber
St., Stockton.

Architect—Jos. Losekann, 1218 West
Harding St., Stockton.

Property Purchased.
RESIDENCES Cost, \$—
SAN FRANCISCO. Vicente St., 30th
and 31st Aves. (Pinelake Park).
One hundred 1-story frame and stucco
residences.

Owner—Residential Development Co.
(W. P. Laufenberg, president), %
Baldwin & Howell, 218 Kenney St.
Architect—Not Given.

Plans Being Figured—Bids Close June
4th.
RESIDENCE Cost, \$18,000
SAN FRANCISCO. Marina District.

Two-story and basement frame and
stucco residence (9 rooms and 4
baths).
Owner—Withheld.

Architect—Chas. Strothoff, 2274 15th
Street.

Plans Being Figured—Bids Close June
4th.
RESIDENCE Cost, \$25,000
SAN FRANCISCO. Marina District.

Two-story and basement frame and
stucco residence (9 rooms and 4
baths).
Owner—Withheld.

Architect—Chas. Strothoff, 2274 15th
Street.

Contract Awarded.
ALTERATIONS Cost, \$4500
OAKLAND, Alameda Co., Cal. Had-
dison Place.

Alterations to two-story frame and
stucco residence.
Owner—H. J. Kaiser.

Architect—W. E. Schirmer, 700 21st
St., Oakland.

Contractor—E. J. Westlund, 625 40th
St., Oakland.

Plans Being Figured.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Calif.
Emory Street.

Two-story and basement frame and
stucco residence (8 rooms and 2
baths; tile roof, hot air heat).
Owner—L. Chavre.

Architect—Chas. S. McKenzie, Twohy
Bldg., San Jose.

Plans Being Figured.
RESIDENCE Cost, \$4900
SAN FRANCISCO. S Bosworth St. 25
E Brompton Ave.

One-story and basement frame and
stucco residence (5 rooms).
Owner—J. Frajck, 645 Bosworth St.,
San Francisco.

Plans by B. K. Dobkowitz, 425 Monte-
rey Blvd., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
ALAMEDA, Alameda Co., Cal. 1842-44
Harvard Drive.

One-story and basement frame and
stucco residence (8 rooms).
Owner—Not Given.

Architect—Not Given.
Contractor—Henry Tweed, 4035 Green-
wood Ave., Oakland.

Millwork—General Mill & Lubr. Co.,
1600 34th St., Oakland.

Plastering—D. Branscum.
Electric Work—Dimond Elec. Co., 2100
Huckins St., Oakland.

Plumbing—J. M. Dale, 372 24th St.,
Oakland.

Preparing Plans.
COTTAGES Cost each, \$5000
SAN JOSE, Santa Clara Co., Calif.
Cherryhurst Tract.

Two 1-story frame and stucco cot-
tages (Spanish style).
Owner—Thos. A. Hershbach, Chery-
hurst Tract, San Jose.

Architect—Withheld.
Owner will buy materials and take
segregated bids.

Contract Awarded.
RESIDENCE Cost, \$5500
MONTEREY, Monterey County, Calif.
Monterey Heights.

One-story and basement frame and
stucco residence (5 rooms; hot air
heating; shakes roof).
Owner—Miss Edna E. McKinley, 926
Harriet St., Monterey.

Architect—A. W. Story, Pajaro Valley
Bank Bldg., Watsonville, and W.
Hastings, 282 Alvarado St.,
Monterey.

Contractor—J. C. Anthony, 275 Pearl
St., Monterey.

Sub-Contracts Awarded.
RESIDENCE Cost, \$9000
PIEDMONT, Alameda Co., Calif. 21
Richardson Way.

Two-story and basement frame and
stucco residence (9 rooms).
Owner and Builder—J. W. Scammell,
924 Scenic Ave., Piedmont.

Architect—Not Given.
Fiat Work—John Devoto, 5268 Lawton,
Oakland.

Lumber—Hogan Lumber Co., Second
and Alice Sts., Oakland.

Millwork—Atkinson Mill & Mfg. Co.,
2985 Chapman St., Oakland.

Rough Hardware—Eudey Bros., 2085
Broadway, Oakland.

Roofing—W. L. Saxby, 4538 Fleming
St., Oakland.

Tile Baths—Superior Tile Co., 3743
Broadway, Oakland.

Stair Work—Sam Coates, 329 E 8th St.
Oakland.

Wrought Iron—F. A. Farrell & Son,
3224 Telegraph Ave., Oakland.

Furnace and S'Pect Metal—J. C. Ow-
ens, 1612 Carlton, Berkeley.

Plastering—Ralph Tyler, 7203 Spencer
St., Oakland.

Electric Wiring—N. C. Hopkins Elec.
Co., 1457 23rd Ave., Fruitvale.

Brick Work—A. Jensen, 6923 Deakin
St., Oakland.

Excavation—Arliss-Knapp Co., 961 41st
St., Oakland.

Bids are wanted on painting, hard-
wood floors, electric fixtures, finish
hardware, linoleum, shade screens,
weather strips, kitchen cases, garden
and sprinklers, sewer.

Contract Awarded.
ALTERATIONS Cost, \$2000
OAKLAND, Alameda Co., Cal. 687
Santa Ray Ave.

Alterations to residence.
Owner—Withheld.
Architect—Not Given.

Contractor—J. W. Scammell, 924
Scenic Ave., Piedmont.

Sub-Bids Wanted.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Calif. East
Forest Hill N Whittle.

One-story and basement frame and
stucco residence (5 rooms).
Owner—Ole Ness, 827 Santa Barbara
Road, Oakland.

Architect—Not Given.
Contractor—J. Ness, 3990 Forest Hill
Ave., Oakland.

Sub-bids are wanted on millwork,
sash and doors and tile work.
Plumbing—Ever Ready Plumbing Co.,
3530 Fruitvale Ave., Oakland.

Electric Work—Dimond Elec. Co., 2100
Hopkins St., Oakland.
Lumber—Zenith Mill & Lumber Co.,
2101 E 14th St., Oakland.

SCHOOLS

Plans Being Figured—Bids Close June
6, 2 P. M.

SCHOOL \$15,000 Available
UKIAH, Mendocino Co., Cal. Redwood
Valley District.

One-story school (4 classrooms and
auditorium) (reinforced concrete walls
and floor).
Owner—Redwood Valley Union School
District.

Architect—William Herbert, Rosen-
berg Bldg., Santa Rosa.

Plans Being Figured—Bids Close June
8th.
SCHOOL ANNEX Cost, \$10,000
BIEBER, Lassen Co., Cal.

Three classroom and gymnasium an-
nex for Bieber High School.
Owner—Lassen County High School
District.

Architect—Ralph D. Taylor, Alturas.
Wood frame, stucco exterior, built-up
roof, frame plastered interior, parti-
tions, steam heating system, coal
and wood furnace, acid proof plum-
ing goods, hardwood plaster interior
finish.

Bids Opened.
SCHOOL ENTRANCE Cost, \$3500
LOS GATOS, Santa Clara Co., Cal.
 Spanish type portico entrance for elementary school (construct concrete stairway and exit doors).
 Owner—Los Gatos Elementary School District.
 Architect—W. H. Weeks, 525 Market St., San Francisco.
 Following is a complete list of bids:
 The Minton Co., 243 Hamilton, Palo Alto \$5,385
 Wm. Meyer, Cupertino..... 5,980
 J. C. Monk, Los Gatos..... 5,999
 J. J. Verwooy, Los Gatos..... 6,101
 R. O. Summers, San Jose..... 6,781
 Neves & Hart, San Jose..... 7,463
 Bids held under advisement.

YOUNTVILLE, Napa Co., Calif.—Paris Bros., Berkeley, at 28c cu. yd. and \$95 cu. yd., for extra excavation, submitted lowest (informal) bid to the State Department of Public Works, Division of Architecture, Sacramento, for grading the site of the Yountville Veterans' Home. Other bidders follow:
 Chas. F. Chittenden..... \$16,650 \$30
 J. F. Knapp 16,650 \$.....
 W. K. McMillan..... 16,975 \$150
 J. V. Galbraith 17,200 \$15
 Harold Smith 17,500 \$1250
 Grandfield, Farrar and Carlin 18,000 \$2000
 Contoules Const. Co..... 19,000 \$3000
 D. McDonald 20,115 \$450
 Willard & Biasotti 23,363 \$30

Sub-Contracts Awarded.
SCHOOL Cost, price, \$37,900
YUBA CITY, Sutter Co., Cal.
 Two-story brick elementary school.
 Owner—Yuba School District, C. P. Taylor, Roy E. Cassidy and Elizabeth Z. Littleton (clerk), trustees of district.
 Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.
 Contractor—Mathews Const. Co., Forum Bldg., Sacramento.

Plumbing, Heating and Sheet Metal—Jack Wood, Yuba City.
Brick Work—Ed. Hunn, Yuba City.
Concrete Work—C. R. Fesler, Yuba City.
Painting—Robinson Paint Co., Marysville.
Lumber, Millwork, Plaster, Sash and Glazing—Diamond Match Co.

Preparing Working Drawings.
ADDITION Cost, \$10,000
OAKLAND, Alameda Co., Calif. Mills College Campus.
 Owner—Mills College, Seminary and Camden, Oakland City.
 Architect—W. H. Ratcliff, Jr., Chamber of Commerce Bldg., Berkeley.
 Plans will be ready for bids in about three weeks.

Plans To Be Prepared.
FINE ARTS BLDG. Cost, \$450,000
FULLMAN, Washington, 15th Ave. NE
 Class A fine arts building.
 Owner—University of Washington.
 Architect—John Graham, Dexter Horton Bldg., Seattle, Wash.

Plans Being Figured—Bids Close June 5th, 8 P. M.
ALTERATIONS Cost, \$3000
ALBANY, Alameda Co., Cal. 602 Pomona Avenue.
 Alterations to high school (changes in windows, metal stairway, remodel three bungalows).
 Owner—Albany School District (L. J. Fletcher, Sect'y., Albany).
 Architect—P. L. Dragon, Mercantile Bank Bldg., Berkeley.
 Deposit of \$5.00 required for plans and specifications.

Completing Plans.
HEATING PLANT Cost, \$100,00
VISALLA, Tulare Co., Cal.
 Remodeling main school building and installing heating plant.

Owner—Visalia Union High School District.
 Architect—E. J. Kump, Fresno.
 To Take Bids Within Few Days.
RENOVATE SCHOOL Cost, \$15,000
MARTINEZ, Contra Costa Co., Calif. Alhambra School.
 Renovate high school (painting, and plastering, addition to heating system; 2-story concrete building).
 Owner—Alhambra Union High School District.
 Architect—W. H. Weeks, 525 Market St., San Francisco.

Preparing Working Drawings.
LIBRARY Cost, \$117,000
CHICO, Butte Co., Cal. State Teachers' College.
 One- and two-room library and classroom building (20,000 sq. ft.)
 Owner—State of California.
 Architect—Chester Cole, 1st National Bank Bldg., Chico.
 Brick construction, concrete floors, concrete pile foundation, terra cotta, tile roof.
 Plans will be ready for bids in about thirty days.

Contract Awarded.
STORE Cont. price, \$17,532
PACIFIC GROVE, Monterey Co., Cal.
 One-story and mezzanine floor reinforced concrete department store.
 Owner—Rose Bros., Pacific Grove.
 Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville, and W. Hastings, 282 Alvarado St., Monterey.
 Contractor—Ralph Sharpe, Pacific Grove.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$17,000
SAN FRANCISCO, Post and Montgomery Streets.
 Alterations to pent house, etc.
 Owner—Crocker First National Bank, Post and Montgomery Sts.
 Engineer—T. Ronneberg, Crocker Bldg.
 Contractor—Dinwiddie Const. Company, Crocker Bldg.
Plumbing—Higgins & Kraus, 711 Tehama Street.
Plastering—Hermann Bosch, 449 Fulton Street.

As previously reported, structural steel awarded to Moore Drydock Co., Balfour Bldg.; reinforcing steel to Soule Steel Co., Rialto Bldg.; elevators to Spencer Elevator Co., 166 7th Street.

Plans Being Figured—Bids Close June 3rd.
STORE Cost, \$6000
CHICO, Butte Co., Cal. Third Street bet. Main and Broadway.
 One-story reinforced concrete store.
 Owner—J. H. Morrison.
 Architect—Cole & Brouhard, 1st National Bank Bldg., Chico.

Bids Opened
SCHOOL Cost, \$75,000
CARMEL, Monterey Co., Cal.
 One-story frame and stucco grammar school.
 Owner—Sunset School District.
 Architect—Swartz & Ryland, Spazier Bldg., Monterey.
 (1) Carpentry; (2) Excavating; (3) Concrete; (4) Reinf. Steel
 Mr. J. Murphy, Carmel (1) \$7400; (2) \$756; (3) \$6563; (4) \$1000.
 Mees & Briggs, Burlingame (1) \$9976; (2) \$1475; (3) \$6565; (4) \$938.
 W. J. Ochs, San Jose (1) \$10,255; (2) \$2249; (3) \$5551; (4) \$1132.
Structural Steel—Minneapolis Steel Co., Sharon Bldg., S. F. \$3448
 Herrick Iron Works, Oakland 3464
 Schrader Iron Works, S. F. 4660
Steel Joists—Truscon Steel Co., Call Bldg., San Francisco..... \$1389
 Bids held under advisement.
 Bids on other portions of the work will be called for shortly.

Preparing Working Drawings.
SCHOOL & GYM Cost, \$150,000
ELDRIDGE, Sonoma Co., Calif. Sonoma State Home.
 One-story reinforced concrete extension to school and gymnasium and new ward building.
 Owner—State of California.
 Architect—Powers & Ahnden, 605 Market St., San Francisco.
 Plans to be ready for bids about July 1.

Plans Being Figured—Bids Close June 17th, 7:30 P. M.
SCHOOL Cost, \$60,000
STOCKTON, San Joaquin Co., Calif. Channel and Pilgrim Sts.
 Two-story brick vocational school (10 classrooms; 60x144-ft.)
 Owner—Stockton City School District.
 Architect—J. U. Clowdsley, Exchange Bldg., Stockton and Jos. Losekann 1218 W. Harding St., Stockton, associated.
 Steel floor joists, wood stud partitions, steam heating system, built-up roof.

Contract Awarded.
LIBRARY Cost, \$175,000
CLAREMONT, Los Angeles Co., Cal.
 Reinforced concrete library building (Italian pan the roof).
 Owner—Pomona and Scripps Colleges, Claremont.
 Architect—Gordon E. Kaufmann, 610 Union Bank Bldg., Los Angeles.
 Contractor—Wurstler Constr. Co., 307 Architects Bldg., Los Angeles.

Plans Being Figured—Bids Close June 11, 7 P. M.
GYMNASIUM Cost, \$25,000
OROVILLE, Butte Co., Calif.
 One-story stucco frame and reinforced concrete gymnasium.
 Owner—Oroville Union High School District.
 Architect—N. W. Sexton, deYoung Bldg., San Francisco.
 Certified check 10% payable to the Board of Trustees of the Oroville Union High School District. Plans obtainable from architect on deposit of \$15, returnable.

Plans Being Figured—Bids Close June 9, 8 P. M.
SCHOOL Cost, \$9000
RICHMOND, Contra Costa Co., Cal.
 One-story and basement (2 classrooms) frame and stucco school.
 Owner—Sheldon School District.
 Architect—James T. Narbett, 474 31st St., Richmond.
 Certified check 10% payable to P. L. Castro, clerk of district, required with bid. Plans obtainable from the architect on deposit of \$5, returnable.

To Ask Bids In Few Days.
SCHOOL Cost, \$30,000
SAN FRANCISCO, Sixteenth and Dolores Streets.
 Two-story and basement reinforced concrete and steel frame parochial school.
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Engineer—L. H. Nishkian, 525 Market St., San Francisco.
 Mechanical Engineers—Leland & Haley, 58 Sutter St., San Francisco.
 Will be known as Mission Dolores School. Father John Sullivan is pastor of the Mission Dolores Church.

BANKS, STORES & OFFICES

Plans Being Figured.
BANK FIXTURES Cost, \$5000
OAKLAND, Alameda Co., Cal. Broadway.
 Bank fixtures for building.
 Owner—Morris Plan.
 Architect—Willis Lowe, 354 Hobart St., Oakland.

Preliminary Plans Completed.

OFFICES Cost, \$100,000
OAKLAND, Alameda Co., Cal. Up-
town shopping district.
Six-story and basement steel frame
and concrete building.
Owner—Withheld.
Architect—Chas. McCull, 1404 Frank-
lin St., Oakland.

Plans Being Completed.

STORE Cost, \$—
OAKLAND, Alameda Co., Calif.
One-story reinforced concrete and
steel frame store (8 stores).
Owner—Withheld.
Architect—Chas. McCull, 1404 Frank-
lin St., Oakland.
Bids will be taken in about 2 weeks.

Contract Awarded.

STORE Cot, \$10,000
MELROSE, Alameda Co., Cal.
Remodel tank for store.
Owner—Bank of America.
Architect—H. A. Minton, Bank of
America Bldg., San Francisco.
Contractor—David Nordstrom, 15 Nace
St., Oakland.

Segregated Bids Being Taken.

ROADHOUSE Cost, \$6500
MT. VIEW, Santa Clara Co., Cal.
One-story frame roadhouse (landscape
work, etc.)
Owner—Withheld.
Plans by G. G. Shimamoto, 1551 La-
guna St., San Francisco.

Contract Awarded.

MARKET Cost, \$20,000
NORTH BERKELEY, Alameda Co.,
Cal. Solano Avenue.
One-story brick drive-in market with
tile roof.
Owner—R. O. Long, 2122 Shattuck
Ave., Berkeley.
Architect—Paul Dragon, Mercan-
tile Bank Bldg., Berkeley.
Contractor—W. E. Lyons, 354 Hobart
St., Oakland.
Plate glass show windows, etc.

Sub-Contracts Awarded.

ALTERATIONS Cost, \$17,000
SAN FRANCISCO. Post and Mont-
gomery Streets.
Alterations to pent house, etc.
Owner—Crocker First National Bank,
Post and Montgomery Sts.
Engineer—T. Ronneberg, Crocker Bldg.
Contractor—Dinwiddie Const. Com-
pany, Crocker Bldg.
Marble—Vermont Marble Co., 244
Brannan St.
Tile—Malott & Peterson, 3221 20th St.
As previously reported, structural
steel awarded to Moore Drydock Co.,
Balfour Bldg.; reinforcing steel to
Soule Steel Co., Hlalto Bldg.; elevators
to Spencer Elevator Co., 166 7th
St.; plumbing to Higgins & Kraus, 741
Tehama St.; plastering to Hermann
Bosch, 449 Fulton St.

Additional Sub-Contracts Awarded.

ALTERATIONS Cost, \$35,000
SAN FRANCISCO. Stockton and
O'Farrell Streets.
Alterations to two-story and mezza-
nine floor store (Class C construc-
tion; reinforcing steel in building
to be re-used).
Owner—Imperial Realty Corp.
Architect—G. Albert Lansburgh, 140
Montgomery St., San Francisco.
Contractor—Barrett & Hilt, 918 Har-
rison St., San Francisco.
Elevators—Spencer Elevator Co., 166
Seventh St., San Francisco.
Electric Work—Victor Lemoge, 281
Natoma St., San Francisco.
As previously reported, structural
steel awarded to Wettern Iron Works,
141 Beale St., S. F.; glass to Habenhack
& Howlett, 529 Clay St., S. F.

Sub-bids are wanted on plumbing,
heating, sheet metal, roofing and mill
work.

Sub-Bids Being Taken.

ALTERATIONS Cost, \$30,000
SAN FRANCISCO. No. 214-18 Post
Street.
Alterations to five-story concrete
building with terra cotta front.
Owner—Eastman Kodak Co., 545 Mar-
ket St., San Francisco.
Architect—Bliss & Fairweather, Bal-
bala Bldg., San Francisco.
Contractor—Barrett & Hilt, 918 Har-
rison St., San Francisco.
Sub-bids are wanted on all portions
of the work.

Sub-Contracts Awarded.

ALTERATIONS Cost, \$17,000
SAN FRANCISCO. Post and Mont-
gomery Streets.
Alterations to pent house, etc.
Owner—Crocker First National Bank,
Post and Montgomery Sts.
Engineer—T. Ronneberg, Crocker Bldg.
Contractor—Dinwiddie Const. Com-
pany, Crocker Bldg.
Structural Steel—Moore Drydock Co.,
Balfour Bldg.
Reinforcing Steel—Soule Steel Co., Ri-
alto Bldg.
Elevators—Spencer Elevator Co., 166
Seventh Street.

Sub-Contracts Awarded.

ALTERATIONS Cost, \$11,863
SAN JOSE, Santa Clara Co., Cal. S
First St. near San Carlos St.
Alterations and additions to present
one- and two-story stores (brick
walls and wood interior).
Owner—Hale Bros. Co.
Architect—Binder & Curtis, 35 W San
Carlos St., San Jose.
Contractor—Henry Bridges, 1398 Lin-
coln, San Jose.
Electric Work—Schutte Brothers, 37
Fountain St., San Jose.
Millwork—Pacific Mfg. Co., 2610 The
Alameda, San Jose.
Lumber—Southern Lumber Co., 1402
S 1st St., San Jose.
Painting—C. W. Lynds, 1836 Park Ave.
San Jose.
Plumbing—Mark Cox, 1091 Carolyn,
San Jose.
Plastering—W. G. Newman, 1423 Glen
Una, San Jose.
Glass—Cobbledick-Kibbe, 1271 Cherry
St., San Jose.
Structural Steel—R. Hellwig, 577 W
Santa Clara St., San Jose.
Roof Work—Eush Roofing Co., Saint
Claire Bldg., San Jose.
Brick Work—Frank Filben, 1140 Mar-
tin, San Jose.
Concrete Work—J. C. Bateman, 585
Hedding, San Jose.

Plans Being Prepared.

MARKET Cost approx. \$75,000
SAN FRANCISCO. S Market St. bet.
4th and 5th Sts.
Remodel store for market.
Owner—Shapiro Bros., 945 Market St.
Architect—Dodge Riedy, Pacific Bldg.

THEATRES

Completing Plans.
THEATRE Cost, \$250,000
LOS ANGELES, Cal. Florence and
Compton Aves.
Reinforced concrete and stucco thea-
tre (auditorium seating 2000).
Owner—Fox West Coast Theatres.
Architect—S. Charles Lee, 2404 W.
Seventh St., Los Angeles.

Preparing Plans.

THEATRE Cost, \$150,000
BEVERLY HILLS, Los Angeles Co.,
Calif.
Reinforced concrete open air theatre.
Owner—Passion Pantheon, Ltd.
Architect—Don Ehl, California Bank
Bldg., Beverly Hills.

Contract Awarded.

THEATRE Cost, \$65,000
PALO ALTO, Santa Clara Co., Cal.

University Ave. near Cowper St.
(62½x150 feet).
Two-story concrete theatre and store
to (seat 1000; Gothic type).
Owner—United Artist Theatres of
Calif., Jos. M. Schenck, vice-pres-
ident, 1966 S-Vermont St., Los An-
geles.
Architect—Walker & Eisen and C. A.
Balch, Western Pacific Bldg., Los
Angeles.
Contractor—Henry I. Beller Constr.
Co., 6513 Hollywood Blvd., L. A.
Monolithic concrete exterior finish;
hot air heating system, gas furnace,
composition roof.

Contract Awarded.

THEATRE Cost, \$150,000
RICHMOND, Contra Costa Co., Cal.
S. Macdonald Ave., bet. Seventh
and Eighth Streets.
Class A concrete theatre (to seat 1200)
Owner—United Artists of California,
1966 S. Vermont St., Los Angeles,
(Lewis Anger in charge).
Architect—Walker & Eisen and C. A.
Balch, Western Pacific Bldg., Los
Angeles.
Contractor—Henry I. Beller Construc-
tion Co., 6513 Hollywood Blvd.,
Los Angeles.

Plans Being Prepared.

THEATRE Cost, \$60,000
VALLEJO, Solano Co., Cal.
Two-story Class A reinforced concrete
theatre and store.
Owner—United Artists Corp., Los An-
geles.
Architect—Walker & Eisen and C. A.
Balch, Western Pacific Bldg., Los
Angeles.
Monolithic concrete exterior finish,
concrete and wood floors, wood, metal
lath and plaster interior partitions,
composition roofing, hot air heating
system and gas furnace.

Completing Plans.

THEATRE Cost, \$80,000
BERKELEY, Alameda Co., Cal. Shat-
tuck Ave. and Bancroft Way.
Two-story Class A reinforced concrete
theatre and store (to seat 900).
Owner—United Artists Theatres of
California (Jos. M. Schenck, vice-
president), 1966 S-Vermont St.,
Los Angeles.
Architect—Walker & Eisen and C. A.
Balch, Western Pacific Bldg., Los
Angeles.
Monolithic concrete exterior finish,
wood interior partitions, composition
roofing, concrete and wood floors, hot
air heating system, gas furnace.

Plans Completed.

THEATRE Cost, \$125,000
SAN JOSE, Santa Clara Co., Cal. NE
First and San Salvador Sts.
Two-story Class A reinforced concrete
theatre and store building.
Owner—Mrs. Norman M. Parrott and
Morey B. Fleming.
Lessee—United Artists Corp., 1966 S.
Vermont St., Los Angeles.
Architect—Walker & Eisen, 1031 South
Broadway, Los Angeles.
Monolithic concrete exterior finish,
steel studs, metal lath and plaster in-
terior partitions, concrete and com-
position roofing, concrete floors, hot
air heating system, gas furnace.

Bids Opened—Held Under Advice
THEATRE Cost, \$500,000
ALAMEDA, Alameda Co., Cal. North
Central Ave. W Park St.

Structural steel frame and reinforced
concrete theatre (to seat 2200; 126
by 210 ft.)

Owner—Alameda Amusement Co.
Architect—Miller & Pflueger, 580 Mar-
ket St., San Francisco.

Announcement will be made within
a week.

Electrical Contract Awarded.
ALTERATIONS Cost, \$50,000
OAKLAND, Alameda Co., Calif. 445
 Twenty-third Avenue.
 Alterations to class C steel frame and
 concrete theatre (wood joists).
 Owner—Golden State Theatre & Real-
 ty Co., 25 Taylor St., San Fran-
 cisco.
 Architect—Reid Bros., 105 Montgom-
 ery St., San Francisco.
 Contractor—A. J. Hopper, 1769 Pleas-
 ant Valley Road, Piedmont.
Electrical Work—Matson - Seabrooke
 Co., 4115 Broadway, Oakland.
 Heating, painting and decorating
 contracts will be awarded within one
 week by architect. Other sub-contracts
 previously reported.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$25,000
WATSONVILLE, Santa Cruz Co., Cal.
 Remodel theatre.
 Owner—Fox California Theatre,
 (Douglas Graham, Mgr.), Watson-
 ville.

Private plans.
 Contractor—Alfred J. Hopper, 1769
 Pleasant Valley Ave., Piedmont.
Plastering—John Hallstrom, 1049
 Meredith Ave., San Jose.
Painting—M. Santocoro, 59 Monte-
 rey Blvd., San Francisco.
Heating and Ventilating—National
 Theatre Supply Co., 121 Golden
 Gate Ave., San Francisco.
 Work will involve complete remodel-
 ing and redecorating in addition to a
 Neon marquee, Spanish type organ
 loft, carpets, drapes and new seating.

WHARVES AND DOCKS

SAN FRANCISCO—Following bids
 received by State Board of Harbor
 Commissioners for roofing shed on
 Pier No. 39, involving approximately
 300 squares:
 J. W. Bender Roofing Co., 18th and
 Bryant St. \$4.89
 Malott & Peterson 4.93
 United Roofing Co. 4.94
 Alta Roofing Co. 5.11
 R. S. Smith 5.44
 Phoenix Siltmpton Co. 5.44
 Jones Bros. Asbestor Roofing Co. 5.50
 Bids held under advisement.

May 22, 1931

Plans To Be Prepared.
PIER EXTENSIONS Cost, \$—
SAN FRANCISCO. Piers 42 and 44
 Extension to Pier 42 (approximately
 115 ft. each).
 Owner—State of California (Harbor
 Commission), Ferry Bldg., S. F.
 Engineer—Frank White, Ferry Bldg.,
 San Francisco.

OAKLAND, Cal.—M. B. McGowan,
 Cal. Bldg. San Francisco, awarded
 contract by Pacific Coast Aggregates
 Co. to cast 369 reinforced concrete pile
 followers, each 10 feet long, to be used
 in connection with foundations for
 Warehouse C on the Oakland water-
 front for the City Port Commission.
 Duncanson-Harrison Co., San Fran-
 cisco, are the general contractors on
 the foundation work.

**MISCELLANEOUS
 CONSTRUCTION**

Plans Being Prepared.
ROADHOUSE Cost, \$6500
MT. VIEW, Santa Clara Co., Cal.
 One-story frame roadhouse (landscape
 work, etc.)
 Owner—Withheld.
 Plans by G. G. Shimamoto, 1551 La-
 guna St., San Francisco.

SAN FRANCISCO.—Meyer Rosen-
 berg, 1755 San Bruno Ave., awarded
 contract by Roman Catholic Arch-
 bishop, 1100 Franklin St., for grading

of the proposed College for Women
 near Turk St. and Masonic Ave. H.
 A. Minton, architect, Bank of Italy
 Bldg. The contract involves approxi-
 mately 173,000 cu. yds. of rock and
 sand excavation.

Plans Being Prepared.
GAMBLING RESORT Cost, \$—
RENO, Nevada. Block bounded by
 Center, Pine, State Sts. and
 Powning Park.
 Remodel residence for gambling cas-
 ino and pleasure resort.
 Owner—E. Dodge (attorney), Reno.
 Lessee—Ray Smith, Reno.
 Architect—George Koster, Arcade
 Bldg., Reno.
 Following the completion of this
 work it is the intention of the owner
 to erect a modern hotel, a cabaret and
 other pleasure structures on the
 property.

Contract Awarded.
LABORATORY Cost, \$150,000
PASADENA, Los Angeles Co., Calif.
 E. California Street.
 Reinforced concrete and stucco bldg.
 Owner—California Institute of Techn-
 ology.
 Architect—Mayas, Murray & Phillips,
 Bertram G. Goodhue, 2 W 47th St.,
 New York City.
 Contractor—Wm. C. Crowell, 495 So.
 Broadway, Pasadena.

**SAN FERNANDO, Los Angeles Co.,
 Cal.**—National Flying Service, Ltd.,
 Herbert G. Goodhue, 2 W 47th St.,
 New York City, president, Lankorshim
 Blvd., north of Victory Blvd., con-
 templates erecting a hangar, repair
 shop and administration building on
 a thirteen-acre tract in the San Fer-
 nando Valley.

BERKELEY, Alameda Co., Calif.—
 Pacific Coast Aggregates, Inc., Broad-
 way and Water Sts., Oakland; Contra
 Costa Building Materials Co., 898 Gil-
 more St., Berkeley, and J. A. Davies,
 102 El Camino, Berkeley, submitted
 identical bids to the city council to
 furnish sand as may be required by
 the city during the fiscal year com-
 mencing July 1, 1931. The bids fol-
 lowing: A-1, \$1.20; 1-M, \$1.75; 4-M, \$1.75;
 N-T, \$1.35. Delivered Alston Way and
 West St.
 Arrowhead Gravel Co., San Jose, bid
 \$1.35 on N-T.
 Bids taken under advisement.

BERKELEY, Alameda Co., Calif.—
 Following bids received by city coun-
 cil to furnish rock and screenings as
 may be required for the fiscal year
 commencing July 1, 1931:
 Pacific Coast Aggregates, Inc.,
 Broadway and Water Sts., Oakland,
 \$1.25 per ton for rock and screenings,
 f.o.b. Corporation Yard.
 Oakland Building Materials Co., 5000
 Broadway, \$1.72 per cu. yd. for rock,
 3/4-in. to 3/8-in. screen with alt. for
 birds-eye screen, \$1.76 cu. yd. f.o.b.
 company quarry.

**REDWOOD CITY, San Mateo Co.,
 Cal.**—Until June 1, 3 P. M., bids will
 be received by B. E. Myers, city clerk,
 to furnish and install traffic signal and
 control system at intersection of El
 Camino Real with Main St., Woodside
 Road and Redwood Ave., commonly
 known as "Five Points." Certified
 check 10% payable to city required
 with bid. Specifications on file in of-
 fice of city clerk.

Se-gregated Figures Being Taken.
BARN Cost, \$20,000
EAST OAKLAND, Alameda Co., Cal.
 One-story frame and stucco barn
 (horses and stock).
 Owner—Withheld.
 Architect—W. J. Wilkinson, 4268 Pied-
 mont Ave., Oakland.

Preliminary Plans Being Prepared.
RACING COURSE Cost, \$1,000,000
**NEAR REDWOOD CITY, San Mateo
 Co., Cal.** On Woodside Road, one-
 half mile below "Five Points."
 Clubhouse, administration building and
 grandstand, all of Mission type of
 construction; horse racing course;
 polo grounds, etc.
 Owner—Fair Oaks Racing & Polo Club
 represented by Gene Normile, et al,
 St. Francis Hotel, San Fran-
 cisco.
 Architect—Austin Moore (Willis Polk
 & Co.), 277 Pine St., San Francisco

Completing Plans.
REMODELING Cost, \$50,000
PALO ALTO, Santa Clara Co., Calif.
 Stanford Campus.
 Remodeling Stanford stadium (replace
 wooden stairs with concrete; addi-
 tional toilet facilities).
 Owner—Stanford University, Palo Alto
 Engineer—Shirley Baker, 53 Sutter St.,
 San Francisco.
 Bids will be taken in about 10 days.

Segregated Figures Being Taken.
ALTERATIONS Cost, \$30,000
SAN LEANDRO, Alameda Co., Cal.
 Alterations and additions to two-story
 and basement frame and stucco
 undertaking establishment.
 Owner—Temporarily Withheld.
 Architect—W. J. Wilkinson, 4268 Pied-
 mont Ave., Oakland.

SAN QUENTIN, Marin Co., Calif.—
 Schrader Iron Works, 1247 Harrison
 St., San Francisco, at \$6,985 awarded
 contract by State Purchasing Depart-
 ment, Sacramento, for structural steel
 for new laundry building at San Quen-
 tin.

Following is a complete list of bids:
 Schrader Iron Works, S. F. \$6,985
 Michel & Pfeffer Iron Works,
 San Francisco 7,273
 Mortensen Const. Co., S. F. 7,295
 Monarch Iron Works, S. F. 7,475
 Judson Pacific Co., S. F. 7,900

BERKELEY, Alameda Co., Calif.—
 Until June 2, 10 A. M., bids will be
 received by Florence E. Turner, city
 clerk, to furnish cement in carload
 lots, f.o.b. Corporation Yard, Allston
 Way and West St., during the fiscal
 year commencing July 1, 1931. Cert.
 check \$100 required with bid. Spec.
 obtainable from clerk.

Plans Being Prepared.
BUILDING Cost, \$5000
ALBANY, Alameda Co., Calif. San
 Pablo Avenue.
 One-story frame and stucco dining
 hall (40x60-ft.)
 Owner—Withheld.
 Architect—Brown, American
 Bldg., Oakland.

STOCKTON, San Joaquin Co., Cal.
 —Standard Fence Co., 432 Bryant St.,
 San Francisco, at \$1,569.33 submitted
 lowest bid to city clerk to construct a
 chain link protection fence at Ameri-
 can Legion Park.
 Following is a complete list of bids:
 Standard Fence Co., S. F. \$1,569
 Turner Hardware & Implement
 Co., Stockton 1,604
 Camlin Fence Co., S. F. 1,675
 Geo. C. Smith, Stockton 1,897
 Anchor Post Fence Co., S. F. 1,903
 E. R. Jamieson Co., S. F. 1,995
 Meyers - Barnett Hardware Co.,
 Stockton 2,023
 California Wire Cloth Co., S. F. 2,100
 Bids held under advisement until
 June 1.

SAN FRANCISCO.—Mission Con-
 crete Co., 270 Turk St., at \$115,432
 awarded contract by Board of Public
 Works to construct Sloat Boulevard
 Viaduct in connection with the Sun-
 set Blvd. Project. Complete list of

unit and total bids received on this project published in issues of May 22 and 25.

BUSINESS OPPORTUNITIES

Names and addresses of persons or firms concerned in the following opportunities will be furnished on request to Business Opportunity Department, Daily Pacific Builder, 547 Mission St., San Francisco or Phone Garfield 8744:

21075—Paints. San Francisco. Belgian manufacturer of white and colored enamel paints wishes connections for the sale of his products on the Pacific Coast.

21077—Mechanisms. San Francisco. French manufacturer of a complete line of large and small mechanisms seeks an agent in San Francisco.

21080—Representation. Vienna, Austria. Firm wishes to be appointed as representative of some American motor oil manufacturer or handler, whose products they could handle in Austria.

21081—Chain and Rolled Wire. San Francisco. Manufacturer of chain and rolled wire in Prague, Czechoslovakia, is seeking representation in San Francisco.

Cdenkirk Manufacturing Co., 214 Hippodrome Bldg., Cleveland, Ohio, is interested in securing concern interested in taking on the manufacture of an improved switch stand on a royalty basis.

Saul J. Baron Corp., 116 Forsyth St. New York City, manufacturers and distributors of various commodities for the soda fountain trade, restaurants, cafeterias and food concessions, is desirous of making contact with such concerns as are especially interested in reaching the New York market.

Leon F. Bink, General Delivery, Medford, Oregon, traveling in automobile wishes to contact manufacturer in this city who would be interested in having their merchandise represented in Northwestern territory.

B. O. Schmalzing, General Manager, Aurora Metal Cabinet Co. Aurora, Ill., manufacturers of steel letter files, storage cabinets, blue-print cases, transfer cases, typewriter tables wishes to contact reliable steel furniture dealers on the West Coast to distribute their line of equipment.

D-3583, Manufacturers' Service Co., Houston, Texas, manufacturers agents wish to contact local firms with view to representing them in South.

J. Jirak, 299 Madison Ave., New York City, is desirous of establishing contact with some manufacturer in San Francisco, or elsewhere on the Pacific Coast, who is seeking distribution for his product in the East.

Frank N. Shaffer, The Chamber of Commerce of Pittsburgh, Pittsburgh, Pa., represents manufacturer of high grade portable electric tool, wishes to establish sales agency in this city.

F. E. Stocking, California Distributor of "Jiffy Couplings," 85 S. Craig Ave., Pasadena, Calif., desires to contact with three salesmen who have experience in selling the hardware trade in San Francisco, Oakland and Fresno territories.

Our friend, Frederic W. Sanford, secretary-manager of the Orange County Builders' Exchange, in the current issue of his exchange bulletin cites ten reasons for the existence of a Builders' Exchange.

One reason is: "To eliminate the dishonest, unscrupulous and incapable factors who discredit the standing of the industry."

Eliminate the other nine reasons. If a Builders' Exchange can rid the industry of the thousands of undesirable now "stealing" a living from it—we should have such an organization in every community in the state.

LEGAL ASPECT OF DETERMINING WHAT IS LOCAL STANDARD WAGE

The Facts and the Question: A contractor has entered into a contract with a county for the construction of a court house. The specifications provide that the contractor shall pay "standard wages." The contractor works under open shop conditions. The carpenters have insisted that the contractor should pay the union scale of wages which is higher than the prevailing wages paid open shop carpenters. The question is asked whether there are any decisions as to the meaning of the "standard wage."

Discussion: A careful search has revealed no decisions in which the words "standard wage" have been defined by the courts. The word "standard" has been considered by courts in various connections. In the case of Penn. Steel Casting & Machine Co. v. Wilmington Malleable & Co., 41 A. (Del.) 236, 235, the court said:

"A standard *ex vi termini* (by force of the term) implies a measure of the test which has the general concurrence and recognition of the class of persons engaged in the particular business or trade under consideration."

In the case of University v. Folk, Etc. Co., 87 Iowa 36, 43, the court held that the phrase "standard wage" was elastic and must be construed in view of the surroundings of the parties when they entered into the contract.

These decisions but follow the general rule, that, in the interpretation of contracts, the cardinal purpose of a court is to arrive at the intention of the parties. It is a familiar rule of law that all courts, in the consideration of a contract, endeavor to ascertain first what was the agreement of the parties and then to enforce such agreement. If what the parties intended and agreed upon is clearly expressed and can be ascertained from the contract itself, outside facts or

parole evidence will not be considered, but if there is an ambiguity or doubt as to what the agreement of the parties really was then the court will consider other facts, including the circumstances surrounding the parties at the time the contract was made in an effort to ascertain what the parties meant when they used certain words in the contract.

Applying these rules, it would appear that if there is anything in the other parts of the contract indicating that the words "standard wages" meant union wage scale, then the contractor would be obliged to pay that wage. If, on the other hand, there is nothing in the contract indicating such an intention, or the contract, for example, clearly gives the contractor the right to perform the contract with non-union labor, there would seem but little reason to require the standard wage to be held to be the union wage scale, but the standard wage would seem to be the prevailing wage for similar services in the community where the work was to be performed.

Of course, if the union wage scale was the prevailing wage scale of that community, it would become the standard wage under the contract not because it is a union wage scale but because it is the standard wage of the community. If there is nothing in the contract to indicate what the parties meant by the use of this term, but there was clear evidence that both parties intended that the same meant the union wage scale, then it would seem that the standard wage, as used in the contract, was the same as the union wage scale, but if there was not such a clear intention upon the part of both parties to the contract, it would seem difficult to require the contractor to pay the union wage scale unless, as above stated, it was the prevailing wage for similar services in the community where the work was to be performed.

AMERICAN ROLLING MILL COMPANY MARKETING NEW METAL CRIBBING FOR RETAINING WALL CONSTRUCTION

The American Rolling Mill Company of Middletown, Ohio, has announced another new use for sheet-metal—Armo Ingot Iron Cribbing for retaining walls.

The new metal cribbing is of a simple yet effective design. The wall is built up from standard formed galvanized sections, either six or eight feet in length, and held together by a sturdy interlocking device. Exhaustive experimental tests have been made for compression, shearing and bending of the units, both separately and when locked together.

From the engineering standpoint there are numerous advantages. First is economy of installation, as well as greater speed. The wall is in service as soon as installed, without waiting an interval for curing. The units are but one-fourth the weight of other retention designs. This reduces transportation costs, and reduces the factor of expense in handling. It also eliminates the necessity for special handling equipment. The wall may be erected by unskilled labor.

The sturdy metal units may be dropped without fear of breaking or chipping. Being non-porous, they do not assimilate water and do not spall under freezing and thawing conditions as do some installations. Neither does settlement of the foundation soil crack the cribbing wall, when properly erected. Because the units are

light in weight, they can be placed on foundation soils which would require a pile or caisson sub-foundation if a heavy mass wall were constructed.

Another utilitarian quality of the new design is its flexibility. The metal cribbing can be dismantled and relocated without the loss of a single unit. The height of the wall can also be increased if it is necessary to raise the grade. The face of the wall need not be a straight line for it can be curved if desired.

Metal cribbing will be exceptionally useful for emergency installations. The standard sections can be stocked and their lighter weight will permit rapid transportation, handling, and installation when washouts or slides occur.

Where closed face walls are desired, the engineers have designed galvanized metal filler plates which fits in between the units, and prevents the backfill from filtering through.

The new cribbing will be used for railroad and highway retaining walls, for bridge wingwalls, and for river and harbor bank protection work. Another type of installation where it will prove extremely helpful is for underwater crib foundations, for large sections to be bolted together before submerging.

Distribution is in the hands of the Ingot Iron Railway Products Company of Middletown, Ohio.

Engineering News Section

BRIDGES

MENDOCINO COUNTY, Cal.—Until June 17, 2 P. M., bids will be received by State Highway Commission to construct bridge across the Russian River about 2 miles south of Ukiah, consisting of two 125-ft. timber truss spans and eight 19-ft. timber trestle spans and of grading and surfacing with bituminous treated crushed stone or gravel, 170-ft. of roadway approach.

CLARK COUNTY, Nevada.—Dodge Bros., Fallon, Nev., at \$115,221 awarded contract by State Highway Commission to construct reinforced concrete bridge approximately 1000 feet long, including approaches, over the Virgin river at a point between Mesquite and Bankerville. Project involves:

- (1) 2000 cu. yds. roadway excav.
 - (2) 8200 cu. yds. structure excav.
 - (3) 75,604 yds. sta. overhaul.
 - (4) 1260 cu. yds. class A concrete in place.
 - (5) 1775 cu. yds. class D concrete in place.
 - (6) 1 corr. metal pipe culvert extension in place.
 - (7) 1504 lin. ft. standard timber guard rail in place.
 - (8) 8 monuments in place.
 - (9) 2 furnish and install posts for F. A. markers.
 - (10) 0.35 mile finishing roadway.
 - (11) 490,700 lbs. reinf. steel in place.
 - (12) 11,600 lbs. expansion rockers and plates in place.
 - (13) 7053 lin. ft. furnish timber piles.
 - (14) 5020 lin. ft. driving timber piles.
- Other tidders were: Utah Const. Co., \$138,995; Gibbons & Reed, Burbank, Calif., \$141,016; engineer's estimate, \$115,515. A complete tabulation of the bids received will be published shortly.

SACRAMENTO, Cal.—Until June 8, 10 A. M., bids will be received by H. W. Hall, county clerk, to construct a reinforced concrete bridge over Linda Creek, southeast of Rio Linda on the Dry Creek road. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from Charles Deterding, county engineer.

WOODLAND, Yolo Co., Cal.—County supervisors contemplate re-planning to the Knights Landing Bridge across the Sacramento river. Surveys are now being made.

SAN JOSE, Santa Clara Co., Cal.—Thermotte Constr. Co., 530 Stockton Ave., San Jose, at \$12,978 submitted low bid to city council to construct reinforced concrete bridge over Guadalupe river at Home and West Virginia Sts. Project involves 425 cu. yds. concrete. Following is a complete list of bids received:

Thermotte Const. Co., San Jose.....	\$12,978
Neves & Harp, Santa Clara.....	\$14,483
L. C. Clark and Chas. Dougherty, Visalia.....	14,984
George Owens, San Jose.....	15,790
J. B. Carlson, San Jose.....	16,153
O. R. Summers, San Jose.....	16,193
John Doyle, San Jose.....	16,742
Chas. C. Collins and Wm. Martin, San Francisco.....	17,050
Sullivan & Sullivan, Oakland.....	17,898

June 1.
Low bid held under advisement until!

SAN JOSE, Santa Clara Co., Cal.—City Engineer Wm. Popp making surveys for bridge at either San Augustine street, Fox avenue or Hamline street, over Guadalupe Creek or Julian St. over the Coyote Creek to replace present wooden structure.

TULARE COUNTY, Cal.—J. S. Metzger & Son, 332 West Jefferson St., Los Angeles, at \$36,290 awarded contract by State Highway Commission to construct four and widen two reinforced concrete bridges slab bridges between Goshen and Kingsburg, varying in length from 30 to 195 ft. Complete list of unit and total bids on this project published in issue of May 25.

SAN FRANCISCO—Mission Concrete Co., 270 Turk St., at \$115,433 awarded contract by Board of Public Works to construct Sloat Boulevard Viaduct in connection with the Sunset Blvd. Project. Complete list of unit and total bids received on this project published in issues of May 22 and 25.

VENTURA COUNTY, Calif.—Mitty Bros. Const. Co., Detwiler Bldg., Los Angeles, at \$282,203 submitted low bid May 27 to State Highway Commission to construct a deck plate girder bridge across the Santa Clara river about 1 mile south of Montalvo, consisting of twenty-one 56-ft. spans on concrete piers and abutments. Following is a complete list of bids:

Mitty Bros. Const. Co., L. A.....	\$282,203
Owl Truck Co., Compton.....	298,530
H. M. Baruch Corp., L. A.....	303,691
Macco Const. Co., Clearwater.....	304,156
R. J. Travers, L. A.....	306,115
Gutleben Bros., Oakland.....	308,116
Union Eng. Co., Ltd., Hunting-ton Park.....	312,374
Lynch-Cannon Eng. Co., L. A.....	317,207
Merritt, Chapman & Scott, San Pedro.....	318,903
Oterg Bros., Los Angeles.....	320,749
Genl. Eng. Co. Ltd., L. A.....	326,253
Bodenhamer Const. Co., Oakland.....	332,151
Robinson-Roberts Co., L. A.....	341,676
Rocca & Caletti, San Rafael.....	355,098

STREET LIGHTING SYSTEMS

SAN JOSE, Santa Clara Co., Cal.—City council has started proceedings to install electroler system in Fourth St., between San Fernando and San Carlos Sts. John J. Lynch, city clerk. Wm. Popp, city engineer.

SAN JOSE, Santa Clara Co., Cal.—San Jose Paving Co., San Carlos and Dupont Sts., San Jose, at \$35,310 (approx. \$6.89 per front foot) awarded contract by city council to widen West Santa Clara St., including the installation of an electroler system, from Market St. to the Los Gatos Creek Bridge.

MACHINERY AND EQUIPMENT

SAN JOSE, Santa Clara Co., Cal.—Until June 8 P. M., bids will be received by C. B. Goswami, city manager, to furnish a gasoline motor driven combined pumping engine and hose wagon. It is required that the pumping capacity be not less than 1000 gals.

of water per minute at 120 lbs. net pump pressure and that the apparatus be constructed as to carry at least 1,000 feet of 2½-inch double-jacket hose, all equipment, and eight men, without injury to the apparatus. In all other respects it is required that the apparatus shall be built and furnished to conform to the "Specifications for Gasoline Automobile Combustion Pumping Engine and Hose Wagon" issued by the Committee on Fire Prevention and Engineering Standards, National Board of Fire Underwriters, 1920, a copy of which is on file with the City Clerk. Certified check 10% required with bid. Further information obtainable from the city manager.

SAN FRANCISCO—Anderson & Cristofani at \$27,545.50 awarded contract by City Purchasing Agent, under Proposal No. 704, to furnish twin screw patrol boat for the Police Department.

SAN FRANCISCO—Until June 9, 2 P. M., bids will be received by U. S. Forest Service, Ferry Bldg., to furnish four 4-door sedans of 2600-pound class. Specifications obtainable from above.

MANTECA, San Joaquin Co., Cal.—California Motor Coach Co., at \$1900 for body and \$2870 for Mack chassis, awarded contract by trustees of the Manteca High School District to furnish school bus.

EQUIPMENT

TURLOCK, Stanislaus Co., Cal.—Until June 16, 8 P. M., bids will be received by A. P. Ferguson, city clerk, to furnish 500 ft. standard fire hose, together with standard coupling, guaranteed pressure 400 lbs. and for five years against defective material and workmanship; No. 11 threads, double jacket, 66 threads both inside and outside; the first class grade of upriver Para rubber or its equal. Certified check 10% required with bid. Samples must accompany bids. Further information obtainable from city clerk.

RESERVOIRS AND DAMS

HUNTINGTON PARK, Los Angeles Co., Cal.—Until 8 P. M., June 1, bids will be received by city council to construct 3,000,000-gallon cut and fill type reinforced concrete reservoir with wood roof. Will be 220x140 ft. and 20 ft. deep. Est. cost \$20,000. Plans obtainable from city engineer Howard S. McCurdy. Certified check or bond, 10%. W. P. Mahood, city clerk.

PIPE LINES, WELLS, ETC.

SAN FRANCISCO—Youldall Const. Co., Matson Bldg., at \$4,046,479 awarded contract by Board of Public Works to construct San Joaquin Valley Pipe Line in connection with the Hetch Hetchy project. Pipe will be furnished by the Western Pipe & Steel Co. of San Francisco. A complete list of the unit and total bids published in issue of May 22.

WATSONVILLE, Santa Cruz Co., Cal.—City Engineer H. B. Kitchen has completed specifications and bids will be asked at once by M. M. Swisher, clerk, to drill emergency water well.

capable of producing 1200 gals. per minute at Second st. and Van Ness Ave.

SEWERS AND SEWAGE DISPOSAL PLANTS

WHITTIER, Los Angeles Co., Cal.—Black and Veatch, consulting engineers, 307 S Hill St., Los Angeles, completing plans to improve sewage disposal plant for odor control, involving reinforced concrete aeration tank two horizontal centrifugal pumps direct connected to electric motors, air blower, chlorination equipment requiring about 30-lbs. of chlorine a day. Est. cost, \$26,000.

SONOMA, Sonoma Co., Cal.—Until June 2, 9-10 P. M. bids will be received by H. W. Gottenberg, city clerk to furnish and deliver:

- 70 ft. cast iron soil pipe, extra heavy 6-inch.
- Three 6-in. Tees, salt glazed sewer pipe.
- 154 4-in. Wyes on 6-in. sewer pipe.
- 3,440 ft. 6-in. salt glazed sewer pipe.
- Three 24-in. manhole castings, covers and rings.

Specifications on file in office of clerk.

FAIRFIELD, Solano Co., Calif.—City votes bonds of \$6,000 to finance reconstruction of outfall sewer. A. M. Jensen, engineer, 68 Post St., San Francisco.

BALLARD, Wash.—Bids will be asked shortly by city council to construct intercepting sewer; estimated cost \$600,000. The sewer is designed to intercept sewage that at present is emptying into the Lake Union ship canal and divert it to an outlet west of the government locks in Deep Water. The project is known as the 38th Ave. NW intercepting sewer. It will follow the foot of streets from which sewers empty into the canal and along the route of Shilshole Ave.

MISCELLANEOUS CONSTRUCTION

SACRAMENTO, Cal.—Lindgren & Swinerton, Inc., California State Life Bldg., Sacramento, and Standard Oil Bldg., San Francisco, at \$59,000 submitted low bid to city council to construct the H Street subway, the city of Sacramento and the Southern Pacific Railroad to each share one-half cost. Complete list of bids follows, all being taken under advisement:

Lindgren & Swinerton.....	\$59,000
McGivray Const. Co., Sacto.....	60,780
Holker Const. Co., Sacto.....	66,183
Fredrickson & Watson,	66,400
land	66,400
George Pollock	77,340
G. Gould, Stockton.....	83,900

Project involves:
 179 30-ft. untreated wooden piles;
 7250 cu. yds. excavation;
 700 cu. yds. backfill;
 9000 cu. yds. bow levee fill;
 35,000 lbs. reinf. steel and mesh;
 950 cu. yds. class A concrete;
 550 cu. yds. class B concrete;
 66.25 tons 33-in. steel girder beams;
 6 tons structural steel flood gates;
 16,800 sq. ft. concrete pavement;
 3960 sq. ft. 3- and 4-in. sidewalk;
 300 lin. ft. 2-in., 2-rail pipe railing.

Project consists of an underpass, bow levee and flood gates. Main structure, for underpass, to have gravity-type abutments built on piling. Deck to provide for three tracks, and consisting of 16, 33-inch 202-lb. Bethlehem, steel beams, with a clear span of 38 ft., topped with a 10-in. concrete slab with 1-in. of bituminous water-proofing. Five foot concrete walkways outside of and paralleling tracks. Vehicular portion to consist of 30-foot

California State Highway Commission standard concrete pavement, with 14 feet of vertical clearance, and one 7-foot pedestrian walk. Drainage to be disposed of by means of a sump and an automatically controlled electric pump. Bow levee to enclose the vehicular lane between the main structure and the flood gate structure—a distance of about 200 feet. Top of bow levee to be about 13 feet above natural ground, with crown width of 13 ft. and 23 side slopes. Flood gate structure to have counterforted retaining walls and to be equipped with steel gates 10 feet high, hinged at the walls and meeting at the roadway center line when closed.

WATER WORKS

VALEJO, Solano Co., Cal.—Until June 1, 11 A. M. bids will be received by Aif. E. Edgumbe, city clerk, to install 24-inch cast iron pipe line in Napa road and right of way and for alterations of a control house in Vallejo Township. Certified check 10% payable to city required with bid. Plans obtainable from T. D. Kilkenny, city engineer.

ST. HELENA, Napa Co., Cal.—Following contracts awarded by city council to furnish 6-inch cast iron pipe and connections; also lay pipe line from Pond's Well:
Pipe Fittings—C. G. Clausen, 825 Folsom St., San Francisco, \$5,971.33.
Construction—P. L. Burr, 320 Market St., San Francisco, \$3,543.
Valves—Kenselner Valve Co., 55 New Montgomery St., San Francisco, \$216.55.
Meter (one 6-inch meter)—Neptune Meter Co., 220 Market St., San Francisco, \$255.

ANAHEIM, Orange Co., Cal.—Until 8 P. M., June 9, bids will be received by city council to furnish one deep well turbine pump. The bowl of the pump is to be installed in the well 160 to 170 ft. below the surface. The pump is to have a capacity of 1000 G.P.M. against a total head of 280 ft. or 1500 G.P.M. against a 200-ft. head. Certified check 10%. Edward B. Merritt, city clerk.

LA VERNE, Los Angeles Co., Cal.—Until June 5, 7 P. M., bids will be received by Perry A. Yoder, city clerk, to furnish and install one motor driven, direct connected, deep well turbine pump with pump house and tower complete; pumping equipment to have capacity of 900 G.P.M. against a head of 350-ft. Plans on file in office of clerk and obtainable from Black & Veatch, consulting engineers, 307 S Hill St., Los Angeles.

EXETER, Tulare Co., Cal.—Pomona Pump Co., Pomona, at \$194 awarded contract by city trustees to furnish and install one deep well turbine pump, one horizontal centrifugal

booster pump and testing and developing one well.

SANTA BARBARA, Cal.—American Cast Iron Pipe Co., 412 W. 6th St., Los Angeles, awarded contract by city council at \$14,006.50 for furnishing cast iron water pipe and specials for a period of one year as follows:

- (Class B sand cast bell and spigot water pipe or 150-lb. pressure sand spun bell and spigot coated water pipe, in the following sizes:
 - (1) 1136 ft. 8-in.;
 - (2) 2624 ft. 10-in.;
 - (3) 636 ft. 12-in.;
 - (4) 1168 ft. 14-in.;
- with fittings, etc.

The prices bid for pipe, etc., follow:
 American Cast Iron Pipe Co., \$14,006.50; 8-in., \$815; 10-in., \$2515; 12-in., \$2800; 14-in., \$1980

R. W. Wood & Co., \$14,827.86; 8-in., \$49.72; 10-in., \$2641.03; 12-in., \$3554.73 14-in., \$2079.99

C. G. Clausen & Co., \$17,151.80; 8-in., \$957.65; 10-in. \$2986.11; 12-in., \$10,382.57; 14-in., \$2262.41.

Pacific States Cast Iron Pipe Co., bid on three items only: 8-in., \$903.12; 10-in., \$2660.15; 12-in., \$3269.76.

SANGER, Fresno Co., Cal.—Byron-Jackson Pump Co., 6th and Carlton Sts., Berkeley, at \$156 awarded contract by city trustees to furnish and install deep well turbine pump on concrete foundation at Plant No. 2, Block 41, Sanger. Pump for 12-inch standard double well casing; setting 80-ft. from base of discharge head to top of bowl assembly and equipped with 10-ft. of suction pipe, also screen of standard make; electrically controlled automatic oiler to be furnished with pump; pump capacity shall not be less than 700 gallons per minute at a total head of 200 feet of which 52 feet will be estimated well head; pump to be direct connected to a vertical auto-start electric motor, designed to operate under 440 volts, 3-phase, 60-cycle current. Complete list of bids follow:
 Peerless Pump Co..... \$1048
 Pelton Water Wheel Co..... 1220
 *Pomona Pump Co..... 1121
 Fairbanks Pump, Ltd..... 1235
 Fairbanks-Morse Co..... 1242
 Byron-Jackson Co..... 1156
 Pacific Pump Works..... 1290
 Larne Pump Co..... 1329
 Sterling Pump Co..... 1383
 Kimball-Krough Co..... 1500
 Submersible Pump Works..... 2191
 *Add \$108 for development of the well by a test pump.

SAN BERNARDINO, Cal.—Until 11 A. M., June 1, bids will be received by county supervisors to construct a circular concrete water tank, 30 feet in diameter and 7 feet deep, in Sleepy Hollow, Carbon Canyon, approximately 6 miles from Chino. Walls to be not less than 6 inches thick and floor to be not less than 4 inches thick. The

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interior is to be coated with not less than three coats of waterproof cement. Tank is to be equipped with 8-inch pressure gate and 10 feet of concrete glazed pipe. Certified or cashier's check for 5 per cent required. Harry L. Allison, county clerk.

FAIRFIELD, Solano Co., Cal.—City votes bonds of \$42,000 to finance improvements to water system, including sinking new deep well, construct tank and tower, install pump and extend water mains. A. M. Jensen, engineer, 68 Post St., San Francisco.

BOULDER CITY, Nevada.—Pacific States Cast Iron Pipe Co., Provo, Utah at \$27,016 awarded contract by U. S. Bureau of Reclamation to furnish approximately 9 miles of pipe in connection with Boulder City water system. Pipe ranges from 2-in. to 12-in. Complete list of bids published in issue of May 7.

SACRAMENTO, Cal.—Bids will be asked shortly by the city council for grading and clearing the site for the \$50,000 water sedimentation basins. The work will cost approximately \$5,000. Bids will be asked later for furnishing piling and for pile driving following which bids will be asked for the construction of the sedimentation basins proper. Plans for work are being completed by Henry Dewell, engineer, 55 New Montgomery Street, San Francisco.

VANCOUVER, B. C.—Bids will be asked shortly by the Greater Vancouver Water District to construct pressure tunnels 3,000 ft. long under the First Narrows of Vancouver Harbor. The work will consist of sinking two 400-ft. vertical shafts and excavating and lining the 7-ft. rock tunnel. Depth to rock at the north shaft will require pneumatic operations. The project also includes a 1,000 ft. of 66- to 70-in. pipe line across Stanley Park. The work is an extension to the district's water-supply system.

STREETS AND HIGHWAYS

BERKELEY, Alameda Co., Calif.—American Bitumuls Co., Union Oil Co. and Shell Oil Co., at \$13,000 per ton submitted identical bids to the city council to furnish not to exceed 1,000 tons of emulsified 95% road oil, f.o.b. Corporation Yard Spur, Berkeley, deliveries to be made from July 1, 1931.

SAN BENITO-MONTEREY-SAN LUIS OBISPO AND SANTA BARBARA COUNTIES, Cal.—Until June 10, 2 P. M., bids will be received by L. H. Gibson, district engineer, State Highway Commission, Bank of Italy Bldg., San Luis Obispo, for painting traffic stripes for designating traffic lanes on 254.26 miles in the above counties between the northerly boundary of San Benito County and the southerly bound-

ary of Santa Barbara County and between San Juan Bautista and Hollister in San Benito county.

SAN LUIS OBISPO COUNTY, Cal.—Until June 5, 2 P. M., bids will be received by L. H. Gibson, district engineer, State Highway Commission, Bank of Italy Bldg., San Luis Obispo, to treat with heavy fuel oil on each side of existing pavement, 2.8 miles between Arroyo Grande and Pismo. Specifications obtainable from engineer.

NAPA, Napa Co., Cal.—Ray E. Errington, Napa, at \$178,750 awarded contract by city council (\$59) to improve 8th St. bet. River St. and Soscol Ave., involving grading, concrete curbs, two-course emulsified asphalt macadam pavement, 40 ft. wide.

FRESNO-KERN COUNTIES, Cal.—Pacific Tank Lines, Inc., Los Angeles, at \$3296.50 submitted low bid to E. E. Wallace, district engineer, State Highway Commission, Fresno, to treat with light fuel oil as a dust palliative, 16.4 miles in Fresno county, between the west boundary and 2 miles east of Parkfield Junction and in Kern county, 8.2 miles between the west boundary and 2 miles west of Maricopa. Complete list of bids follow:

Pacific Tank Lines, Los Angeles	\$3296.50
Stewart & Nuss, Fresno	3338.00
Calif. Crane Service, L.	3471.50
Hartmann Constr. Co., Bakersfield	3577.50
Kern Constr. Co., Bakersfield	4213.50
Wm. J. Schmidt, Berkeley	4478.50

MARIPOSA COUNTY, Cal.—A. Teichert & Son, Inc., 1546 37th St., Sacramento, at 14,846, submitted low bid May 25 to E. E. Wallace, district engineer, State Highway Commission, Fresno, to cover with a bituminous surface treatment consisting of asphaltic road oil and screenings, 12.5 miles between Lorenos on the Ericksburg grade and El Portal. Wm. J. Schmidt, Berkeley, only other bidder at \$17,225.

FRESNO, Fresno Co., Calif.—City council declares intention (111-D) to improve Coast Ave. bet. Olive Ave. and Elizabeth Ave., involving grading, cement concrete sidewalks, curbs and driveway approaches. 1911 Act. Hearing June 11. H. S. Foster, city clerk. Jean L. Vincenz, city engineer.

SAN JOSE, Santa Clara Co., Cal.—See "Street Lighting Systems," this issue. Contract awarded to San Jose Paving Co. for widening West Santa Clara St.

CARSON CITY, Nev.—Isbell Const. Co., Carson City, at \$82,266 awarded contract by State Highway Commission for oiling, widening and reconditioning Clear Creek Highway from Carson-Minden highway to Spooners

Station. Engineer's estimate \$92,300. Other bids: Nevada Rock and Sand Co., Reno, \$87,200; Dodge Bros., Fallon, Nev., \$89,987.

BERKELEY, Alameda Co., Calif.—Until June 2, 10 A. M., bids will be received by Florence E. Turner, city clerk, to furnish cement in carload lots, f.o.b. Corporation Yard, Allston Way and West St., during the fiscal year beginning July 1, 1931. Cert. check \$100 required with bid. Spec. obtainable from clerk.

MONO COUNTY, Cal.—Until June 17, 2 P. M., bids will be received by State Highway Commission to surface with crusher run base and bituminous treated crushed gravel or stone, 12.9 miles between Sonora Junction and 4 miles south of Coleville.

NEVADA COUNTY, Cal.—Until June 17, 2 P. M., bids will be received by State Highway Commission to surface with crusher run base and bituminous treated crushed gravel or stone (plant mix), 8.8 miles between Truckee and Hinton.

TRINITY-SHASTA COUNTIES, Cal.—Until June 17, 2 P. M., bids will be received by State Highway Commission for bituminous treatment on 32.0 miles between Weaverville and Tower House.

MINERAL COUNTY, Nev.—Dodge Bros., Fallon, Nev., at \$65,016 awarded contract by State Highway Commission for grading, constructing structures and placing gravel surface on 10.42 miles between Hawthorne and Dutch Creek. Project involves:

- (1) 59,300 cu. yds. roadway excav.;
- (2) 700 cu. yds. structure excav.;
- (3) 20,200 cu. yds. selected borrow excavation in place;
- (4) 75,908 yds. sta. overhaul;
- (5) 10.42 miles prepare subgrade and shoulders;
- (6) 32,900 cu. yds. crushed rock or crushed gravel surf. in place;
- (7) 500 cu. yards crushed gravel or crushed rock in stockpile;
- (8) lump sum, furnish water equip.;
- (9) 2256 M. gals. apply water;
- (10) 86 cu. yds. class B concrete in place;
- (11) 972 lin. ft. 18-in. corrugated metal pipe in place;
- (12) 800 lin. ft. 24-in. do.;
- (13) 220 lin. ft. 6-in. do.;
- (14) 46 monuments in place;
- (15) 10.42 miles finishing roadway;
- (16) 650 lin. ft. remove & reconstruct fence.

Isbell Const. Co., Carson City, only other bidder at \$73,308. Engineer's estimate \$77,730. A complete list of the unit bids received on this project will be published shortly.

COLUSA COUNTY, Cal.—Until June 17, 2 P. M., bids will be received by State Highway Commission to grade and pave with Portland cement concrete 4.1 miles between 4 miles south of Williams and Williams.

SAN JOSE, Santa Clara Co., Cal.—City council declares intention (6364) to improve Filomena Ave. from San Pedro St. to a point 402 ft. westerly and a portion of San Pedro St., involving grading, 1 1/2-in. asph. concrete surface pavement on 2-in. asph. conc. base, cem. conc. curbs, gutters, walks and inlets, 8-in. vit. pipe drains. 1911 Act. Hearing June 15. John J. Lynch city clerk. Wm. Popp, city engineer.

SAN FRANCISCO.—Board of Public Works has repealed the ordinance ordering the improvement of Alameda Blvd. from Seneca to Ottawa Avenues, and authorized new proceedings to be started to provide for the improvement of the thoroughfare from Seneca to Naglee Aves. The cost is estimated at \$90,000.

CONTRACTORS' MACHINE WORKS
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Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists,
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HAWTHORNE, Nev.—A. D. Drumheller, Fallon, Nev., submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., May 29, at \$16,413.33 for treating gravel roads at the Naval Ammunition Depot, Hawthorne, with asphaltic fuel oil, involving approximately \$3,000 sq. yds. A complete list of bids received will be published shortly.

SACRAMENTO, Cal.—Until June 8, 10 A. M., bids will be received by H. W. Hall, county clerk, for grading and paving Del Paso Blvd. from the North Sacramento city limits to Ben All Road. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Specifications obtainable from County Engineer Chas. Deterding.

MENLO PARK, San Mateo Co., Cal.—Until June 2, 8 P. M., bids will be received by Fannie I. Kurtz, city clerk (31-2) to improve Oak Grove and Cherry Aves., Laurel and Mills Sts., and Greenwood Ave., involving:

- 3,000 cu. yds. excavation;
- 1,200 cu. yds. embankment;
- 40,620 sq. ft. 1½-inch Emulsified asph. pave. on 4-in. rock base;
- 30,000 sq. ft. resurfacing;
- 7,135 lin. ft. concrete curb;
- 72 driveway entrances;
- 6 part circle curbs;
- 350 lin. ft. sewer connections;
- 44,825 sq. ft. concrete sidewalks.

1911 Act. Bond Act 1915. Estimated cost, \$20,000. Specifications obtainable from Bert J. Mch. city engineer.

SONOMA, Sonoma Co., Cal.—Until June 6, 7:30 P. M., bids will be received by H. W. Gottenberg, city clerk for asphaltic oil surfacing on six miles of streets, involving:

- 20 barrels light oil;
- 20 tons heavy oil;
- 150 tons rock;
- 100 tons screenings.

Certified check 5% required with bid. Specifications on file in office of clerk.

SAN FRANCISCO.—Bureau of Engineering, Dept. of Public Works, completes specifications to improve Watson St. between 19th and 20th Aves. Estimated cost \$450. Project involves:

- 159 lin. ft. armored conc. curb;
- 220 lin. ft. 8-in. V.C.P. sewer;
- 1 trick manhole;
- 125 lin. ft. 6-in. V.C.P. side sewer;
- 12,000 sq. ft. asph. conc. pavement; 2-in. asph. conc. surface with 6-in. class conc. base.

KERN COUNTY, Cal.—Pacific Tank Lines, Inc., 772 S-San Pedro St., Los Angeles, at \$3106.59 submitted low bid to F. G. Sommer, district engineer, State Highway Commission, Bismarck, for treating with heavy fuel oil as a dust palliative, 11.4 miles between Canebark and Route 23, involving 1590 bbls. Complete bid listing follows:

Pacific Tank Lines, Inc., \$1.95; total, \$3106.59.
Gilmere Oil Co., Ltd., 2.09; total, \$3232.10.
California Road Oil Service Co., Ltd., \$2.34; total, \$3720.60.
F. W. Nighbert, \$2.81; total, \$4467.90.

ELKO COUNTY, Nevada.—Utah Constr. Co., Ogden, Utah, at \$137,111.21 awarded contract by State Highway Commission to furnish, heat and apply asphaltic fuel oil and mixing it with crushed rock or crushed gravel surface on 31.4 miles between Elko and Death. Bids taken under advisement. Project involves: 582,631 gals. asph. fuel oil applied to roadway surface; 31.4 ml. mixing asph. fuel oil with crushed rock or crushed gravel surface; 31.4 ml. rebuilding and finishing shoulders.

(MONTEIREY, Monterey Co., Cal.—City council declares intention 3137 to improve David Avenue, between Hawthorne and Pine Sts., and from Pine St. to west city limits, involving paving with 1½-in. asphalt macadam surface on existing water-bound macadam base; 24 4-inch house connection sewers. 1911 Act. Bond Act 1915. Hearing June 16. Clyde A. Dorsey, city clerk.

SHASTA COUNTY, Cal.—Until June 11, 2 P. M., bids will be received by C. H. Sweetser, district engineer, 137 S. Bureau of Public Roads, 461 Market St., San Francisco, for grading and surfacing a portion of Section B of Route No. 1, The Loop Route, Lassen Volcanic National Park, 0.711 miles in length, involving:

- clearing;
- 3 cu. cu. yds. unclass. excavation;
- 13 cu. cu. yds. unclass. excavation for structures;
- 1,500 sta. yds. overhaul;
- 306 cu. yds. crushed rock for surfacing;
- 3 cu. cu. yds. masonry;
- 142 lin. ft. corrugated metal pipe in place.

Specifications obtainable from engineer on deposit of \$10, returnable, checks for same to be made payable to the Federal Reserve Bank of San Francisco.

SAN LUIS OBISPO COUNTY, Cal.—Until June 4, 2 P. M., bids will be received by L. H. Gilson, district engineer, State Highway Commission, Bank of Italy Bldg., San Luis Obispo, to treat with heavy fuel oil on each side of the existing pavement, 9.1 mi. between Atascadero and Paso Robles. Certified check 10% payable to the Director of Public Works required with bid. Specifications obtainable from the engineer.

SAN FRANCISCO.—C. B. Eaton, 715 Ocean Ave., only bidder, awarded contract by Board of Public Works to improve crossing of Fitzgerald Ave. and Jennings St. and Jennings Street bet. Fitzgerald and Gilman Ave., involving: 195 lin. ft. armored concrete curb, \$1; 660 sq. ft. 1-course concrete sidewalk, \$20; 4 brick catchbasins, \$19; 90 lin. ft. 12-in. V.C.P. culverts, \$2; 32 lin. ft. 12-in. V.C.P. sewer, \$3; 68 lin. ft. 6-in. V.C.P. side sewer, \$1; 6,113 sq. ft. asph. concrete pavement 2-in. asph. concrete surface on 6-in. class F concrete base, \$30.

SAN FRANCISCO.—Board of Public Works rejects bids received May 20 to improve crossing of Quintara and 33rd Ave. and Quintara between 33rd and 34th Aves., involving grading; curbs; walks; sewers and asph. conc. pavement. C. L. Harney, Call Bldg., was low bidder at \$3,063 but this bid was rejected due to the unbalancing of the bids on the various items. These bids published in issues of May 22 and May 25. New bids have been ordered received to be opened on June 3, 2:30 P. M.

Project involves:

- 600 cu. yds. excavation;
- 94 lin. ft. armored concrete curb;
- 3 brick catchbasins;
- 105 lin. ft. 10-in. V.C.P. culvert;
- 34 lin. ft. 21-in. V.C.P. sewers;
- 16 yr. branches on 21-in. V.C.P.;
- 40 lin. ft. 8-in. V.C.P. sewer;
- 3 brick manholes;
- 650 sq. ft. 1-course concrete sidewalk;
- 4838 sq. ft. asphalt concrete paving, consisting of 2-in. asphalt concrete wearing surface and 6-in. class F concrete base.

SAN FRANCISCO.—E. J. Treacy, Call Bldg., at \$3,911 awarded contract by Board of Public Works to improve Ingrason Ave. bet. Ingalls and Hawes Sts. and intersection of Redondo Ave.

involving grading, asph. conc. pavement, etc. Complete list of unit and total bids published in issues of May 22 and 25.

SAN JOAQUIN COUNTY, Calif.—N. M. Ball, Porterville, at \$195,801 submitted low bid May 27 to State Highway Commission to improve highway between Turner Station and Stockton, 7.1 miles to be graded and 4.9 miles to be paved with Portland cement concrete. Following is a complete list of the bids:

N. M. Ball, Porterville.....	\$195,801
C. W. Wood, Stockton.....	196,117
Hanrahan Co., San Francisco.....	203,116
John & Bregal Const. Co., Los Angeles.....	211,393
Frederickson & Watson and Frederickson Bros., Oakland.....	211,756
Clark & Henry, San Francisco.....	223,739

Bids held under advisement.

IMPERIAL COUNTY, Cal.—Griffith Co., Los Angeles Railway Bldg., Los Angeles, at \$95,590 submitted low bid May 27 to State Highway Commission to widen with asphalt concrete, 2.1 miles between E High Line Canal and Sand Hills. Following is a complete list of bids:

Griffith Co., Los Angeles.....	\$95,590
Steele Finley, Santa Ana.....	110,877
R. E. Hazard Const. Co., San Diego.....	111,615
Southwest Paving Co., L. A.....	113,072
D. R. Dennis Const. Co., San Diego.....	122,291

SHASTA COUNTY, Cal.—D. McDonald, 1118 G St., Sacramento, at \$13,154 submitted low bid May 27 to State Highway Commission to treat 60.1 miles between Redding and Fall River with heavy fuel oil and cut-back asphalt as a dust palliative. Following is a complete list of bids:

D. McDonald, Sacramento.....	\$13,154
Esaul Rock Co., Napa.....	14,373
Granite Const. Co., Watsonville.....	14,860
C. W. Wood, Stockton.....	15,027
Jack Casson, Hayward.....	15,267

SAN MATEO COUNTY, Cal.—Barrett & Hilt, 918 Harrison St., San Francisco, at \$95,188 submitted low bid May 27 to State Highway Commission to construct an undergrade crossing under tracks of the Southern Pacific Railroad near Henderson Station, consisting of two concrete abutments with wing walls, installing drainage system, and pumping equipment, and grading and paving approximately 4 mile of roadway with Portland cement concrete. Following is a complete list of bids:

Barrett & Hilt, San Francisco.....	\$95,188
Healy-Tibbitts Const. Co., S. F.....	98,728
Frederickson & Watson and Frederickson Bros., Oakland.....	101,272
C. W. Wood, Stockton.....	102,856
M. B. McGowan, San Francisco.....	106,384
Hanrahan Co., San Francisco.....	107,439
J. A. Ralsch, San Jose.....	not totaled

SUTTER-BUTTE COUNTIES, Cal.—Jones and King, Hayward, at \$68,487 submitted low bid May 27 to State Highway Commission to place 14-in. continuous treated rock borders on 19.2 mi. between Yuba City and Biggs Road. Following is a complete list of bids:

Jones & King, Hayward.....	\$68,487
F. W. Nighbert, Bakersfield.....	71,363
Clark & Henry Co., S. F.....	79,483
Southern Calif. Roads, L. A.....	79,793
J. E. Johnston, Stockton.....	81,255
A. Teichert & Sons, Sacramento.....	86,273
Granite Const. Co., Watsonville.....	86,783
Henstreet & Bell, Marysville.....	86,892

KERN COUNTY, Cal.—Pacific Tank Lines, Inc., 772 S-San Pedro St., Los Angeles, at \$3106.59 (\$1.95 bbl.) awarded contract by State Highway Commission to treat with heavy fuel oil as a dust palliative, 11.4 miles be-

tween Canby and Route 23, involving 1590 bbls. Complete list of unit and total bids reported in issue of May 25.

SAN FRANCISCO.—Meyer Rosenberg, 1755 San Bruno Ave., awarded contract by Roman Catholic Archbishop, 1100 Franklin St., for grading of the proposed College for Women near Turk St. and Masonic Ave. H. A. Minton, architect, Bank of Italy Bldg. The contract involves approximately 173,000 cu. yds. of rock and sand excavation.

SACRAMENTO COUNTY, Cal.—Basch Bros., 20,550 Normadie Ave., Torrance, at \$199,365.30 awarded contract by State Highway Commission to grade and pave with Portland cement concrete, 7.2 miles between Brighton and Mills. Complete list of unit and total bids received on this project published in issue of May 27.

SANTA CRUZ, Santa Cruz Co., Cal.—Until June 8, 2 P. M., bids will be received by H. E. Miller, county clerk, to construct a portion of the Coast Road, about 4 miles north of Davenport in the Seaside Road District. Project involves:

- (1) 9000 cu. yds. roadway excavation without classification;
 - (2) 120 lin. ft. corrugated metal culverts, 12-in. dia. in place.
- Certified check 10% required with bid. Plans obtainable from Lloyd Bowman, county surveyor, on deposit of \$5, returnable.

SAN FRANCISCO.—Bureau of Engineering, Dept. of Public Works, 3rd floor, City Hall, completes specifications to improve Hyde Street between Chestnut and Bay Sts. Estimated cost, \$27,000. Project involves:

- (1) 1000 cu. yds. excavation;
- (2) 1300 cu. yds. embankment;
- (3) 1516 cu. yds. class B 2500-lb. concrete, in walls, etc.;
- (4) 63,000 lbs. bar steel;
- (5) 490 lin. ft. 12-in. V.C.P. sewer;
- (6) 200 lin. ft. 6-in. V.C.P. side sewer;
- (7) 9 12x6-in. Y branches;
- (8) 2 brick manholes;
- (9) 2 brick catchbasins;
- (10) 90 lin. ft. 10-in. V.C.P. culverts;
- (11) 36 lin. ft. 6-in. V.C.P. underdrain, in broken rock;
- (12) 1010 lin. ft. armored conc. curb;
- (13) 160 lin. ft. 2x16-in. redwood curb;
- (14) 18,300 sq. ft. 6-in. class E conc. pave., 1-in. brick header;
- (15) 4,800 sq. ft. 1-course conc. sidewalk;
- (16) 2 brick catchbasins, reset;
- (17) 1860 sq. ft. 4-in. macadam sidewalk, with emulsified asphalt wearing surface;
- (18) 2500 sq. ft. 8-in. waterbound macadam pave., 3/4-in. emulsified asphalt wearing surface;
- (19) 100 lin. ft. 1 1/2-in. galvanized conduit in place, including couplings and plugs;
- (20) 1300 lin. ft. 1 1/2-in. black iron pipe conduit.

CLARK COUNTY, Nevada—Until June 10, 2 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, to furnish, heat and apply asphaltic fuel oil and mixing it with crushed rock or crushed gravel surface from Las Vegas to 10 miles southeast, 10.18 miles in length, involving:

- (1) 262,778 gals. asphaltic fuel oil applied to roadway surface;
- (2) 10.18 mi. mixing asphaltic fuel oil with crushed rock or crushed gravel surface;
- (3) 10.18 mi. rebuilding and finishing shoulders;
- (4) 3200 sq. yds. oiling shoulders and side slopes, including furnishing 2600 gallons asphaltic fuel oil.

NOTE.—The oil shall be delivered at the following railway siding and in

the quantities as shown: Las Vegas Siding, 265,378 gal.; average haul on entire contract, 7.95 miles.

Plans obtainable from engineer and files in the office of the U. S. Bureau of Public Roads, 461 Market St., San Francisco.

SAN JOAQUIN COUNTY, Cal.—C. W. Wood, P. O. Box 1435, Stockton, at \$44,500 awarded contract by State Highway Commission to grade and surface with bituminous treated crushed gravel or stone, 3.5 miles between French Camp and Stockton. Complete list of unit and total bids received on this project published in issue of May 26.

SAN MATEO COUNTY, Cal.—Hanrahan Co., Standard Oil Bldg., San Francisco, at \$1937.13 awarded contract by State Highway Commission for cement concrete pavement at S. P. Railway Underpass near Colma. Complete list of unit and total bids on this project published in issue of May 27.

YOLO-COLUSA COUNTIES, Cal.—Fred W. Nighlert, Bakersfield, at \$24,140.50 awarded contract by State Highway Commission for 8.7 miles of bituminous treated rock borders between Dunnigan and 1/2 mile south of Arbuckle. Complete list of unit and total bids on this project reported in issue of May 25.

MENDOCINO COUNTY, Cal.—Jas. W. Bertram, Hopland, at \$7131.25 submitted low bid to F. W. Hazelwood, district engineer, State Highway Commission, Eureka, to surface with untreated crushed gravel or stone, 2.1 miles between Piercy and the north boundary. Following is a complete list of bids received, all referred to Sacramento office for action:

Jas. W. Bertram, Hopland.....\$ 7,131.25
Tieslau Bros., Berkeley..... 8,636.75
Smith Bros., Eureka..... 10,939.00

Minnesota's Minimum Wage Rates Announced

The first job on which Minnesota's minimum wage ruling is to be effective will be the Moorhead Teachers' College. The scale drawn up for this work will vary somewhat on other jobs depending on the rate of wages in the communities where the work is done. Local labor is to be used on all jobs where competent craftsmen are available, the Department of Administration and Finance states. The minimum rates as follows: Electricians, \$1.12 1/2 per hour; plumbers, \$1.12 1/2; bricklayers, \$1.15; painters, 85 cents; sheet metal workers, 85 cents; plasterers, \$1.00; cement finishers, 65 cents; carpenters, 50 cents; building laborers, 50 cents; plaster tenders, 55 cents.

Uses of the Ateco hydraulic dirt mover are featured in a 12-page bulletin 131, issued by the American Tractor Equipment Co., Oakland, Cal., and Peoria, Ill.

A new catalog illustrating and describing in detail a complete line of core drills, supplies and equipment has just been issued by Sprague & Henwood, Inc., Scranton, Pa.

Bars, plates, structural shapes and rail steel products of the Inland Steel Co., First National Bank Building, Chicago, Ill., are listed in a 48-page pocket-size catalog, "Sizes We Roll and Standard Extras."

Catalog 495 of the Jeffrey Mfg. Co., Columbus, O., describes six principal types of spiral conveyors and accessories including the following: section flight, helioid, mixer, cut flight ribbon and cast iron.

The Oakland School Board can recommend that the "prevailing wage" scale be paid by contractors on school buildings, but it has no legal authority to enforce such a rule or to force contractors to employ local citizens.

This was the explanation of the board's position by J. W. Edgemont, secretary, following a report from the Alameda county building trades council of complaints that a lower scale is being paid on the Fremont high school job.

Charles R. Gurney, secretary-treasurer of the building trades council, presented the matter at a school board meeting. He said his organization had been informed that the firm of Charles D. Vezey & Sons is paying \$8 a day to the majority of its carpenters on the Fremont school job, whereas the prevailing scale is \$4. The hoisting engineer is paid \$5 a day, which is \$4 beneath the scale, and laborers are paid lower than the scale, according to complaints Gurney said. W. E. Wadsworth, superintendent of buildings, is to make an investigation of the wage scale at the Fremont school and report back next Tuesday night to the school board.

But the school board can only recommend to the contractor that he pay the prevailing wage, if it is disclosed he is not, according to Edgemont.

Oakland school contracts are let under state laws, Edgemont explained, which provide for letting jobs to the lowest bidder, but give the board no authority to specify what wage shall be paid or whom the contractors shall employ.

San Francisco has such authority under its county charter, he pointed out, which permits the writing in of "prevailing wage" clauses in building contracts and provides work must go to citizens.

Members of the board, Edgemont said, expressed themselves in favor of all the points brought up by Gurney, but found themselves unable to do more than recommend employment of citizens and maintenance of the wage scale.

Economies of floor and roof construction using Steelux, a wire reinforced concrete with integral fiber backing that combines reinforcement and form, are outlined in a 24-page illustrated catalog issued by the National Steel Fabric Co., Union Trust Bldg., Pittsburgh, Pa.

American Fluoresid Co., 27 East Water St., Cincinnati, Ohio, has issued three pamphlets dealing with the uses of Fluoresid, a hardener and waterproofer for concrete. Duromit, a special type of hard aggregate for concrete floors, and Lapidensin, a waterproof preservative for brick, stone and stucco.

Adrian D. Joyce, president of the Glidden Co., manufacturers of paints and varnishes, chemical and pigments and foods, declares the financial statement for the first six months of the fiscal year will show a profit. He added that Glidden's business made an upturn in March, and prospects for the balance of the year are favorable.

The Blaw-Knox Company has acquired the exclusive sales and manufacturing rights of the "Ateco" line of earth-moving machinery from the American Tractor and Equipment Co., Oakland, Calif., for the United States, east of the Rocky Mountains and for all other countries. The line includes hydraulically operated earth movers, bulldozers, scarifiers, tamping rollers and combination outfits.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
778	Stoneson	Owner	210' 0
779	Castle	Owner	3000
780	Stanley	Owner	6500
781	Stoneson	Owner	3500
782	Sharman	Owner	7000
783	Meyer	Owner	12000
784	Crocker	Dinwiddie	15000
785	Dall	Owner	3500
786	Schonbachler	Meadowcroft	4000
789	May	May	4000
790	Muter	Owner	3000
791	McCarthy	Owner	8000
792	Frajak	Lindberg	3936
793	Doelger	Owner	16000
794	S F Warehouse	Barrett	12000
795	Curtis	Morris	3500
796	Doelger	Owner	8000
797	Pacher	Owner	15000
798	Sharman	Armbrust	4500
799	Rogers	Owner	8000
800	Nakahara	Owner	30000
801	Johnson	Owner	7000
802	Roberts	Koenig	4000
803	Mager	Owner	4000
804	West Side	Jacks	35000

DWELLINGS

(778) N NIAGARA 99 E Delano; six one-story and basement frame dwellings.
Owner—Stoneson Bros. & Thorinsson, 279 Yerba Buena.
Plans by Owner. each \$3500

DWELLING

(779) E ALEMANY BLVD. 175 S Admiral; 1-story and basement frame dwelling.
Owner—Castle Bldg. Co., 830 Market Street.
Plans by Owner. \$3000

DWELLING

(780) N DARIEN 100 W San Benito; two-story frame dwelling.
Owner—C. W. Stanley, 467 Turk St.
Architect—C. Phillips, 1463 Hopkins St. Berkeley.
\$6500

DWELLING

(781) W 25th AVE 90 N Vicente; one-story and basement frame dwelling.
Owner—Stoneson Bros. & Thorinsson, 279 Yerba Buena.
Plans by Owner. \$3500

DWELLINGS

(782) S QUESADA 200 E Keith; two one-story and basement frame dwellings.
Owner—T. R. Sharman, 1514 Irving St.
Plans by Owner. each \$3500

DWELLINGS

(783) W ROCKDALE 65 N Omar; three 1-story and basement frame dwellings.
Owner—Meyer Bros., 727 Portola Dr.
Plans by Owner. each \$4000

ALTERATIONS

(784) POST and Montgomery Streets; alterations to pent house, etc.
Owner—Crocker First National Bank Post and Montgomery Sts.
Engineer—T. Remberg Crocker Bldg.
Contractor—Dinwiddie Const. Company, Crocker Bldg. \$15,000

DWELLING

(785) NW BERTITA 457 NE Seneca; one-story and basement frame dwelling.

Owner—J. Dall, 940 Geneva Ave.
Plans by D. E. Jackle, 744 Call Bldg. \$3600

DWELLING

(786) E 25th AVE. 250 N Klrkham; one-story and basement frame dwelling.
Owner—Mr. and Mrs. A. Schonbachler, 1436 25th Ave.
Plans by Mr. Meadowcroft.
Contractor—F. E. Meadowcroft, 1459 25th Ave. \$4000

DWELLING

(789) S MORAGA 106 W Twenty-sixth Ave. One-story and basement frame dwelling.
Owner—W. H. May, 523 39th Ave., San Francisco.
Plans by Owner.
Contractor—F. E. May, 523 39th Ave., San Francisco. \$4000

DWELLING

(790) W VERNON 325 S Halloway. One-story and basement frame dwelling.
Owner—D. W. and I. Muter, 1151 Cole St., San Francisco.
Plans by C. A. Wilder, 1355 Willard St., San Francisco. \$3000

DWELLINGS

(791) W TWENTY-FIRST AVE 178 S Nareiga. Two one-story and basement frame dwellings.
Owner—J. E. McCarthy, 1342 Funston Ave., San Francisco.
Plans by Owner. \$4000 each

DWELLING

(792) S BOSWORTH 25 E Erompton; one-story and basement frame dwelling.
Owner—J. Frajak, 645 Bosworth.
Plans by B. K. Dobkowitz, 425 Monterey Blvd.
Contractor—C. Lindberg, 1 Naylor St. \$3936

DWELLINGS

(793) E 32nd AVE. 25 N Lawton St.; four 1-story and basement frame dwellings.
Owner—H. Doelger, 300 Judah St.
Plans by Owner. each \$4000

ALTERATIONS

(794) 353 BRANNAN ST.; alterations and additions to warehouse.
Owner—San Francisco Warehouse Co., 353 Brannan St.
Engineer—W. H. Ellison, E. Russell, 712 Pacific Bldg.
Contractor—Barrett & Hilp, 918 Harrison St. \$12,000

DWELLING

(785) N GEARY ST. 50 E Baker; 1-story and basement frame dwelling.
Owner—M. Curtis, % builder.
Plans by Builder.
Contractor—Morris and Warner, 1182 Market St. \$3600

DWELLINGS

(796) N LAWTON 90 W 31st Ave.; two 1-story and basement frame dwellings.
Owner—H. Doelger, 300 Judah St.
Plans by Owner. each \$4000

APARTMENTS

(797) W CASTRO 150 S 21st Street; three-story and basement frame (11) apartments.
Owner—F. A. Pacher, 1467 11th Ave.
Plans by Owner. \$15,000

DWELLING

(798) W MARCELA 470 N Pacheco; two-story and basement frame dwelling.
Owner—G. Sharman.
Architect—W. E. Huson.
Contractor—H. W. Armbrust, 2472 28th Avenue. \$4600

DWELLINGS

(799) W 22nd AVE. 25 S Moraga St.; two 1-story and basement frame dwellings.
Owner—J. W. Rogers, 1695 21st Ave.
Plans by Owner. each \$4000

ALTERATIONS

(800) SW CALIFORNIA STREET and Grant Avenue; alterations to department store for store and hotel.
Owner—J. T. Nakahara, 1551 Laguna.
Plans by G. G. Shimmamoto, 1551 Laguna St. \$50,000

DWELLINGS

(801) E 33rd AVE. 235 N Vicente; two 1-story and basement frame dwellings.
Owner—N. E. Johnson, 666 Mission St.
Plans by Owner. each \$3500

ADDITION

(802) 45 SHORE VIEW AVE.; add room to dwelling.
Owner—W. F. Roberts, Jr., 45 Shore View Ave.
Architect—Not Given.
Contractor—C. J. Koenig & Son, 520 Church St. \$3000

DWELLING

(803) E 14th AVE. 285 S Santiago; 1-story and basement frame dwelling.
Owner—Mager Bros. & Son, 7859 4th Avenue.
Plans by Owner. \$4000

CHURCH

(804) N BUSH ST. 137 E Divisadero; two-story class C church.
Owner—West Side Christian Church, Inc., 2520 Bush St.
Architect—Bertz, Winter and Maury, 210 Post St.
Contractor—Jacks & Irvine, 74 New Montgomery St. \$35,000

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - California

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No. Owner	Contractor	Amnt.
96 Heydenfeldt	Harder	7850
99 McCarthy	Meyer	3723
99 Crowley	Doelger	4850
100 Capital	Home	801
101 West Side	Jacks	39222

RESIDENCE

(96) S MARINA BLVD, 120 E Divisadero S 100 E 13-3 S 30 E 11-9 N 130 W 30; all work on two-story and basement frame residence.

Owner—F. O. Heydenfeldt.
Architect—N. R. Coulter, 46 Kearny Street.

Contractor—G. Harder.
Filed May 22, '31. Dated May 11, '31.
First floor laid\$1150.00
Roof on 1150.00
Brown coated 1500.00
Completed and accepted 2087.50
Usual 35 days 1962.50

TOTAL COST, \$7850

Bond, \$3925. Sureties, The Fidelity & Casualty Co. of New York. Limit, 100 days. Plans and Spec. filed.

DWELLING

(98) LOT 9 BLK 2956-A Subdv No 7, Miraloma Park; all work on one-story and basement frame dwelling.

Owner—The McCarthy Co., 40 Kearny Street.

Architect—Not Given.
Contractor—Meyer Bros., 727 Portola Drive.

Filed May 23, '31. Dated May 20, '31.
Side and roof sheathing on \$331
Brown coated 931
Completed 931
Usual 35 days 930

TOTAL COST, \$3723

Limit, 90 days. Plans and Spec. filed.

BUNGALOW

(99) W 20th AVE, 150 S Noriega S 25 x W 120; all work on 1-story and basement frame bungalow.

Owner—John P. and Angelina Crowley, 1763 Filbert St.

Architect—Not Given.
Contractor—Henry Doelger, 300 Judah Street.

Filed May 23, '31. Dated May 11, '31.
Down payment \$ 75
Roof on 10000
Flaster on 1000
Completed 1000
Usual 35 days 1000
Note for 775

TOTAL COST, \$4850

PANELLING

(100) SE COR CALIFORNIA AND Montgomery Sts.; installing panelling in Rooms 601 and 602, Bank of America Bldg.

Owner—Capital Co., 460 Montgomery. Architect—H. A. Minton, Bank of America Bldg.

Contractor—Home Mfg. Co., 552 Branman Street.

Filed May 25, '31. Dated May 20, '31.
1st and 15th of each month75%
Usual 35 days 25%

TOTAL COST, \$801.75

Bond, \$801.75. Sureties, Sun Indemnity Co. of N. Y. Forfeit, \$25 per day. Limit, June 5, 1931. Plans and Spec. filed.

CHURCH

(101) NO. 2520 BUSH ST. All work in accordance with plans.

Owner—West Side Christian Church. Architect—Bertz, Winter & Maury, 210 Post St., San Francisco.

Contractor—Jacks and Irvine, Inc., 74 New Montgomery St., S. F.

Filed May 26, '31. Dated May 26, '31.
On 1st of each month 75%
Usual 35 days 25%

TOTAL COST, \$39,222

Bond, \$19,611. Surety, Massachusetts Bonding & Insurance Co. Limit, 100 days. Forfeit, none. Plans and specifications filed.

May 26, 1931—SW HARVARD 100 SE Pichee SE 25 x SV 120. C Johnson to whom it may concern. May 25, 1931

May 26, 1931—SW 31st AVE 160 N Cabrillo, Herbert W Finck to whom it may concern. May 25, 1931

May 26, 1931—SW MONTEREY Blvd and Westgate Drive. S R Anderson to whom it may concern. May 25, 1931

COMPLETION NOTICES

San Francisco County

May 25, 1931—190 PARK ST. Wm Byrne to whom it may concern. May 18, 1931

May 22, 1931—E DIAMOND 15, 191st N 21 x E 125. Christopher and Mary A Farrell to whom it may concern. May 16, 1931

May 22, 1931—W 34th AVE 125 S Ulloa S 25 x W 120. Nils E Johnson to whom it may concern. May 21, 1931

May 22, 1931—LOT 21 BLK D map Lakeview. J Horn to whom it may concern. May 22, 1931

May 22, 1931—E HOWARD 161-6 S 25th S 28-6 x E 115. L S Congmore to Thos Hamill, Inc. May 13, 1931

May 21, 1931—W JENNINGS 75 N Thomas Ave 25x75. T and C Portello to whom it may concern. May 18, 1931

May 22, 1931—300 from S LINCOLN Way on W 40th Ave S 25 x 120. John Leregen to whom it may concern. May 21, 1931

May 22, 1931—W 50th AVE 125 N Kirkham 25x120. Herbert J Hunt to whom it may concern. May 19, 1931

May 22, 1931—W 27th AVE 287 N Lake N 37-6 x W 120. R Guilmerton to H S Meintger. May 21, '31

May 22, 1931—E 25th AVE 100 North Taraval N 25 x E 120. P E Yuki-jevich to whom it may concern. May 20, 1931

May 20, 1931—LOT 16 BLK 2955-A Map Sub No. 6, Miraloma Park. Meyer Bros to whom it may concern. May 19, 1931

May 20, 1931—W DELANO AVE 278 Delano Ave. W R Koch to whom it may concern. May 19, 1931

May 20, 1931—NE LOMBARD AND Leavenworth N 39-8 x E 42-8. Edw Th and Nora K Francis to Ash & Hand. May 19, 1931

May 20, 1931—W 34th AVE 100 S Ulloa S 25 x W 120. Jesse Horn to whom it may concern. May 20, 1931

May 20, 1931—SE TARA 200 NE Mt Verma Ave. Arvid Lindquist to whom it may concern. May 19, 1931

May 20, 1931—LOTS 14 and 15 BLK 48, Sunnyside. F L McAfee to whom it may concern. May 19, 1931

May 25, 1931—SE LATHROP and Tunnel Aves, 100 whom it may concern. May 25, 1931

May 25, 1931—W DIVISADERO 75 S Francisco S 25 x W 93-9. Israel and Miriam H Levit to whom it may concern. May 25, 1931

May 25, 1931—OT 1 BLK 2947-A Sub No 7, Miraloma Pk. The McCarthy Co to Meyer Bros. May 22, 1931

May 25, 1931—LOT 48 BLK 2947-A Sub No 7 Miraloma Pk. The McCarthy Co to Meyer Bros. May 22, 1931

May 25, 1931—E 22nd AVE 200 North Santiago N 25 x E 120. B Mirsky & Son Inc to whom it may concern. May 21, 1931

May 25, 1931—SW CHESTNUT and Scott W 126 S 125 E 26 N 50 E 100 N 75. E and E Stern to whom it may concern. May 22, 1931

May 22, 1931—671-673 33rd AVENUE. Thos M Alsop to whom it may concern. May 21, 1931

May 26, 1931—E FOURTH ST 14 N 255 S Santiago 30x120. J Mager to whom it may concern. May 26, 1931

May 26, 1931—LOT 1 BLK 5802 St Mary's Park. A R Johnson to whom it may concern. May 29, 1931

LIENS FILED

San Francisco County

Recorded Accepted
May 22, 1931—W LEE AVE 125 N Lakeview N 25 x W 112-6. Central Hardware & Glass Co vs S and A W Bright and Ash & Hand \$32.15

May 22, 1931—S 19th 150 W Guerrero W 25 x S 128. Central Hardware & Glass Co vs M Piguel, Ash and Hand \$24.53

May 26, 1931—SW MARKET and SW 6th SE 110 SW 75 NW 35 NE 25 NW 85 W E 50. Lamey Bros vs H Verbin, W E Buck, Wm W and J C Ohlandt \$116

May 22, 1931—S SILVER AVE 30 E Madison E 25 x S 100. California Terrazzo & Marble Co vs J G Lehman and L B Terlip \$24.25

May 22, 1931—E WISCONSIN 297-4 S 20th S 25-8 x E 100. Central Hardware & Glass Co vs I Rodrigues and D Hand \$50.25

May 20, 1931—S SILVER AVE 30 E Madison St E 25 x S 125. J F Bell vs L B Terlip and G J Lehman. \$170

May 20, 1931—LOT 10 BLK 139 map Brown Est Co's Sub ptn Univ Md. Henry Cowell Lime & Cement Co vs L B Terlip. \$174.91

May 20, 1931—S GREEN 100 W Ness Ave W 26-4 x S 100. M S Peek vs F S and M Demonte. \$138.70

May 26, 1931—W BATTERY 92-5 1/2 S Pacific S 113-9 1/2 W 137-6 N 68-9 W 47-6 N 45-14 E 91 S 0-9 1/2 E 94. E A Stoneback vs Liquid Sugar Corp, Dorothy L and Rose Nordwell, Wm W Nordwell, Alfred W Nordwell, Eva N Gunn. \$80

May 26, 1931—S CHESTNUT 137-6 E Fillmore E 53x8 137-6. Soule Steel Co vs J E Baggett. \$96.32

May 26, 1931—W JONES 50 S Ellis S 50 x W 87-6. William Rosen vs Progressive Trading Co Ltd, Ben Kaplan. \$121.85

May 26, 1931—SW SAN BRUNO AVE 134 NW Burrows NW 4 x SW 120. San Bruno Ave Feed & Fuel Co vs B and Annie Stone. \$55

May 25, 1931—LOT 10 BLK 139 map Brown Est Co. Sudden Lumber Co vs L B Terlip and J G Lehman. \$ 41.61

RELEASE OF LIENS

San Francisco County

Recorded Amount
May 20, 1931—E CHURCH ST 24-10 N 23rd N 24-10 x E 70. F Griffin to Ida Detmers, Agnes I Alzamora and Bertha A Pelletier.

BUILDING PERMITS

ALAMEDA COUNTY

No. Owner	Contractor	Amnt.
611 Griffith	Brown	1000
612 Long	Walden	1700
613 Oakland	Christensen	86615
614	Owner	1500
615 Grandma	Kennedy	3000
613 Valpreda	Campomenosi	6350
620 Hansen	Owner	3000
616 Stoddard	Tranmal	6300
617 Fair	Stolte	2300
618 Edgar	McCullough	3900

621 Lafstrom Anderson 6500
 622 McArthur Anderson 2950
 623 Netherby Owner 3000
 624 Langton Schneck 5000
 625 Hemphill Smith 4000
 626 Linabaugh Owner 3000
 627 Milton Roberts 3500
 628 Cook Pickrell 1500
 629 Fleming Owner 4500
 630 Klein Owner 4000
 631 Murphy Bardwell 7500
 632 Murphy Owner 3500
 633 Leekins Owner 2000
 634 Leekins Owner 3000

ALTERATIONS
 (611) NO. 158 TUNNEL ROAD, BERKELEY. Alterations.
 Owner—Griffith.
 Architect—Not Given.
 Contractor—H. Brown. \$1000

ADDITION
 (612) NO. 4614 TYRRELL ST., OAKLAND. Addition.
 Owner—H. B. Long, 4614 Tyrrell St., Oakland.
 Architect—Not Given.
 Contractor—Jas. T. Walden, 2312 Courtland Ave., Oakland. \$1700

WAREHOUSE
 (613) FOOT OF FOURTEENTH ST., OAKLAND. One-story concrete warehouse.
 Owner—City of Oakland, Bank of America Bldg.
 Architect—Not Given.
 Contractor—H. J. Christensen, Ray Bldg., Oakland. \$86,615

ALTERATIONS
 (614) 335-39 24th ST., OAKLAND; alterations.
 Owner and Builder—C. S. Booth, 375 Euclid Ave., Oakland.
 Architect—Not Given. \$1500

FACTORY
 (615) W. ADELINE ST. 150 S 5th ST., OAKLAND; two-story factory.
 Owner—Grandma Cake Co., 335 Adeline St., Oakland.
 Architect—Not Given.
 Contractor—F. T. Kennedy, 1051 7th St., Oakland. \$3000

DWELLING
 (619) E TEMPLAR ST. 100 S Edith St., OAKLAND; one-story 6-room dwelling.
 Owner—E. Valpreda, 4527 Grove St., Oakland.
 Architect—Not Given.
 Contractor—E. Campomenosi, 6 4 0 1 Broadway Terrace, Oakland. \$5250

DWELLING
 (620) W 53rd AVE. 500 N Holland St., OAKLAND; 1-story 5-room dwelling.
 Owner and Builder—Frederick Hansen 1603 54th Ave., Oakland.
 Architect—Not Given. \$3000

ALTERATIONS
 (616) NO. 144 BONITA AVE., PIEDMONT. Alterations.
 Owner—Elgin Stoddard, 144 Bonita Ave., Piedmont.
 Architect—Not Given.
 Contractor—Enoch Trammal, 483 Crescent Road, Oakland. \$6300

ALTERATIONS
 (617) NO. 29 GLEN ALPINE, PIEDMONT. Alterations.
 Owner—Harry Fair, 29 Glen Alpine, Piedmont.
 Architect—Houghton Sawyer, 2053 Oakland Ave., Piedmont.
 Contractor—F. C. Stolte, 3449 Laguna Ave., Oakland. \$2300

STORE
 (618) 2118-20-22 TELEGRAPH AVE., BERKELEY. One-story Class C store building.
 Owner—A. R. Edgar, Granada Apts., Berkeley.

Architect—Owner.
 Contractor—C. H. McCullough, 1634 Berkeley Way, Berkeley. \$3800

DWELLING
 (621) NO. 2903 GIBBONS DRIVE, ALAMEDA. Two-story 8-room frame and stucco dwelling.
 Owner—W. Lofstrom, 1014 Doris Court, Alameda.
 Architect—Owner.
 Contractor—Walter H. Anderson, 1014 Doris Court, Alameda. \$5000

STORE
 (622) S FARNUM 37 E Fruitvale Ave., OAKLAND. One-story store.
 Owner—B. S. McArthur, 1118 Fruitvale Ave., Oakland.
 Architect—Not Given.
 Contractor—Chas. Anderson, 2142 25th Ave., Oakland. \$2950

DWELLING
 (623) W LYMAN ROAD 300 N Fruitvale Ave., OAKLAND. One-story 5-room dwelling.
 Owner—W. A. Netherby, 3533 Lyman Road, Oakland.
 Architect—Not Given. \$3000

RESIDENCE
 (624) NO. 1020 MILLER AVE., BERKELEY. Two-story 5-room frame and stucco residence.
 Owner—H. L. Langton, Jefferson Ave., San Francisco.
 Architect—Not Given.
 Contractor—S. W. Schneck, 3561 Redwood Road, Oakland. \$5000

RESIDENCE
 (625) NO. 1215 DELAWARE ST., BERKELEY. One-story 8-room 1 family frame residence.
 Owner—H. Hemphill, 1308 Delaware St., Berkeley.
 Designer—Mr. Teal.
 Contractor—J. Smith, Curtis St., Berkeley. \$1000

RESIDENCE
 (626) 950 GRIZZLY PEAK BLVD., BERKELEY. One-story 4-room and garage 1-family frame residence.
 Owner—A. N. Linabaugh, 1484 University Ave., Berkeley.
 Architect—Fox Bros. \$3000

DWELLING
 (627) E SIXTY-EIGHTH AVE 200 S Trench St., OAKLAND. One-story 5-room dwelling.
 Owner—C. E. Milton, 5142 Bond St., Oakland.
 Architect—Not Given.
 Contractor—R. G. Roberts, 3001 Fulton St., Berkeley. \$3500

DWELLING
 (628) NO. 4842 BRIDGE VIEW DR., OAKLAND. Two-story 6-room dwelling.
 Owner—Henry C. Cook.
 Architect—Not Given.
 Contractor—J. H. Pickrell, 332 Santa Clara Ave., Oakland. \$5000

DWELLING
 (629) S WISCONSIN ST. 116 E Maple Ave., OAKLAND. One-story 6-room dwelling.

Owner—John Fleming, 4261 Suter St., Oakland.
 Architect—Not Given. 4300

DWELLING
 (630) S FIFTY-EIGHTH CT. 190 E Shattuck Ave., OAKLAND. One-story 6-room dwelling.
 Owner—Mathew Glein, 5 9 6 4 Canning St., Oakland.
 Architect—Not Given. \$1000

RESIDENCE
 (631) NO. 1860 TRESTLE GLEN RD., PIEDMONT. Two-story 7-room residence and garage.
 Owner—M. A. Murphy.
 Architect—Ray Keefer, 3281 Lakeshore Blvd., Oakland.
 Contractor—Chas. E. Bardwell, 794 Lerida Ave., Oakland. \$7500

RESIDENCE
 (632) NO. 1332 LA LOMA AVE., BERKELEY. One-story 5-room 1-family frame residence.
 Owner—E. M. Murphy, 1491 La Loma Ave., Berkeley.
 Architect—W. W. Dixon, 1844 Fifth Ave., Oakland. \$3500

DWELLING
 (633) S EAST 29th ST. 500 E 23rd Ave., OAKLAND; one-story five-room dwelling.
 Owner and Builder—C. W. Leekins, 1650 Hopkins St., Oakland.
 Architect—Not Given. \$3000

DWELLING
 (634) N EAST 29th ST. 500 E 23rd Ave., OAKLAND; one-story five-room dwelling.
 Owner and Builder—C. W. Leekins, 1650 Hopkins St., Oakland.
 Architect—Not Given. \$3000

BUILDING CONTRACTS

ALAMEDA COUNTY

No. Owner	Contractor	Amt.
82 Sisters	Furlong	49553
83 First Church	Cederberg	3173
84 Baker	Scott	2787
85 Oregon	Matson	5923
86 Edgar	McCullough	5350

SCHOOL

(82) EDITH ST., DULLICH ROAD, Jacobus Ave. and Morpeth St., Oakland. All work for school.
 Owner—Sisters of the Sacred Names of Jesus and Mary.
 Architect—H. A. Minton, Bank of America Bldg., San Francisco.
 Contractor—Thomas F. L. Furlong, Emerson and Excelsior Ave., Oakland.

Paid May 29, '31. Dated May 20, '31.
 End of each month..... 75%
 Usual 35 days..... Balance
TOTAL COST, \$49,953
 Bonds (2) \$24,976.50 and \$24,076.50.
 Surety, Firemans Fund Indemnity Co. Limit, Aug. 15, 1931. Forfeit, \$5 per days. Plans and specifications filed.

CHURCH

(83) 26th and HARRISON Sts., Oakland; alterations to church building.

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
 490 GEARY STREET

Phone FRanklin 9400

San Francisco

Owner—First Congregational Church of Oakland, 26th and Harrison Sts. Oakland.
 Architect—E. Geoffrey Bangs, 411 30th St., Oakland.
 Contractor—A. Cedertorg, 1455 Excelsion Ave., Oakland.
 Filed May 22, '31. Dated May 4, '31.
 Tenth of each month.....75%
 Usual 35 days.....35%
 TOTAL COST, \$3173
 Limit, July 9, 1931. Plans and Spec. filed.

HEATING SYSTEM
 (84) E OXFORD ST. 65 S of Virginia St., Berkeley; furnish and install steam heat system.
 Owner—Max Bakar, 676 Alma Avenue, Oakland.
 Architect—Not Given.
 Contractor—The Scott Co., 113 10th St. Oakland.
 Filed May 22, '31. Dated May 18, '31.
 When roughed in.....\$1332.50
 When completed.....727.50
 30 days after completion.....727.50
 TOTAL COST, \$2787.50

ELECTRIC WIRING
 (95) 1445 23rd AVE., Oakland; electric wiring on theatre building.
 Owner—The Oregon and California Amusement Company.
 Architect—Reid Bros., 105 Montgomery St., San Francisco.
 Contractor—Matson-Seabrooke Co.
 Filed May 22, '31. Dated May 18, '31.
 7th of each month, 75% of half the value, Inc.
 Usual 35 days remaining 25% of contract price, and two notes for \$1450.75 each. TOTAL COST, \$5923
 Bond, \$5923. Sureties, Fidelity & Deposit Co. of Maryland. Plans and Spec. filed.

STORE
 (86) TELEGRAPH AVE. 50 ft South of Alston Way, Berkeley; general construction on one-story concrete store building.
 Owner—E. R. Edgar, Berkeley.
 Architect—Not Given.
 Contractor—Chas. McCullough, 1634 Berkeley St., Berkeley.
 Filed and Dated May 25, 1931.
 3rd and 17th of each month.....75%
 40 days after acceptance filed.....25%
 TOTAL COST, \$5350
 Limit, July 15, 1931. Plans and Spec. filed.

Blk 3, Chester Tract, Alameda.
 Elv J and Anna Haavik to whom it may concern.....May 14, 1931
 May 22, 1931—LOT 136, Crocker Highlands, Hobart and Etta Schill
 May 22, 1931—BEG at POINT bearing 85 deg 11 min 10 sec E 113-72 ft from the most northerly corner of Lot 11 Blk S, etc, map of Melrose Acres, Oakland.—E M Plumley to Fred T Dooley.....May 20, 1931
 May 21, 1931—LOT 33 and Ptn Lots 32 and 34 Blk 27, Map No. 8 of Regents Park, Albany. Alton E Gould to whom it may concern.....May 20, 1931
 May 21, 1931—NO. 436 BOYNTON S Boynton St., Arlington, Berkeley. Hughes & Beach to whom it may concern.....May 15, 1931
 May 20, 1931—LOT 21 BLK 13, Oakmore Highlands, Oakland. Warn Bros to whom it may concern.....May 20, 1931
 May 21, 1931—NO. 4921 FRODOB Ave., Oakland. W A Netherby to whom it may concern.....May 18, 1931
 May 20, 1931—NO. 3924 PENNIMAN Ave., Oakland. Charles and Anna C Anderson to whom it may concern.....May 19, 1931
 Rogers to G H Wendt.....May 19, 1931

BUILDING CONTRACTS

SAN MATEO COUNTY

RESIDENCE
 PART LOT 155, San Mateo Park, San Mateo. All work for two-story frame and stucco residence.
 Owner—L. L. Edwards.
 Architect—E. G. McDougall, 353 Sacramento St., San Francisco.
 Contractor—E. T. Letter & Son, Filed May 20, '31. Dated May 9, '31.
 COST + 7 1/2%.....
 TOTAL COST (limit) \$11,550
 Bond, none. Limit, 100 working days. Forfeit, \$10. Plans and specifications filed.

BUNGALOW COURT
 PART LOTS 1, 3, 19 AND 20 and all of Lots 2, 14, 15, 16, 17 and 18 Blk 24 San Carlos. All work for two-story stucco bungalow court.
 Owner—Robert A. Klassen et al, Redwood City.
 Architect—Ernest L. Norberg, 407 Occidental Ave., Burlingame.
 Contractor—G. W. Williams Co., Ltd., 1404 Broadway, Burlingame.
 Filed May 23, '31. Dated May 19, '31.
 As work progresses.....75%
 Usual 35 days.....35%
 TOTAL COST, \$44,953
 Bond, none. Limit, 90 working days. Forfeit, \$20. Plans and specifications filed.

LIENS FILED

ALAMEDA COUNTY

Recorded	Amount
May 25, 1931—NW 26th & LINDEN Sts, Oakland. H S Roberts vs Grace B Leibbrandt.....	\$116
May 25, 1931—2618-A COLLEGE AVE Berkeley. Bear Furring Co vs J P and E Peterson, H K Cornbrink.....	\$34.61
May 23, 1931—LOT 9 BLK 12, map No 8 of Regents Park, Albany. Percy Richardson vs Marian A. and Harold Lewis.....	\$56
May 22, 1931—LOTS B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, ptn lots B and D blk 62, lots A, E, C, D, E, F, blk 64, Alameda Park Homestead, Alameda. L H Beck vs A E J Duchesnay, A Ruef Commercial Center Realty Co.....	\$3453.29
May 20, 1931—NO. 1729 TRESTLE Glen Road, Oakland. Gordon Lansing vs R F Kyle and Earnest R Jervis.....	\$87.50
May 20, 1931—NO. 1714 TRESTLE Glen Road, Oakland. Gordon Lansing vs R F Kyle and Earnest R Jervis.....	\$87.50

RELEASE OF LIENS

Alameda County

Recorded	Amount
May 22, 1931—1520-1522 HARRISON St, Oakland. Jas A Davis Co to Mabel T Pease, Ethel Fletcher Gross, Bessie S Richardson, J A Gage, Stephen N Gage, G G Erickson, E C Erickson, B C Erickson and Hugh Hogan.....	\$24.94
May 22, 1931—LOT 8 and ptn lot 7, map of Alice Park Property, Oakland. Hutchinson Co to Mabel Thornton Pease, Ethel Fletcher Gross, Bessie S Richardson, Jane A and Stephen Norris, G G Erickson also known as G F Erickson or C G Erickson and Hugh Hogan.....	\$160
May 21, 1931—NO. 840 E ST., Oakland. Boorman Lumber Co to Pacific States Auxiliary Corporation.....	\$31.51
May 21, 1931—NO. 1520-1522 HARRISON St., Oakland. Scott-Buttner Elec Co to Mabel T Pease.....	\$63.50
May 20, 1931—LOT 8 and Ptn Lot 7, Map of Alice Park Property, Oakland. Chester A Bray to Thos F Jacques and Mabel Thornton Pease.....	\$37.72
May 20, 1931—NO. 1520 TO 1522	

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
May 18, 1931—LOT 11 BLK 1, Part-ridge Sub., Menlo Park. Harry G Carison to E W Aldrich.....	May 20, 1931
May 19, 1931—EL CAMINO REAL Santa Seide Georgi St, Redwood City. Kerman Robson to A Dini et al.....	May 18, 1931
May 19, 1931—APPROX 2.516 ACRES Croiland Tract, San Mateo. Chas S Chery to D B Gladstone.....	May 14, 1931
May 19, 1931—LOT 20, San Mateo Park. Lengfeld & Olund to whom it may concern.....	May 14, 1931
May 20, 1931—LOT 155, West End Homestead Association. John Bjorkman to whom it may concern.....	May 14, 1931
May 21, 1931—LOT 9 BLK 25, Easton Sub. R F Williams alias to G W Williams Co., Ltd.....	May 19, 1931
May 21, 1931—LOT 53, North Fair Oaks. Mary C Murphy to whom it may concern.....	May 15, 1931
May 21, 1931—LOT 9 BLK 11, Sweeney Addition, Redwood City. Dave Walter to Fred Carlisle.....	May 21, 1931
May 22, 1931—REDWOOD SLOUGH. State of California to Bodenhamer Constr Co.....	May 18, 1931
May 22, 1931—PART LOT 1, BLK 1, Burlingame Hills No. 2. Frank W Smith et al to Harry C Knight.....	May 14, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
May 20, 1931—LOT 12 BLK A, Fay's Redwood Gardens. Mintage Range & Furnace Co, Ltd, \$124.65; Merner Lumber Co, \$48.75 vs J L Lehman.....	
May 21, 1931—LOT 12 BLK A, Fay's Redwood Garden. Hundevadt &	

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded	Accepted
May 26, 1931—PTN LOT E McNeill Tract, Oakland. A E Clark and W L Moore to A E Waldman.....	May 15, 1931
May 26, 1931—PTN LOT E, McNeill Tract, Oakland. Folke Wallin to Folke Wallin.....	May 20, 1931
May 25, 1931—801 NO AND Colusa Aves., Berkeley. W J Kamenzind to W E Lyons.....	May 23, 1931
May 25, 1931—LOT 321 and ptn Lot 319, Terminal Junction, Tract, Albany. Sophie M Furst to whom it may concern.....	May 20, 1931
May 25, 1931—5827 25th AVE, Oakland. John Fleming to whom it may concern.....	May 25, 1931
May 23, 1931—PTN LOT 4, map of the Duncan Cameron Tract, San Lorenzo. A F and Olive C Hanson to whom it may concern.....	May 22, 1931
May 21, 1931—LOT 20, Durant Manor Oakland. Worden P and Bernice I Stiles to whom it may concern.....	May 20, 1931
May 22, 1931—4 1/2 MONTEREY Blvd, Oakland. W H Warren to whom it may concern.....	May 14, 1931
May 23, 1931—PTN LOTS 9 and 10	

Peterson vs J G Lehman et al. \$39.17
 May 22, 1931—LOT 1 BLK 13, Crocker
 Tract, San Mateo. L Stock-
 ton Lumber Co vs R H Davis.....
 \$73.65

BUILDING PERMITS

REDWOOD CITY

DWELLING, frame, 6-room, bath and
 garage, \$3400; No. 561 Encina Ave.
 Redwood City; owner, C. E. Elliott,
 412 Staunough St., Redwood City;
 contractor, E. G. Steingger, 81
 Foothill Blvd., Redwood City.
 DWELLING, frame, 6-room, bath and
 garage, \$4000; No. 1147 Clinton St.,
 Redwood City; owner, A. Hazell-
 ling; contractor, A. B. Goss.
 DWELLING, frame, 6-room, bath and
 garage, \$3500; No. 441 Grand St.,
 Redwood City; owner, B. Theiler;
 contractor, Morris & Welner.
 DWELLING, frame, \$3800; No. 457
 Hudson St., Redwood City; owner,
 John E. McCarthy.
 DWELLING, frame, 5-rooms, bath and
 garage, \$5000; No. 151 Stratford
 St., Redwood City; owner, H. T.
 Thiel; contractor, E. Berndtsen.

BUILDING PERMITS

BURLINGAME

BUNGALOW, \$5000; Lot 26 Blk 4 B G,
 Capuchino St., Burlingame; owner,
 E. L. Heathcote; contractor, Geo.
 W. Williams Co., 1404 Broadway,
 Burlingame.

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$6000; No. 213
 Dana Avenue, Palo Alto; owner,
 Palo Alto Land Co; architect, W.
 H. Dixon; contractor, J. E. Hanson
 RESIDENCE, stucco, \$4000; No. 240
 Escobita Ave., Palo Alto; owner,
 H. G. Nauman, 1161 Lincoln Ave.,
 Palo Alto; architect, Gilbert Hodg-
 son; Daniel Stafford Bldg., Red-
 wood City; contractor, D. C. Law-
 son, 354 Leland Ave., Palo Alto.
 ALTER store, \$1000; No. 314 Univer-
 sity Ave., Palo Alto; owner, Uni-
 versity Creamery, Premises; con-
 tractor, John Mosen, 765 Hamil-
 ton St., Palo Alto.

BUILDING PERMITS

SAN JOSE

RESIDENCE, duplex, frame, 4 rooms
 each, \$5500; Second St. near Mis-
 sion St., San Jose; owner and
 contractor, Geo. Koehler, Commer-
 cial Bldg., San Jose.
 BUSINESS building, Class C, \$1250;
 S-First St. near Sutter, San Jose.
 owner, Wm. Mozzett, 540 S-
 Twelfth St., San Jose; architect,
 Charles McKenzie, Twohy Bldg.,
 San Jose.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted
 May 23, 1931—ON 1.882 ACRES ON
 Sunnyoaks Ave Part Lot 11, Sun-
 nyoaks Tract, San Jose. Hazel
 V Rohan to whom it may concern
 May 18, 1931
 May 23, 1931—LOT 12 BLK 7 R 4 S
 Snow & Pettas Addn, San Jose.
 Floyd Carroll to whom it may
 concern..... May 19, 1931
 May 25, 1931—LOT 29, Kellogg Tract,
 San Jose. Earl B Swanson to
 whom it may concern. May 22, 1931
 May 25, 1931—LOTS 14 AND 15 BLK

4, Vendome Park No. 2, San Jose.
 Thomas Mackay to whom it may
 concern May 25, 1931
 May 25, 1931—SW CHURCH 200 NW
 Calderon Ave., Mt. View. H S
 Moore to whom it may concern
 May 5, 1931
 May 25, 1931—PART LOTS 68 & 69
 Walsh Residential Tract No. 2,
 San Jose. Rutherford B Martin
 et al to whom it may concern.....
 May 25, 1931
 May 25, 1931—ON 10.514 AC ON
 Quarry Rd Pt. Ppty Leland Stan-
 ford Junior University. The City
 of Palo Alto to whom it may con-
 cern May 22, 1931
 May 25, 1931—LOT 11 Ball Tract, Los
 Gatos. Laurence G. Case et al to
 whom it may concern. May 29, 1931
 May 25, 1931—LOT 20 BLK 1, North
 Glen Residence Park. Rollie Wil-
 liams et al to whom it may concern
 May 22, 1931
 May 28, 1931—CALIFORNIA AVE AND Y
 Berryessa Road, San Jose. Berry-
 ession Union School District to whom
 it may concern (work on school).
 April 22, 1931

May 20, 1931—LOTS 63 AND 64 BLK
 2, Craven Park, San Jose. Ruth
 Craven et al to whom it may con-
 cern May 17, 1931
 May 21, 1931—No. 715 HOMER AVE
 Part Lot 2 Blk 65, Palo Alto.
 Mrs. O Halsey to whom it may
 concern May 16, 1931
 May 21, 1931—NE FENTER AVE &
 S. Jose and San Francis Road
 (3 acres). Frank F Conrad to
 whom it may concern. May 21, 1931
 May 21, 1931—W CRESCENT DR
 100 ft. N Hamilton Ave N 74.01 W
 96.5 S 60 E 104.91 to beg Part Lot
 10 Blk 119, Crescent Park. C
 W and Leona B Kemper to whom
 it may concern May 21, 1931
 May 13, 1931—LOT 6 BLK 7, Re-
 survey of Palm Haven. Joe R Sa-
 batie to Gibson Wheeler.
 May 15, 1931
 May 16, 1931—LOT 23, Clara Vista
 Addition, San Jose. Virginia M
 Spinks to whom it may concern.....
 May 14, 1931
 May 16, 1931—LOTS 11 AND 12 BLK
 73, Morgan Hill. C A Hatch to
 whom it may concern. May 15, 1931
 May 16, 1931—LOT 15 BLK 2, San
 Jose Park Tract, San Jose. Joseph
 F Lopes et al to whom it may
 concern May 15, 1931

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
 May 23, 1931—3 ACRE PT. SE 1/4 of
 Sec 28 Twp 7 S R 2 W. Robert
 Tower vs Ellis E Kennedy.....\$253.43
 May 15, 1931—20.315 AC ON SW Doyle
 and Railroad r/w part Quito
 Rancho. H M Keister vs J Joe
 Cocchi et al \$1050
 May 21, 1931—LOT 8 BLK 1, Santa
 Altos No. 1. Norton Phelps Lum-
 ber Co vs Geo H Fullridge.....\$160
 May 21, 1931—SE SECOND AND
 Taylor Sts., San Jose. Parcel
 Plumbing Co vs Benedito de Marco
 189.62

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
 May 25, 1931—LOT 8 BLK 12, Los
 Altos No. 1. Norton-Phelps Lum-
 ber Co to Geo H Fullridge.....
 May 15, 1931—LOTS 4, 5 AND 6,
 Boulevard Tract, San Jose. Jas
 L McElroy et al to H W Sampson
 May 16, 1931—LOT 15 BLK 13, Sun-
 nyvale Addition No. 2. Tilden Mill
 & Lumber Co to Ezar Bishop.....
 May 21, 1931—SW SECOND AND

Taylor Sts., San Jose. Parcel
 Plumbing Co to Benedito De Marco
 et al

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
 May 12, 1931—CORTE MADERA.
 Effie P Ingersoll to whom it may
 concern May 10, 1931
 May 14, 1931—FAIRFAX TRACT,
 San Anselmo. D Harold Sullivan
 to whom it may concern. May 13, 1931
 May 16, 1931—FAIRFAX, Dr. Har-
 old Sullivan to whom it may con-
 cern May 14, 1931
 May 18, 1931—AGATHA COURT, San
 Anselmo. J M Lacoste to Otis H
 Smith May 16, 1931

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 May 16, 1931—S 1/2 LOT 10 AND N 1/2
 Lot 11 Blk 7, Froctor Terrace Ad-
 dition to Santa Rosa. Arthur W
 and Alice Edman to Mutual Home
 Builders Assn..... May 15, 1931
 May 22, 1931—LOTS 1 TO 12, incl.
 1st Subd of Rogers Tract, 94.48
 acres and other property. C W
 Loose to Blauze Selvaige. May 16, 1931

LIENS FILED

SONOMA COUNTY

Recorded Amount
 May 15, 1931—70x150 FT. BLK 25,
 McDonald Addition to Santa Rosa.
 Steve Regalia vs W T and Eliza-
 beth Owen \$40+36.00
 May 20, 1931—2.75 IN SONOMA
 County. Camm & Hedges vs
 Secondo L and Mary Oriandini.....
 \$254.44, interest and costs

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 May 19, 1931—LOT 38 and N 1/2 Lot
 37 Blk 6, Richmond City Center.
 Earl W Peck to whom it may con-
 cern May 13, 1931
 May 19, 1931—LOTS 16 AND 17 BLK
 4, Richmond Center. Royal E and
 Emma Sweet to whom it may con-
 cern May 18, 1931
 May 20, 1931—LOT 13 Blk 15, E
 Tenney Terrace. Peter H Wing,
 1435 Lillian St., Valona, Calif. to
 whom it may concern..... May 18, 1931
 May 21, 1931—LOT 5 and E 12 1/2 ft.
 rear and front measurement of Lot
 4 Blk 34, Spaulding Richmond
 Pulman Townsite. W Vernon
 Bernard to whom it may concern
 May 19, 1931
 May 22, 1931—PTN BLK 26, Map of
 Spaulding Richmond P u l m a n
 Townsite. Richmond School Dist.
 to George A Schuster..... May 19, 1931
 May 22, 1931—PTN BLK 26, Spauld-
 ing Richmond Pulman Townsite.
 Richmond School District to P M
 Sanford May 19, 1931
 May 22, 1931—LOT 15 BLK 27, Town
 of Bay Point. T C Martin to C C
 Petersen May 23, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 May 22, 1931—LOTS 3 AND 4 BLK
 6, Richmond Pulman Home Tract.
 Jas A Davis Co and A M Hite vs
 Emil George Anderson\$54.78

BUILDING PERMITS

STOCKTON

DWELLING, rustic, 6-room and garage, \$4500; No. 1534 Lucerne Ave., Stockton; owner, Douglas Heller, 2113 N-California St., Stockton; contractor, E. Merlo, Moreings Lane, Stockton.

DWELLING, 5-room & garage, \$2700; No. 425 E-First St., Stockton; owner, Max Newman.

ADDITION to dwelling, \$1930; No. 805 South Regent St., Stockton; owner, A. B. Cohn, Premises; contractor, B. T. Parsons, 902 Beatrice St., Stockton.

DWELLING, stucco, 6-room and garage, \$3450; No. 1605 Oxford Ave., Stockton; owner, Tom De Martini contractor, E. Merlo, Moreings Lane, Stockton.

ADDITION to dwelling, \$1500; No. 630 E-Lindsay St., Stockton; owner, Mrs. L. Crane, Premises; contractor, McCarty & Harrington.

COMPLETION NOTICES

MONTREY COUNTY

Recorded Accepted
 May 21, 1931—LOT 7, Maple Park Additions, Monterey. J Frank Laughton to whom it may concern..... May 20, 1931

May 22, 1931—LOT 12 BLK 192, Map of Hillcrest Tract, City of Pacific Grove. Vern L B Stalter to whom it may concern..... May 20, 1931

May 22, 1931—LOT 12 BLK 192 Map of Hillcrest Tract, City of Pacific Grove. Vern L B Stalter to whom it may concern..... May 20, 1931

LIENS FILED

MONTREY COUNTY

Recorded Amount
 May 23, 1931—LOTS 1, 2, 3 and 4 Blk 65, Map of East Monterey. Frank V Lara vs William Forkner and Edith A Roberts.....\$92.30

LIENS FILED

SAN JOAQUIN COUNTY

Recorded Amount
 May 20, 1931—PTN OF SOUTH ¼ of NW ¼ of Section 31, Township 3, North Range 7 East, Stockton. Joe Lick vs A H Alexander and T M Morgan and Wife.....\$1611

BUILDING PERMITS

SACRAMENTO

RESIDENCE and garage, \$5000; No. 710 59th St., Sacramento; owner, J. Haworth, Rt. 5, Box 900, Sacramento.

RESIDENCE and garage, \$5250; No. 1800 Valjejo Way, Sacramento; owner, Watson & Bennie, 2719 5th Ave., Sacramento.

RESIDENCE and garage, \$6300; No. 1132 3rd Ave., Sacramento; owner and contractor, C. C. Ruby, 4800 T St., Sacramento.

RESIDENCE and garage, \$4500; No. 2747 Matry Way, Sacramento; owner, Lawrence & McCarthy, 4848 10th Ave., Sacramento.

RESIDENCE and garage, \$4750; No. 4908 T St., Sacramento; owner, E. Gilkey, 700 46th St., Sacramento.

GENERAL repairs, \$900; No. 1416 3rd St., Sacramento; owner, M. Payne, 1418 2nd St., Sacramento; contractor, J. A. Saunders, 1045 45th St., Sacramento.

RESIDENCES (2) and garages, \$6000 each; 200 36th St. and 3831 Me-

Kinley Blvd., Sacramento; owner and contractor, C. Thompson, 3443 Sacramento Blvd., Sacramento.

HOUSE and garage, \$5500; No. 3716 T St., Sacramento; owner, C. Lambert, 2911 P St., Sacramento.

HOUSE and garage, \$6750; No. 1143 Marian Way, Sacramento; owner, N. C. Smith, 1925 35th St., Sacramento; contractor, E. Corum, 2655 Donner St., Sacramento.

HOUSE and garage, \$5000; No. 2570 Land Park Drive, Sacramento; owner, A. Ward, 1315 ½ E St., Sacramento; contractor, F. C. Stabenaw, 3241 6th Ave., Sacramento.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
 May 25, 1931—LOT 505 Swanston Park Unit 2. O N and Adeline May Halset to whom it may concern..... May 25, 1931

May 21, 1931—S 36 FT. OF N 60 FT. Lot 8 J, K, 10th and 11th Sts., Sacramento. G C Simmons to whom it may concern.....May 18, 1931

LIENS FILED

SACRAMENTO COUNTY

Recorded Amount
 May 21, 1931—Lots 3, 4, 5, 6, 7, 8, 9 10 and 11 Alhambra Tract Sacramento. Allyn L Burr Co vs Fred Kaiser; Edward and Frances Wahl and Edward Pease and Zue Geary.....\$178.50

BUILDING PERMITS

FRESNO

DWELLING and garage, \$3900; No. 452 Harvard Ave., Fresno; owner, Taylor-Wheeler, Inc., Power Co., Bldg., Fresno.

DWELLING and garage, \$3500; No. 331 Ferger Ave., Fresno; owner, A. Gassmann, 1512 Bremer St., Fresno

DWELLING and garage, \$4000; No. 1452 Wilson Ave., Fresno; owner, George and Annie Lehman, 371 N-First St., Fresno.

DWELLING and garage, \$3000; No. 1374 Hoeding Ave., Fresno; owner, Carl Gustafson.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 May 21, 1931—LOT E BLK 10, Alta Vista Terrace, Fresno. R P Moore to various contractors.....May 21, 1931

May 21, 1931—LOTS 29 AND 30 BLK 32, Sierra Vista Addition, Fresno. Frank K Winchester to whom it may concern.....May 29, 1931

May 23, 1931—LOTS 43 AND 44 BLK 7, Palm Grove. W S Proctor to whom it may concern.....May 23, 1931

May 23, 1931—LOTS 25 AND 26 BLK 3, Allen Benford Terrace, Fresno. Susie Nihlo to whom it may concern.....May 23, 1931

May 23, 1931—LOTS 7 AND 8 BLK 7, Erikson Addition, Kingsburg. Fred E Danielson to Citizens Lumber Co.....May 21, 1931

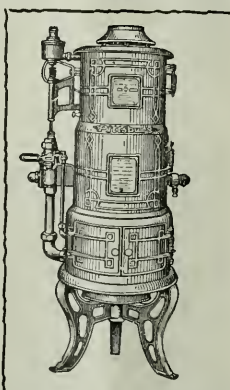
May 20, 1931—LOTS 25 AND 26 BLK 4, Sierra Vista. A R Smith to Various contractors.....May 20, 1931

LIENS FILED

FRESNO COUNTY

Recorded
 June 9, 1931—SE ¼ OF NW ¼ of Section 19, 14-22, Fresno. Lewis Electric Co vs Jacob and Margaret Constans.....\$58

From and after June 1, 1931, the San Francisco Department of Electricity will approve the use of electrical metallic tubing insofar as it is permitted by the 1930 Code, and the changes as recommended by the Electrical Committee of the National Electrical Code. The announcement is made by Ralph W. Wiley, chief of the department.



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Publication Office
547 Mission Street

SAN FRANCISCO, CALIF., JUNE 6, 1931

Published Every Saturday
Thirty-fifth Year, No. 23



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San Francisco

Building and Engineering News

Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

Issued Every Saturday

SAN FRANCISCO, CALIF., JUNE 6, 1931

Thirty-fifth Year, No. 23

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Building and Engineering News will be sent to subscribers until ordered stopped and all orders to discontinue must be sent in writing to this office.

\$1,903,200 ROAD PROJECTS APPROVED

Highway construction projects involving an expenditure of \$1,903,292 and including a reduction of 3.8 miles in the distance between Sacramento and Oakland have been approved by the State Highway Commission, it is announced by C. H. Purcell, state highway engineer.

The Sacramento-Oakland project will cost \$319,600. In addition, the route between Sacramento and Oakland will be reduced another five miles, or a total of 8.8 miles, when the Kline-Edwards bill, providing a new route through the American canyon become effective.

Under the plan approved by the commission, the new route will leave the present highway west of Fairfield, Solano county, near the Solano County Hospital, and continue in a southerly direction, paralleling the electric railroad, to Cordelia.

The expenditure of \$931,000 for rerouting the Coast highway between Los Alamos and Santa Maria in Santa Barbara County, which will reduce the distance between these cities, was approved by the commission.

Rerouting of the Golden State highway through Eakersfield at a cost of \$632,000 was authorized and the commission also approved a plan for the state to assume jurisdiction of the streets in the city of Sonoma for maintenance. These streets are a continuance of the state highway through Sonoma.

PROGRAM OF PUBLIC WORKS IN BELGIUM

The Belgian government has a program of public works which, with other projects now under consideration will involve an expenditure exceeding \$100,000,000.

The most important is construction of the Albert Canal, to link Antwerp directly to the River Meuse at Liège, work on which was started in 1920. The construction will take eight years and will cost \$20,000,000.

A tunnel under the Scheldt at Antwerp to cost \$9,000,000 has been started. In Brussels a \$20,000,000 plan is under consideration for reconstructing the railway system, involving the modernization and enlargement of the stations and the construction of a uniting line with six tracks and a station in the center of the city.

Railway electrification is being investigated, particularly on the Brussels-Antwerp and Brussels-Luxembourg lines, and large orders will be placed shortly for building stock for the various railroads. Rapid progress is being made in Brussels on the construction of the Charleroi Canal.

International Road Machinery Exposition will be held July 20-26 at Los Angeles. This new show is under the direction of E. G. Lenzer, P. O. Box 338, Watts Station, Los Angeles.

Surveyor and Aide Given Jail Sentence

Probation under drastic terms for a period of five years was granted by Superior Judge L. W. Fulkerth at Modesto to John H. Hoskins, former Stanislaus County surveyor and Henry C. Greene, one of his assistants. Both had pleaded guilty to altering county payrolls.

Under terms of the probation, each man must serve two years in the county jail and restore within ten days the sum of \$5212 taken by the padding of payrolls. They also must pay an additional \$900 for a special audit made of the books of the surveyor's office under the term of Hoskins.

Attorney Thomas C. Boone, counsel for the accused, said both sums will be paid within the ten days.

Failure to make both payments, totaling \$6012, will be construed as a violation of terms of the probation, Judge Fulkerth declared, and both men will go to San Quentin Prison.

The two-year jail term was said by court attaches to be the longest ever given in a probation case.

Development of Rigid Conduit for Electrical wiring

For the purpose of inquiring into the experience which has attended the use of rigid conduit as a protective electrical raceway the Electrical Testing Laboratories of New York have prepared a critical history of the development of rigid conduit, which has just been published by the Trade Extension Committee of the Rigid Conduit Section of the National Electrical Manufacturers Association.

While an academic study of the origin of this important electrical raceway, this book has much of interest and value to architects, electrical engineers, contractors and inspectors. It reveals the various attempts to eliminate hazards that developed in the early days when slightly protected wiring was buried behind plastered walls, in damp places and in positions subject to mechanical abuse. It points out the trial and failure of pasteboard and thin wall metal tubings of various types; the attempt to use a wood lined metal tubing and finally the successful employment of heavy wall mild steel conduit with suitable protective coatings which was "approved" by the first National Electric Code in 1897 and which has been employed to the present day with practically no changes in form or characteristics.

The document will have a particular appeal to the serious student of electrical products and their proper use. Copies of the Report may be secured by writing to George H. Sicard, Secretary, Rigid Conduit Section, U. S. N. E. C., New York.

MAY BUILDING TOTALS \$2,853,671

Building operations in San Francisco for the month of May, 1931, involved an expenditure of \$2,853,671, according to John B. Leonard, superintendent of the Bureau of Building Inspection of the Department of Public Works. During the month 530 permits were issued.

May, 1930, totals registered 570 permits for improvements valued at \$2,831,110. During April, 1931, 703 permits were granted for construction costing \$1,837,433.

Building operations undertaken during the first five months of this year involved an expenditure of \$10,324,887 as compared with \$10,316,120 for the corresponding period in 1930. During the past five months 2,758 permits were granted as compared with 2346 permits for the same period in 1930.

The May, 1931, operations include construction in connection with the War Memorial and Opera House Project, estimated at \$1,000,000.

Following is a segregated report of the May, 1931, activities:

	No.	Amount
Class B.....	2	\$ 210,000
Class C.....	14	308,630
Frames.....	180	855,731
Alterations.....	31	158,702
Public Bldg.....	1	1,000,000
Govt. Bldgs.....	2	310,698
Total.....	530	\$2,853,671

LUMBER ORDERS BELOW PRODUCTION

Orders for lumber received at the mills during the week ended May 16 were approximately 9 per cent under production. It is indicated in telegraphic reports from 775 leading hardwood and softwood mills to the National Lumber Manufacturers Association. This is the third successive week and the fourth week this year showing an unfavorable order-production ratio, though the cut has been low. Production for the latest week reported by these mills amounted to 234,257,000 feet. Shipments were 4 per cent above this figure. A week earlier orders reported by 787 mills were 8 per cent below and shipment 1 per cent below a total of 237,137,000 feet. Comparison by identical mill figures of reports for the latest week with those for the equivalent period a year ago shows—for softwoods, 457 mills, production 34 per cent less, shipments 24 per cent less and orders 34 per cent less than for the week in 1930; for hardwoods, 206 mills, production 42 per cent less, shipments 15 per cent less and orders 21 per cent under the volume for the week a year ago.

Tice Lumber and Planing Mill in Del Monte Avenue, Monterey, suffered a \$10,000 fire loss last Wednesday. The loss is partially covered by insurance.

PREVAILING WAGE BILL IS SIGNED BY GOVERNOR ROLPH

The people of the State of California do enact as follows:

Section 1. Not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which the work is performed, and not less than the general prevailing rate of per diem wages for legal holiday and overtime work, shall be paid to all laborers, workmen and mechanics employed by or on behalf of the State of California, or by or on behalf of any county, city and county, city, town, district or other political subdivision of the said state, engaged in the construction of public works, exclusive of maintenance work. Laborers, workmen and mechanics employed by contractors or subcontractors in the execution of any contract or contracts for public works with the State of California, or any officer or public body thereof, or in the execution of any contract or contracts for public works with any county, city and county, city, town, township, district or other political subdivision of said state, or any officer or public body thereof, shall be deemed to be employed upon public works.

Sec. 2. The public body awarding any contract for public work on behalf of the State of California, or on behalf of any county, city and county, city, town, township, district or other political subdivision thereof, or otherwise undertaking any public works, shall ascertain the general prevailing rate of per diem wages in the locality in which the work is to be performed, for each craft or type of workman or mechanic needed to execute the contract, and shall specify in the call for bids for said contract, and in the contract itself, what the general prevailing rate of per diem wages in the said locality is for each craft or type of workmen needed to execute the contract, also the general prevailing rate for legal holiday and overtime work, and it shall be mandatory upon the contractor to whom the contract is awarded, and upon any subcontractor under him, to pay not less than the said specified rates to all laborers, workmen and mechanics employed by them in the execution of the contract. The contractor shall forfeit as a penalty to the state or political subdivision, district or municipality on whose behalf the contract is made or awarded, ten dollars for each laborer, workman, or mechanic employed, for each calendar day, or portion thereof, such laborer, workman or mechanic is paid less than the said stipulated rates for any work done under said contract, by him, or by any subcontractor under him, and the said public body awarding the department of industrial relations or by said awarding body; and provided, further, that in all cases of contracts with assessment or improvement districts where full payment is contract shall cause to be inserted in the contract a stipulation to this effect. It shall be the duty of such public body awarding the contract, and its officers and agents, to take cognizance of complaints of all violations of the provisions of this act committed in the course of the execution of the contract, and, when making payments to the contractor of moneys becoming due under said contract, to withhold and retain therefrom all sums and amounts which shall have been forfeited pursuant to the herein said stipulation and the terms of this act; provided, however,

Governor Rolph has signed Senate Bill No. 26, known as the "prevailing wage bill," passed by the Legislature, and it will go into effect August 14 next, 90 days after adjournment of the Legislature. This bill provides that on all public works in California the wages to be paid shall not be less than the "general prevailing rate" in the locality where the work is being done. This prevailing rate of wages is to be determined by the contracting authority, is to be inserted in the advertisement for bids and is finally to be incorporated in the contract for the work involved. A penalty of \$10 per each violation of the law is provided.

that no sum shall be so withheld, retained or forfeited, except from the final payment, unless the said contractor, without a full investigation by either the division of labor statistics and law enforcement of the state made in the form of a single warrant, or other evidence of full payment, after completion and acceptance of the work, the awarding body shall accept from the contractor in cash a sum equal to, and in lieu of, any amount required to be withheld, retained or forfeited under the provisions of this section and said awarding body shall then return the said warrant or payment in full. It shall be lawful for any contractor to withhold from any subcontractor under him sufficient sums to cover any penalties withheld from him by the awarding body on account of the said subcontractor's failure to comply with the terms of this act, and if payment has already been made to him the contractor may recover from him the amount of the penalty or forfeiture in a suit at law.

Sec. 3. The contractor and each subcontractor shall keep, or cause to be kept, an accurate record showing the names and occupations of all laborers, workmen and mechanics employed by him, in connection with the said public work, and showing also the actual per diem wages paid to each of such workers, which record shall be open at all reasonable hours to the inspection of the public body awarding the contract, its officers and agents, and to the chief of the division of labor statistics and law enforcement of the state department of industrial relations, his deputies and agents.

Sec. 4. Construction work done for irrigation, utility, reclamation, improvement and other districts, or other public agency or agencies, public office or body, as well as street, sewer and other improvement work done under the direction and supervision or by the authority of any officer or public body of the state, or of any political subdivision, district or municipality thereof, whether such political subdivision, district or municipality thereof operates under a freeholder's charter heretofore or hereafter approved or not, also any construction or repair work done under contract, and paid for in whole or in part out of public funds, other than work done directly by any public utility company pursuant to order of the railroad commission or other public authority, whether or not done under public supervision or direction, or paid for

wholly or in part out of public funds, shall be held to be "public works" within the meaning of this act. The term "locality in which the work is performed" shall be held to mean the city and county, county or counties in which the building, highway, road, excavation or other structure, project, development or improvements is situated in all cases in which the contract is awarded by the state, or any public body thereof, and shall be held to mean the limits of the county, city and county, city, town, township, district or other political subdivisions on whose behalf the contract is awarded in all other cases. The term "general prevailing rate of per diem wages" shall be the rate determined upon as such rate by the public body awarding the contract, or authorizing the work, whose decision in the matter shall be final. Nothing in this act, however, shall be construed to prohibit the payment to any laborer, workman or mechanic employed on any public work as aforesaid of more than the said general prevailing rate of wages, nor shall anything in this act be construed to permit any overtime work in violation of section 6530 of the Penal Code.

Sec. 5. Any officer, agent or representative of the State of California, or of any political subdivision, district or municipality thereof, who willfully shall violate, or omit to comply with, any of the provisions of this act, and any contractor, or subcontractor or agent or representative thereof doing public work as aforesaid, who shall neglect to keep, or cause to be kept, an accurate record of the names, occupations and actual wages paid to each laborer, workman and mechanic employed by him, in connection with the said public work or who shall refuse to allow access to same at any reasonable hour to any person authorized to inspect same under this act, shall be guilty of a misdemeanor, and upon conviction shall be punished by a fine of not exceeding five hundred dollars, or by imprisonment for not exceeding six months, or by both such fine and imprisonment, in the discretion of the court.

Sec. 6. If any section, sentence, clause or part of this act, is for any reason held to be unconstitutional, such decision shall not affect the remaining portions of this act. The Legislature hereby declares that it would have passed this act, and each section, sentence, clause, or part thereof irrespective of the fact that one or more sections, sentences, clauses, or parts be declared unconstitutional.

IRON GATE POWER DAM TO GO AHEAD

Preliminary work on the Iron Gate power dam on the Klamath River in Siskiyou County, will be started shortly by the California-Oregon Power Company. Camps for construction crews are now being located.

Actual construction will be started on the dam in the Fall. Application has been made to the federal power commission to construct the 160-foot dam. The capacity of the first unit will be 14,000 horsepower. This can be raised by future construction to about 40,000 horsepower. Several hundred men will be employed on the project for about eighteen months. The cost of construction is estimated at \$5,000,000.

ARCHITECTS WILL SHARE IN FEDERAL BUILDING PROJECTS

Calling upon President Hoover to protest the alleged reluctance of the treasury department to turn over preparation of plans and specifications to outside architects is slowing up the federal public buildings program, a delegation representing the Associated General Contractors, the American Institute of Architects and the American Engineering Council was informed that approximately 75 per cent of this work has been placed in private hands according to Paul Wooton, Washington correspondent for Engineering News-Record.

A report by the treasury department to the President reveals that the drawings for most of the large projects have been assigned to private architects. While only 53 of the 201 projects now in the drawing stage have been placed in the hands of private architects, these total \$169,017,023, compared with a total of \$46,171,700 for the 143 projects that the supervising architect has in hand. Of the 46 projects over \$1,000,000 which have been taken up for drawings since March 31, 1930, 32, to cost \$163,393,023, have been assigned to architects outside the department.

As a result of the White House conference it has now been decided that as new sites are accepted all jobs that the supervising architect's staff can not handle within 30 to 60 days will be assigned to private architects.

BOARD IS NAMED ON BUILDING CODE

Under a provision of the uniform building code adopted recently by the City of Stockton, City Manager Walter B. Hogan appointed a board of examiners and appeals, composed of five members, to deal with operation and regulation by the code.

The members are Peter L. Sala, architect; William J. Scott, building contractor; Warren H. Atherton, lawyer; Henry Ohm, civil engineer, and Chas. W. Gulick, instructor in engineering at the College of the Pacific.

William A. Curtis, city building inspector, as an ex-officio member and secretary of the board, will have authority to call meetings.

NEW GARBAGE PLAN HITS SEA DUMPING

Three proposals for the disposal of garbage has been submitted to the San Francisco Board of Supervisors by the Health Committee. The three proposals are:

- 1.—That the incinerator shall be constructed on plans submitted by the City Engineer.
 - 2.—That an incinerator shall be constructed on plans submitted by the bidders.
 - 3.—Disposal of garbage by any plan other than dumping at sea.
- The matter will come before the board for discussion next Monday.

Although there is still a surplus of workers, employment conditions in California have improved during this month and the increase is expected to continue, the Pacific Division of the U. S. Department of Labor reports.

Thomas Hamlin, art stone contractor, has been elected president of the Pasadena Builders' Exchange. H. O. Clarke was elected vice-president and George L. Throop, treasurer. George W. Israel was re-elected secretary-manager.

GYPSUM PRODUCTION SLACKENS IN 1931

Production of the gypsum industry in 1930 fell below the level for the preceding year, according to a statement made public by the United States Bureau of Mines, Department of Commerce, based on reports received from operators in 16 states and collected in co-operation with the Geological Surveys of Iowa, Kansas, Michigan, New York, Oklahoma, South Dakota, Texas, and Virginia.

The quantity of gypsum mined in the United States in 1930 was 3,471,393 short tons, a decrease of 1,544,729 tons, or 31 per cent compared with 1929. This production, however, was greater than that of any year prior to 1922 and was more than 10 per cent larger than that of 1920.

The total value of the calcined and uncalcined gypsum sold by producers was \$27,051,484, a decrease of \$4,241,485, or 14 per cent compared with 1929. The quantity of gypsum sold by producers without calcining in 1930 was 989,591 short tons, a decrease of 76,106 tons, or 7 per cent, compared with 1,029,223 tons, a decrease of \$1,835,254 or \$1.91 per ton, a decrease of \$210,525, or 10 per cent, in value and of 6 cents per ton; the quantity of calcined gypsum sold by producers was 2,131,376 tons, a decrease of 1,170,204 tons, or 35 per cent and was valued at \$24,195,230. This was a decrease of 14 per cent in total value compared with 1929.

New York continues to be the largest producer of gypsum. The production of crude gypsum in that State in 1930 was 912,970 tons, a decrease of 29 per cent from that of 1929. This was 26 per cent of the entire quantity mined in the United States. New York is also the largest seller of gypsum, marketing 275,294 tons without calcining, or 28 per cent of the United States total, and 573,602 tons calcined, or 22 per cent of the total. These figures represent a decrease of 8 per cent in the uncalcined and 33 per cent in the calcined gypsum compared with 1929. Other important States in the production of crude gypsum in 1930 were Michigan, 519,325 tons; Iowa, 481,047 tons; Texas, 359,315 tons; and Ohio, 255,337 tons. These five States reported 73 per cent of the total production of crude gypsum in 1930.

Possibility of the formation of a public utility district to include the lands of the Corcoran Irrigation District and the City of Corcoran, 20 miles south of Hanford, loomed last Wednesday, following a mass meeting of citizens. Establishment of a central power plant or smaller units with natural gas as fuel, is proposed.

Sixth annual convention of the Northwestern Section, International Association of Electrical Inspectors will be held in the Chamber of Commerce headquarters in Salem, Ore., October 5, 6 and 7, it is announced by W. M. Hamilton, secretary of the association.

New construction at California's state institutions, totaling \$2,900,000 for the next biennium, is provided in the budget approved by Dr. J. M. Toner, state director of institutions. The general budget includes \$3,151,000 for general support during the forthcoming fiscal year in addition to the building allowances.

Permits for six new buildings costing \$40,400 were issued during the month of May in Alameda. Permits for alterations and repairs to existing structures, 46 in number, involved an expenditure of \$9,382, bringing the total operations for the month to \$50,382.

STATE REALTY LICENSES DROP

California's "army" of real estate brokers and salesmen has suffered a marked decrease in 1931, according to figures released by the State Division of Real Estate.

Licensed salesmen total 13,473 as compared to 25,237 in the State a year ago, while the number of licensed brokers totals 18,877 this year as against 19,275 in 1930.

The grand total of salesmen and brokers of 31,350 compares unfavorably with 44,512 in 1930; 56,812 in 1929; 62,751 in 1928 and 65,970 in 1927, the peak year.

As a result of the falling off in licenses issued the revenues of the division have fallen off to an extent that the division is facing the necessity of cutting its office force.

The most favorable factors in the immediate outlook for the building industry are the low cost of construction and the rising volume of residential building, says the Union Trust Co., Cleveland. During the first quarter of 1931 the floor space of new homes built exceeded the same period last year by 2 per cent.

"The record for non-residential construction and for the public work is less favorable, the declines continuing in these classes," says the bank in its magazine Trade Winds. "Building material costs are from 10 per cent to 20 per cent below the levels of one year ago.

"Conditions for the construction or purchase of a home have not been more propitious in the past 14 years with land and material prices at near bottom levels. However, the prospective home builder faced with curtailed earning and uncertain employment is delaying his purchase. This delay in investment in general economic conditions should be reflected immediately in an accumulated demand for new homes.

"In the non-residential field, including commercial buildings, factories and public buildings, hospitals, institutions and churches, there has been a marked decline in activity caused by unfavorable business conditions. Financing is difficult to obtain, and many industrial concerns long ago felt the burden of excess plant capacity.

"Public works, embracing highway construction, public utility extensions and other projects by private and public corporations have been curtailed as the result of increasing tax rates or insufficient financing. Many governmental units are faced with large deficits resulting from delinquent taxes. While recent surveys showed a need for an expenditure of some \$4,500,000 in public projects, less than one-fourth are actually going forward."

Current consumption of common brick, according to a report of the Common Brick Manufacturers' Association of America, is running close to the output, the plant supplying the market shipping approximately 16,000,000 bricks a week, an increase of about 60 per cent over last year. Since January 1 the average demand has been about 35 per cent higher than in 1930, while shipments recently have run close to 100 per cent ahead of last year.

A. B. Tarpey, president of the Fresno Irrigation District, will be recommended to Governor Rolph by the directors of the Fresno County Chamber of Commerce, as Fresno district representative on a special citizens' committee to study the state-wide water plan. The Governor has requested representative bodies throughout the state to select desirable appointments.

THE OBSERVER

What He Hears and Sees on His Rounds

In issuing a building permit to a contractor, the City of Vallejo is not concerned in whether the contractor has a state license, the city council was advised by City Attorney Russell F. O'Hara. Compliance with local ordinances, is the only necessity. The opinion was rendered following receipt of an inquiry from Roy V. Morris, secretary of the Vallejo Builders Exchange, asking if it was legal to issue a permit under such circumstances.

James W. Doherty, real estate operator, announces organization of the Realty Investors Corporation of San Francisco, capitalized for \$2,500,000. The company will engage in rebuilding and modernizing structures in the Mission District.

Wage reductions were branded as "unsound and false economy" by Verling Kersey, state director of education in a report to Governor Rolph. "The result of such actions is to make conditions worse instead of better. The maintenance of adequate salary levels guarantees continued spending and will eventually aid in stabilizing economic conditions," Kersey stated.

Kersey also attacked the proposal to reduce the pay of teachers and other public employes, pointing out that the pay of teachers "has just reached a fair level."

Instead of looking down at motion pictures as you do now, you may some day be looking up to them if an idea presented at the Society of Motion Picture Engineers by Ben Schlender, New York theatre architect, is adopted.

Schlender's plan is to reverse the slope of the theatre floor, making it slant upward to the screen instead of down as it now is. The architect says the sight lines as they are fixed in the present type of theatre cause the spectator to sit with much bodily discomfort and frequently with a distorted view of the screen. Schlender said:

"Persons sitting on the orchestra floor must tilt their heads backward to see the screen. In the balcony, the seat angle makes it necessary for the patron to pitch his body forward. Study has shown that it is impossible to correct these faults without entirely disregarding the present theatre form and creating a new one."

A live topic of discussion among the civil engineers of California is the possibility of reaching a saturation point in the profession. The state's registration has risen to more than 5000 professional civil engineers, a ratio of almost one to the thousand of population. This is sufficient reason for the speculation.

"Under ordinary conditions do the direct and indirect requirements of every thousand of population require the time of a professional civil engineer?" asks Engineering News-Record. Continuing the publication says:

"The medical calling had an old-fashioned rule of thumb that one physician per thousand is about all the traffic can bear. That was before the day of the specialist and the clinic, and today the tolerable ratio is no doubt higher. Perhaps engineering is emerging into the clinical stage. When a down-town sewage-disposal plant calls for the advice of a foundation ex-

pert, a structural diagnostician, a hydraulic consultant on circulation, and finally a sanitary expert to prescribe a change in dosage, the analogy is not beyond reason. Perhaps it is not proper to enter on discussion of an important professional question in this vein; but the knowledge that at least one state has a 1:1000 ratio between civil engineers and population should provoke critical reflection."

"Californians sometimes fail to appreciate the importance of the statute that has for its purpose the prohibition of tenement dwellings and insistence upon standards in construction that represent reasonable room, attention to sanitation, and the relation to health that add to longevity," says Will J. French, director of the State Department of Industrial Relations. "The Division of Housing and Sanitation is in continual conference with building authorities in California's cities and counties. For instance, in Vacaville it is proposed that a building ordinance be adopted. Bad housing conditions in the Filipino quarter of Santa Maria necessitated stern action, and steps will be taken to institute abatement proceedings against four houses. The recently-appointed Sanitary and Housing Inspector of Santa Barbara has been in consultation with Division officials, so that the requirements of the Act will be followed. Conditions in Broderick, Yolo County, were found to be bad, and the Housing Officer of the County has been given State help in preparing an ordinance to meet the grave needs. In the West Hollywood area and in northern San Diego County it was necessary to make changes. Fifteen plans were checked in various parts of California during April, involving an estimated expenditure of \$262,500."

Recommendations of the employment stabilization committee of the California State Chamber of Commerce, include:

1. Give wage earners every reasonable assurance of the safety of their jobs.
2. Hold layoffs to a minimum, distributing any excess work to additional employes where feasible.
3. Stagger or rotate employment, or place some jobs on shorter hours, in order to spread work to as many as possible.
4. Study possibilities of spreading work to a greater number of employes consistent with efficient operations, with voluntary time off, or extra vacations, etc.
5. Review past business for indications of fields in which extra effort may be concentrated for profit.
6. Lengthen average employment periods by more accurate planning of production.
7. Accumulate maintenance work for slack periods.
8. Study possibilities of exchanging labor between departments, plants, etc., where feasible.

Simplified Practice Recommendation RI-29 on vitrified paving brick has been reaffirmed by the standing committee of the industry, without change for another year. This recommendation has been instrumental in reducing the number of sizes and varieties from 66 to 8, or 91 per cent.

California labor for California public construction!

This is the labor policy heralded by Col. Walter Garrison, director of public works, as the state's speed-up program of highway and building construction swung into full momentum.

Employment of American citizens on public works who have been residents of California for at least a year, preference to married men in such employment and maintenance of the prevailing wage scales—these were the major points in the state's labor program.

Public construction representing an expenditure of more than \$5,000,000 is in progress throughout the state, with bids being opened this month on additional projects aggregating \$2,000,000.

"The new state labor program will affect thousands of workers, particularly, California residents with families," Col. Garrison declared. "Contractors as a rule are responding in fine spirit to the program."

When contracts are awarded, contractors are sent notices of the state labor policy which read, in part:

"Governor Rolph is much concerned with unemployment and urges you to favor married men, as the state, of business depression falls heaviest on them.

"In this connection we also favor the policy of employing citizens who have been residents of the state for at least a year.

"It also our belief that the wages paid on state contracts should be the prevailing wage in the locality."

Los Angeles with a total of 33,995,700 and 2200 permits issued maintained first place in building permit listings for the month of May, San Francisco, with 530 permits involving an expenditure of \$2,535,617 landed in second place. In June following with 526 permits for improvements valued at \$1,060,890. Portland runs fourth with 361 permits aggregating an expenditure of \$439,955. Other Pacific Coast cities report as follows: San Diego, 280 permits, \$421,610; Spokane, 173 permits, \$127,735; Boise, Idaho, 63 permits, \$23,234; Salem, Ore., 37 permits, \$23,292; Eugene, Ore., 59 permits, \$18,282.

American engineers are getting big salaries from Russia to teach the Russians mass production in order to undersell American manufacturers in their own markets. This was the statement made to the Tacoma Lumbermen's Club by August Anderson, a Chicago attorney, who has just returned from his third visit to Russia since the war. With forced labor, Russians can cut lumber and lay it down on the Atlantic Coast cheaper than the West Coast mills can manufacture it, Anderson said.

A statement issued by the foreign construction division of the U. S. Department of Commerce dealing with post-war housing places the estimate of actual cost of construction of dwellings in the whole world for the decade 1920-1930 at more than \$36,000,000,000. Practically all the European governments have either extended direct aid or instituted measures to promote the building of homes for workers.

The application of the city of Seattle, Wash., for a franchise to extend its city water system beyond the north city limits in competition with the Mountain Lakes Water Co., has been denied by the King County commissioners. The water company, backed by Ulen & Co., of New York, plans a construction program, ultimately costing \$5,000,000, to provide water facilities for the district between Seattle and Everett.

ALONG THE LINE

Ben Mack Jenkins, pump manufacturer of Caruthers, Fresno County, has filed a voluntary petition in bankruptcy in the U. S. District Court at Los Angeles. Jenkins lists liabilities of \$8,237.68 and assets of \$15,631.

Dnyton-Dowd Co., Quincy, Ill., has appointed M. B. MacNeille as Western sales manager, with headquarters at San Francisco. He was formerly with Fairbanks, Morse & Co. as manager of the pump division.

G. A. Dahlmeler, 1013 S Third St., San Jose, will operate in that district under the firm name of Century Elec. Company.

Cork Insulation Company of New York City has opened distribution headquarters for the Pacific Southwest territory on Everett Place in the Central Manufacturing District of Los Angeles. A full line of Corinco cork products will be carried in the new plant and all engineering and contracting operations undertaken by the company in Southern California and Arizona will be served from this branch headquarters. F. G. Hooper is in charge of the branch.

A. M. Girolami, James H. McFarland and Q. Pincicci will operate from 375 Wheeler Ave., San Francisco, under the firm name of Paramount Concrete Company.

Empire Steel Corporation of Cleveland, Ohio, fifth largest producer of steel sheets in the country, went into voluntary receivership last Thursday, with Carl H. Henkel, president, appointed the receiver. Henkel will take over operations of the company pending liquidation or reorganization.

Leo Van Gelder, 689 Santa Ray Ave., Oakland, will operate from 3905 Piedmont Ave., Oakland, under the firm name of New Way Plumbing Company.

Truscon Steel Co., Youngstown, O., announces the appointment of Garrett A. Connors as vice-president, director of purchases, in recognition of his 24 years of service as an executive in the production division. Mr. Connors will maintain headquarters at Youngstown.

In Great Britain, where the housing problem has been most acute, the government has spent vast sums for the erection of dwellings and has granted special subsidies to municipalities to enable them to reduce rents to tenants. In London alone the 1931 program of the city councils provides for the erection of 13,978 houses and 11,700 suburban cottages at an outlay of approximately \$37,000,000.

The London five-year plan, 1931-1935 calls for 34,676 houses at a total estimated cost of \$108,000,000. The cost is repaid in rent over a twenty-year period.

Secretary of Commerce Lamont announces that representatives of the lumber, pulp and paper industries will meet on June 10 with the timber conservation board to study causes of existing economic conditions in the timber industry and take steps to correct them. The board was appointed by President Hoover to study production conditions in the forest industries.

TRADE LITERATURE

Irving F. Smith, for 23 years in the hardware business in the East Bay district, has been named manager of the San Mateo Hardware Company at Third Avenue and B Street, San Mateo.

Charles H. Jettis and Ben A. Dore, prominent eastern architects with offices in New York, Chicago and Detroit, are in Los Angeles for a visit and contemplate transferring their activities to the Pacific Coast. Both have been identified with some of the largest hotel and theater projects in the east and have expressed themselves as satisfied with the outlook on the Pacific coast and particularly in Los Angeles.

Henry J. Hockelberg, 62, retired general contractor of Fresno, died in that city last Thursday. Hockelberg was born in Aviston, Ill., and went to Fresno in 1883 and for the past twenty-five years operated as a general contractor in the San Joaquin Valley section.

Huston D. Mills, office engineer and secretary of the board of directors of the Nevada State Highway Commission, will succeed Wm. A. Young, assistant state highway engineer, who has resigned effective June 15 to assume a position with Dodge Bros. of Fallon, Nevada, road contractors. W. T. Holcomb, chief draftsman will succeed Mills and George R. Egan, at present bridge engineer, will be made chief draftsman.

Guy Wilfrid Hayler, city planning expert of San Francisco, has just completed a study of development in the area between Redwood City and Palo Alto for the David D. Bohannon Organization which firm has control of the properties known as Belle Haven City, now being developed for residential purposes together with large industrial frontage on San Francisco Bay. Mr. Hayler's report is largely in the form of graphic diagrams and shows an awakening in the real estate field in the Bay region.

Wm. T. Loesch, president of the California State Builders' Exchange, has appointed P. M. Sanford of Richmond a member of the Legislative Committee of that organization. W. A. Brown, secretary of the Richmond Builders' Exchange, has been named a member of the Accident Prevention Committee.

Byron Jackson Co., Berkeley, Calif., announces the return of W. R. Layne to its normal force after an absence of a year.

Footage of piling exported from Oregon in 1930 exceeded that for 1929, but the export value decreased, a summary issued by the Portland, Ore., office of the bureau of foreign and domestic commerce shows. Oregon shipped 1,340,630 lineal feet of piling valued at \$158,923 to six foreign countries last year.

National Lumber Manufacturers Association at its recent annual meeting in Chicago elected the following officers: President, A. C. Dixon, Eugene, Ore.; vice-president, W. M. Ritter, Washington, D. C.; E. A. Frost, Shreveport, La., and R. B. White, Kansas City, Mo.; secretary and manager, Wilson Compton, Washington, D. C.

ZONING LAWS TO
BENEFIT BUILDING

Stimulus to building operations in Oakland will result from the adoption by the city council of amendments to the city zoning ordinance, the Oakland Real Estate Board reports. The proposed amendments, suggested by a committee appointed by the realty board, were introduced at last Wednesday's city council session.

Sections of the new zoning ordinance which have been held to impose burdensome restrictions would be abolished by these amendments and a third section modified as to front yard setback lines for multi-family housing.

Restrictions governing the erection of buildings in single-family and multi-family housing as to side yard and rear yard space will be only those imposed by the state housing act, it is explained. This will permit building operations to proceed on the same basis which obtained prior to the adoption of the zoning ordinance.

A set-back line of five feet for inside lots and of three feet on all frontages for corner lots applicable to multi-family structures is to be substituted for the more drastic provisions specified in the present zoning ordinance.

The committee which formulated the amendment recommendations was appointed by Fred T. Wood, president of the real estate board, and is composed of the following: Frank H. Ayers, Harry P. Fisher, Edwin K. Hussey, Walter L. Kelly, Ralph A. Knapp, William A. Davis, Willis C. Lowe, Richard H. McCarthy, James J. McElroy, Carl C. Replogie, Bestor Robinson, Charles H. J. Truman.

Comprised in the report made to the realty board by this committee is the following:

"It is estimated that approximately \$2,000,000 of projected new building construction was stopped by the enactment of the zoning ordinance because of unnecessarily burdensome restrictions and unanticipated provisions of the ordinance. Approximately half of this probably now be revived and carried forward to completion.

"Many of the projects then held up, for which definite financing had been arranged and to which financing concerns were committed, can not now be revived because of recent changes in policy on the part of the financial houses. It is believed, however, that \$1,000,000 worth of new construction will be commenced shortly after the proposed amendments become effective.

Several other amendments to the ordinance have been proposed by the committee and have been taken under consideration by Commissioner Thompson but the three given first and second readings on Wednesday are the only ones urged at this time, the committee has reported. Others are to be offered to the city planning and zoning commission which it is anticipated will be created after July 1 when the city manager form of government become operative.

President R. Arthur Wood of the Chicago Stock Exchange, told delegates to the Illinois Bankers' Association convention that "we are to blame" for the present depression, and that it is time to "consider soberly our mistakes of the past and to avoid a repetition."

Colorado Fuel and Iron Company, largest industrial enterprise west of the Missouri river with the exception of the railroads, on June 1, came out flatly against wage reductions as an expedient during the economic depression.

SAN FRANCISCO BUILDING PERMITS FOR MAY, 1931, CLASSIFIED

	No. of Permits	Est. Cost	No. of Families
1 family dwellings.....	163	\$ 673,116	163
2 family dwellings.....	3	31,100	6
Multi family dwellings (apts.).....	7	342,500	133
TOTAL	173	\$1,046,716	300
Amusement buildings.....	1	500	
Factories.....	1	2,550	
Garages (private, separate).....	4	1,415	
Gas and service stations.....	6	10,080	
Institutions.....	2	310,508	
Office buildings.....	2	36,900	
Public buildings.....	1	1,900,000	
Schools.....	2	115,000	
Sheds.....	1	250	
Stores.....	6	161,850	
TOTAL	26	\$1,638,253	
ALTERATIONS			
On residential—housekeeping.....	153	76,679	
do non-housekeeping.....	5	2,210	
On non-residential.....	92	71,255	
TOTAL	250	\$ 150,144	
Installations.....	51	18,558	
GRAND TOTAL	530	\$2,853,671	

OAKLAND BUILDING PERMITS FOR MAY, 1931, CLASSIFIED

Classification of Bldgs	No. Permits	Cost
1-story dwellings.....	35	\$126,471
1-story 2-family dwelling.....	1	3,506
2-story dwellings.....	16	68,000
1-story stores.....	1	2,550
1-story factory.....	1	3,300
1-story greenhouse.....	1	50
2-story factory.....	1	3,000
1-story tile garage.....	1	450
Tile addition.....	1	3,173
1-story concrete warehouse.....	2	106,615
1-story concrete garage.....	1	1,000
1-story brick service station.....	2	5,500
Billboards.....	2	500
Electric signs.....	33	10,425
1-story garages and sheds.....	37	14,745
Additions.....	47	22,849
Alterations and repairs.....	54	52,300
TOTAL	239	\$424,848

ALBANY, ALAMEDA COUNTY, BUILDING PERMITS FOR MAY, 1931, CLASSIFIED

Classification of Bldgs.	No. Permits	Cost
Private garages, alterations, etc.....	12	\$ 1,195
Dwellings.....	10	30,300
Schools.....	2	130,000
TOTAL	24	\$162,095
Value of permits May, 1931.....		37,890
Total value of permits to date for 1931.....		\$325,588
Total value of permits to date for 1930.....		164,314

BERKELEY BUILDING PERMITS FOR MAY, 1931, CLASSIFIED

BERKELEY, ALAMEDA COUNTY, CALIFORNIA

Classification	No. of Permits		Estimated Cost	
	May 1930	May 1931	May 1930	May 1931
1-story dwellings.....	11	15	\$ 46,450	\$ 63,000
2-story dwellings.....	16	4	111,531	27,500
Apartments.....	1	1	40,000	50,000
Dormitory.....	1	1	18,000	
Fraternity.....	1	1		22,500
Business.....	1		100	
Business, Class C.....	1			3,900
Factory.....	1			3,000
Service station.....	1		2,000	
Public garage.....	1		4,000	
Private garages.....	7	15	2,985	9,650
Private garages, Class C.....	3	4	875	1,700
Miscellaneous.....	1	3	300	1,400
Additions.....	16	17	15,450	9,725
Additions, Class A.....	1	35	13,132	
Alterations and repairs.....	51	3		12,679
Alterations and repairs, Class C.....	1		20,000	
Demolitions.....	3			350
TOTAL	111	101	\$288,873	\$209,451

OIL BURNER MEN PLAN ORGANIZATION

Plans for the formation of more than 2000 oil burner dealers into one of the largest trade associations in the country are announced by Lionel L. Jacobs, vice president of the American Oil Burner Association and chairman of the board of governors of the dealer division. The new organization will be a division of the American Oil Burner Association and will operate under its officers and directors but it will be managed by its own executive board.

Oliver P. Harris who has had wide experience in sales promotion work and dealer activities has been appointed managing secretary. He will carry out the organization plan as adopted at the annual convention of the American Oil Burner Association in Philadelphia last month. The initial membership roll will be composed of the 2000 dealers handling products of manufacturer members of the A. O. B. A. The potential membership list is 7500 and it is expected that other dealers will become members in the near future.

One of the first activities of the new association will be the organization of local oil burner associations and the direction of co-operative newspaper advertising campaigns through these local associations in the different localities. Another major function will be the fight on obsolete ordinances carried on in conjunction with the manufacturer members. Dealers in each city where out-of-date or unjust restrictions exist will be organized for a fight in that locality.

Other activities of the division include advice and assistance to dealers in meeting unfair advertising and unfair competition; market research work and the distribution of engineering data pertaining to oil burner installations.

Harris, managing secretary, was formerly director of sales for the Petroleum Heat & Power Company, of New York.

TIMBER MERGER DEAL IS RATIFIED

Merger of the Pacific county holdings of the Weyerhaeuser Timber Company with other Willapa Harbor lumber and timber companies in Washington State was ratified by the stockholders of the Weyerhaeuser Timber Company at the annual meeting held in the offices of the company at Tacoma last Thursday.

The election of trustees and officers also took place, the changes in the past year's list being only those made necessary by the death of George S. Long, vice-president, and E. W. de Long, assistant treasurer.

The merger, which was ratified, is that of the timber holdings tributary to Willapa Harbor, with the holdings of the Raymond Lumber Company, the Lewis Mills and Timber Company and the Willapa Lumber Company.

The board of trustees elected consists of F. S. Bell, William Carson, A. W. Clapp, E. P. Clapp, H. S. Irvine, W. L. McCormick, C. R. Muser, F. W. Reimers, H. J. Richardson, F. E. Weyerhaeuser and J. P. Weyerhaeuser.

The elective officers are F. S. Bell, president; A. W. Clapp, vice president; F. E. Weyerhaeuser, vice president; W. L. McCormick, vice president; H. S. Irvine, treasurer; A. D. Orr, assistant treasurer; F. E. Titcomb, general manager; W. L. McCormick, secretary; H. J. Richardson, assistant secretary; Geo. S. Long Jr., assistant secretary; A. W. Clapp, general counsel. The appointive officers are C. H. Ingram, assistant general manager; Minton Davis, manager.

BUILDING INDUSTRY AND REALTORS SHOULD COOPERATE AND REORGANIZE HOME BUILDING PRODUCTION METHODS

The home building and allied industries are organized and operated as though they were producing consumption goods whereas they are actually producing capital goods and all those in these industries will prosper more when this principle is realized, said Arthur C. Holden, A. I. A., prominent New York architect, speaking before the Home Builders and Realtors Division of the National Association of Real Estate Boards at its 24th annual convention in Baltimore last week.

The error of architects, builders and real estate men in operating their various businesses with the idea that when a man buys a home he is actually buying a bushel of wheat, is curtailing advancement in all three businesses, and is responsible for the hard times felt in many quarters in these fields, according to the speaker.

The surplus that comes from depreciation and obsolescence is more dangerous than the surplus from new home construction, said the speaker.

A man pays for the use of a home not for the home itself, and the ability of the public to pay rent should be computed every year and used as a basis in producing new structures and in regulating their cost, said the speaker.

Asked to address his audience from the viewpoint of an architect, Mr. Holden was expected to describe new home building business. He declared, however, that it was useless to "doll up" American homes any further until architects, builders and realtors got together and reorganized production methods.

Architects, builders and realtors do work very hard trying to produce well built and designed homes in well developed areas as cheaply as possible with all their work based on the idea that the public wants these homes; and reach their first snags when the public fails to buy them.

He declared that the business of designing and building homes and developing land on which to put them is no different when it comes to selling these homes than the business of growing and selling wheat, and called attention to the fact that real estate, for which there is no use or which is not immediately usable, is of no more real value than wheat stored in a grain elevator which cannot be sold. The fact that it costs so much to produce the unsold wheat has very little to do with the price that the wheat growers receive, he said.

Mr. Holden asserted that the country is producing few new homes that the bulk of the population can afford, that the majority of American families get their homes, not from the building industry but from those who are holding land for expected rise in prices, as for instance in blighted areas in which the land price is high. The buildings in these areas are rented for such low sums their over crowding is permitted. The consequences are harmful economically, as well as socially, and no industry should allow its worn out machinery to be bought up by speculators for sale to its clientele at depreciated prices, said the speaker.

He scored the practice of depending upon borrowed outdoor light from neighboring property, and said that the failure to make provision for garden space in apartment house developments affected earnings over a long period.

He criticized the practice of permitting land owners to obligate cities to

open new streets without any study as to their economic necessity. He said that this practice is a drain upon tax payers and cited two cities, Dallas, Texas, and Schenectady, N. Y., where "ill considered developments" are impossible because mere petitions cannot secure the desired improvements.

Architects have begun to apply the kind of health that people live in, how they are produced and financed, and are trying to cooperate with builders and realtors in giving the public a better product for less money. Mr. Holden who was consulting architect to the New York State Board of Housing in 1926 and who was special adviser to the New York Committee to Examine and Revise the Tenement Law and who was a member of the Hoover conference on Home Building and Home Ownership as a member of the Committee on Types of Dwellings and the Committee on Construction, said:

"What we, in our industry, produce is not consumption goods as such. What we actually produce is capital goods. Many of our troubles and difficulties come from our failure to distinguish between consumption goods and capital goods.

"When a man buys a home he doesn't consume it, he uses it. What he pays for is not for the home itself, in the same sense that he pays for a bushel of wheat, but he pays for the use of the home. We, in the building industry, could very well take a lesson from the United Shoe Machinery Corporation. Here is an industry which produces capital goods which are in themselves, not strictly speaking, consumable, although, of course, it is recognized that machinery just like the home, does ultimately wear out. The policy of United Shoe Machinery, has been to rent its product rather than to sell it. This policy has been a remarkable safeguard to the shoe machinery industry, because this rental system created a direct index of the actual use made each year by the customer which was produced. Had the United Shoe Machinery Corporation conducted its business on an out and out sales basis, it might have fallen into the same error so frequently encountered by us in our industry of creating homes.

"It might have for a while received profits from the purchase prices which were so attractive that they tempted the industry to continue to produce capital goods at a high price irrespective of whether or not the use of these goods could be balanced by economic considerations.

"Now let us try to apply this parallel to our own industry. Where a man buys or rents a home his motive is to secure the use of that home and he actually engages to pay for its use in rent. This rent may be paid directly to the owner or it may be paid to himself in the form of loss of interest on his capital. The danger in our industry in the sale of homes is that the profit derived from this sale does not immediately reflect the economic rent which can be paid for the use of the home.

"When an industry, however, which is based on the production of capital goods, is organized on the same basis as one which produces consumption goods the industry is liable to the error of premature expansion.

"If we were to translate every piece of property which is now used and set upon it a rental value based on the use that is made of it and then add up all these rental items we would get a figure for the total rent fund which would correspond from the eco-

nomie point of view with the total price received for the wheat crop of the nation. If we want to drop a figure which we carry over the capital value of all of the real estate in America we should capitalize at the prevailing rate of interest the total rent roll of the nation. Now, if we wish to have a balanced industry the price at which we carry over the total rent should not exceed the total figure of the capitalized rent fund.

"It is unfortunate that in our industry there is no exact measuring unit which is parallel to the bushel of wheat. Some real estate is usable, other real estate is not immediately usable. Real estate returns vary according to the degree which it is desirable or usable, yet all real estate may be said to be potentially usable. So is wheat stored in the grain elevator, potentially usable, or coffee in a warehouse in Brazil, or sugar cane in the warehouses of Cuba and when this potential reserve becomes so great that it can be dumped on the market and break the price of the product of wheat, just as coffee and that potential reserve becomes a danger in itself.

"The impression has too long prevailed that we could depend upon selling our real estate for its future potential use. It is ultimately disastrous in the case of wheat, in the case of coffee or in the case of sugar. It is many times more disastrous in the case of real estate.

"As a group of men who are dependent for our livelihood upon the use which the public makes of real estate and especially upon the use which the public makes of homes we ought to know how much the public is able to pay each year in rent. We have been inclined to avoid this issue and to assume that we could make enough profit just by producing each year and to keep up production at a rate which will enable us to carry on indefinitely. We are often deluded by the fact that land seems to be continually increasing in value and to depend upon this increase. Real reality is only an increase in price, to make up our deficit. With real estate, however, there are definite limits to what the public can pay for the use of real estate just as there are economic limits to what the public can pay for wheat. The rent fund or the total amount that can be paid every year for rent bears an economic relation to the economic status of the community, of the nation and, in the final analysis, of the whole world. It varies with the barometer of economic conditions.

"We have come to a point today where it is well recognized that one of the most serious problems which confronts the industry concerned with the building of homes is the formulation of a definite policy with respect to blighted areas. The day has gone by when these blighted areas are the concern only of the philanthropic minded and the social reformer. Today we can recognize the economic as well as the social danger of blighted areas.

"We do not know how many families live in depreciated properties of this class. We do know that numerically the largest group of city dwellers live in this class for which they pay from \$30.00 to \$50.00 per month either in rent or in charges for which they themselves are responsible as owners. For the rural population the rent is still lower. We know from our own costs just as well as we are producing few new homes which the bulk of the population can afford. Our market, so to speak, is principally confined to the higher income group which is numerically very much smaller.

"Here we have the greatest friction between rent payers and property owners. This friction affects the whole building industry. Its social and economic consequences are harmful

to the community. It is not good policy to expect those who can afford small amounts in rents to pay these small amounts for make-shift homes, especially when the greater part of the payment is absorbed by the burden of carrying high priced land and the living facilities furnished are acknowledged to be of the depreciated type.

We, who are in the home building industry ought to be the beneficiaries of this great public who are large in numbers even though the individual rent paid is small. Again, we should think of the lesson taught us by the United Shoe Machinery Corporation. Picture again to yourself the development of this company had its policy been to allow its worn out machinery to be bought up by speculators for sale to its clientele at depreciated prices. Picture the economic waste of carrying a worn out product on the market. Picture the economic futility of depreciated equipment undertaking the work of the nation.

"I want to emphasize over and over again that the surplus which we need to fear is this surplus which comes from depreciation and obsolescence rather than the surplus from well designed and newly constructed homes. We know something of the despair of the farmer when he tries to compete against constantly produced surplus thrown on the market at a depreciated price. It makes it impossible for him to earn a fair return for what he produces. We are in a worse situation in the building industry, because the building industry is producing capital goods not consumption goods. We should attempt to re-orient our industry so as to assure the payment to it of the actual return due to the industry through the annual use of our product.

"Our cities and towns are constantly being besieged to open up new streets and to put in new facilities. The economic price of these facilities is not considered. It only takes a petition from the requisite number of land owners to obligate the municipality to undertake new street openings. Houses are built on this new land which can never of themselves earn enough rent to pay for the street facilities which they require. The burden of both rapid multiplication and town expansion is a drain on the municipality of the older districts and yet we close our eyes to the fact that orderly planning is necessary. In America we can only think of a little regulation here and a little regulation there.

One-twelfth the total area of California, or 8,372,000 acres, has been burned over in the past ten years (1921-1930) by forest fires and grass fires, causing damage estimated at \$14,424,000 and costing \$10,736,000 for fire prevention and suppression according to official figures for Federal, State and other agencies issued by the U. S. Forest Service in San Francisco. This ten-year record, according to Regional Forester S. B. Shaw, shows a gradual increase in the percentage of man-caused fires as compared with those started by lightning. According to ten-year averages, the three causes of fires that are increasing are careless smokers, redneck and electric burners and incendiaries. In 1930, when the losses and acreage burned were far below normal, fires caused by man amounted to 3769 out of a total of 4219, or 89 per cent as compared with a ten-year average of 81 per cent.

Austin, Texas, in voting for the Uniform Building Code of the Pacific Coast Building Officials' Conference, became the 83rd city to adopt the measure and the fourth city in the state of Texas to take such a step.

TRAFFIC CONGESTION PROBLEM SOLVED WITH HUGE TERMINALS

Construction of huge terminals fed by water, rail and truck transportation to serve industries now scattered throughout city areas, is the most enlightened solution to the traffic congestion now rapidly creating all our big cities, Colonel William A. Starrett, president of The Starrett Corporation, told members of the National Association of Real Estate Boards meeting in Baltimore yesterday. Leveling criticism at existing structures within our cities will get nowhere, Col. Starrett said, because traffic is a problem in itself which must be solved as such.

Citing authoritative figures to show that financial losses to a community due to traffic congestion assumed huge proportions and in New York City reached \$1,000,000 per day for trucking losses alone, Col. Starrett placed responsibility for much of this congestion at the door of manufacturing and industrial enterprise in ill-suited localities which he said added to the burden because over-the-sidewalk deliveries to trucks. One example which he cited of a midtown industrial establishment showed rental costs of 75 cents per square foot with unnecessary trucking and handling charges amounting to an additional 30 to 40 cents per square foot—charges which might be avoided had the establishment been served by rail. In this connection he said:

"The truth is that sidewalk truck delivery is a makeshift growing out of numerous causes, one of which is our original failure to realize the tremendous avalanche of traffic congestion that motorization will entail which is destined to correction eventually, either by drastic legislation or by the voluntary provision by the owners in these congested areas of suitable trucking space within the property building line."

The solution offered by Col. Starrett already being attempted into fact by the Starrett interests, The Starrett-Lehigh Terminal is now being constructed at 26th-27th Streets, 11th-13th Avenues, New York and the Colonel believes it to be the forerunner of similar construction to relieve congestion not only in New York but in other large cities where the grouping of industrial enterprises is both a sound business proposition and an advantage to the community. His comments upon it were as follows:

"It seems to us that no other solution is feasible, being the necessity that many industries have for proximity to the large, congested areas which they must in part serve. Moreover, it is an answer to the problem of movement of employees, who cannot always be taken to remote factory locations. City life in many aspects is very agreeable to industrial employees and while certain great industries properly remove themselves to remote locations there is still strong demand that the large cities shall contain in convenient locations many industries that, in large measure, make them.

"When water and rail and automotive transportation can be joined up in a great terminal where, under the same roof, executives, sales and clerical forces, display rooms, manufacturing storage, assembly and distribution can all be carried on in a single terminal unit, we have obtained a measure of relief from unnecessary transportation and, to a certain extent, have defeated the major affliction of modern metropolitan life—traffic congestion."

The lengths to which design and facilities go to make the Starrett-Lehigh Terminal an outstanding structure to reduce traffic congestion and reduce costs of industrial operation was clearly brought out in the description of the building given by Colonel Starrett. It is 19 stories high with 18 and 9 story wings, having a cubic foot capacity of over 26,000,000 and a floor area of 1,500,000 square feet which will afford a straight line production of more than 600 feet on certain floors. Six tracks of the Lehigh Valley Railroad give a capacity for 52 mobile cars at one time and permit direct access to motor trucks within the terminal. Being fed by water, rail and truck transportation and having an unusual location, it gives outstanding facilities for distribution to all of New York City and the state as well as New Jersey and Long Island.

Every floor in this structure is equivalent to the ground floor. Motor trucks drive into the elevators, are hoisted to the designated floors to unload in depressed loading pits and then make exit on another street. Freight arriving by rail is handled by electric trucks on special loading platforms and likewise carried to designated floors by elevators. Three elevators handle truck shipments and are so large as to accommodate any size of loaded truck.

Another unique feature of this building is its lighting. Cantilever construction allows supporting columns to be set back 8 and 9 feet from the exterior walls so that windows are continuous frames without piers. This assures maximum daylight for all activities carried on within the terminal and they will cover a wide range—manufacturing to administration, with such special services as a barber shop, cafeteria and a first aid hospital.

According to Colonel Starrett, the terminal involves an investment of \$10,000,000 and will provide facilities at such rates, compared with other buildings, as to answer the demand for more economy in production.

Lumber Shippers To Correct Trade Abuses

Puget Sound Associated Mills, newly-formed cooperative selling and merchandising company organized to handle lumber shipments to the Atlantic and Gulf Coast will start June 15, says The Business Week.

Its membership is made up of 24 sawmills, regular shippers in the inter-coastal trade. It will handle 30 million feet of lumber a month.

This organization hopes to assist in stamping out the doubtful practice of some shippers of speculating in space and forwarding unsold consignments of lumber which frequently have been auctioned at Eastern centers at such low prices as to upset the entire market structure. It plans to sell either f.a.s. or c.i.f., working closely with the steamship lines as to space and rates, and forwarding only such consignments as have been sold in advance.

Formation of this agency follows closely the recent expansion of the export selling agencies in the Pacific Northwest, controlling 95% of lumber moving to foreign markets from this section. Already the effect has been a firming in export prices.

Building News Section

APARTMENTS

Sub-Contracts Awarded.

APARTMENTS Cost, \$70,000
BERKELEY, Alameda Co., Cal. No. 1717 Oxford Street.

Three-story and basement frame and stucco apartments (30 2- 3- and 4-room apts.).

Owner—M. Baker, Artico Bldg., Berkeley.

Architect—Clay N. Burrell, American Bank Bldg., Oakland.

Contractor—Wm. Van Aalst, 2039 34th St., Oakland.

Part tile and composition roofing, steam heating system.

Concrete—A. J. Marin, 1040 Murray St., Berkeley.

Millwork, Sash and Doors and Lumber—Sunset Lumber Co., 400 High St., Oakland.

Tile and Brick Work—Geo. Addison, 2939 Minna Ave., Oakland.

Plumbing—J. A. Fazio, 402 Castro St., Oakland.

Electric—Fritz Elec. Co., 328 Webster St., Oakland.

Sheet Metal—Piedmont Sheet Metal Works, 4279 Piedmont Ave., Oakland.

Heating—Scott Co., 113 Tenth St., Oakland.

Sub-Bids Wanted.

APARTMENTS Cost, \$17,000
SAN FRANCISCO. S 16th St. E Dolores St.

Three-story and basement frame and stucco apartments (nine two-room apts.).

Owner—M. Hoffman, 2235 16th St.

Architect—Clausen and Amendes, Hearst Bldg.,

Contractor—O. K. Holt, 3957 Army St.

Plans Completed.

APARTMENTS Cost, \$175,000
LOS ANGELES, Cal. Fernwood Ave. and St. Andrews Place.

Seven-story and basement class A apartment (75 apts.; garages).

Owner—Mrs. H. W. Charlton.

Architect—H. W. Charlton, Herbert L. Booth, et al, 219 W Sixth St., Los Angeles.

Grading Contract Awarded.

APARTMENTS Cost, \$150,000
SAN FRANCISCO. SE Ellis and Franklin Streets.

Seven-story reinforced concrete, steel and brick apartments (tar and gravel roof, electric stores and refrigerators, 53 2- and 3-rm apts.).

Owner—Bargene Realty Co., 323 Monadnock Bldg., San Francisco.

Architect—Charles E. J. Rogers, Phenlan Bldg., San Francisco.

Grading—Sibley Grading & Teaming Co., 165 Landers St., San Francisco.

Owner will award other sub-contracts shortly.

To Take Bids Next Week.

APARTMENTS Cost, \$250,000
OAKLAND, Alameda Co., Cal. East 12th Street near Third Avenue.

Nine-story class A reinforced concrete apartments and stores (58 2- and 3-room apts.; 1 5-room apt.; vacuum steam heating).

Owner—A. M. Newton, 1130 1st Ave., Oakland.

Plans by Thomas Keenan, 1440 Broadway, Oakland.

Preparing Plans.

APARTMENTS Cost, \$100,000
LOS ANGELES Co. First and Rampart Streets.

Four-story and basement Class A apartments.

Owner—Withheld.

Architect—H. W. Charlton, Herbert L. Booth and Associates, 219 W-6th St., Los Angeles.

Sub-Contracts Awarded.

APARTMENTS Cost, \$20,000
SAN FRANCISCO. SW Revere and Keith Streets.

Three-story and basement frame and stucco apartments (two 3-room and two 4-room apts. and 1 store).

Owner—A. J. Faggioni, 160 So. Park.

Architect—Power & Ahnden, 605 Market Street.

Owner will act as contractor.

Plumbing and Heating—Adriano Ramazzotti, 473 Vallejo St.

Lumber—Beronio Lumber Co., Powell and Beach Sts.

Structural Steel—F. Kern & Sons, 517 Sixth Street.

Electrical Work—Wm. Weindorf 9 Pomona Avenue.

As previously reported, grading contract awarded to Sibley Grading and Teaming Co., 165 Landers St.

Preparing Plans.

APARTMENTS Cost, \$130,000
LOS ANGELES, Cal. First St. near Rampart St.

Five-story and basement class A reinforced concrete apartments.

Owner—Withheld.

Architect—H. W. Charlton, Herbert L. Booth and Assoc., 219 W-Sixth St., Los Angeles.

Sub Bids Being Taken.

APARTMENTS Cost, \$30,000
SAN FRANCISCO. NW Beach and Broderick Streets.

Three-story and basement frame and stucco apts. (12 apts.).

Owner & Builder—C.F. Christian, 3247 Broderick Street.

Architect—R. R. Irvine, Call Bldg.

Plans Being Completed.

STORE Cost, \$—
OAKLAND, Alameda Co., Cal. Broadway near 19th Street.

One-story store (40x100-ft.)

Owner—Albert E. Kern and Samuel Hamburger.

SKILSAW Portable Electric Hand Saws (4 models).

SKILSAW Portable Electric Sander SKILSAW Radial Arm Attachments.

SYNTRON Portable Electric Hammers (4 models, motorless).

MALL Flexible Shaft Machines (50 models).

Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric Tools.

1248 Mission St.

Underhill

San Francisco

7662

SALES . SERVICE . RENTALS

Architect—Reed and Corlett, Oakland Bank Bldg., Oakland.

Plans will be ready for bids about June 15.

Sub-Contracts Awarded.

APARTMENTS Cost, \$20,000
SAN FRANCISCO. W Ashbury St. S Frederick Street.

One-story and basement frame and stucco apartments (8 apts.).

Owner—M. Valsiere, 3567 11th Street.

Architect—R. R. Irvine, Call Bldg.

Contractor—Young & Horstmeier, 461 Market Street.

Plumbing and Heating—W. E. Trousdale, 422 Turk St.

Millwork—Hart-Wood Lumber Co., 1 Drumm Street.

Ironwork—F. Kern & Sons, 517 6th St. Concrete by general contractor.

As previously reported, lumber contract awarded to J. H. McCallum, 748 Bryant St.

Sub-Bids Being Taken By Owner.

APARTMENTS Cost, \$150,000
SAN FRANCISCO. SE Ellis and Franklin Streets.

Seven-story reinforced concrete, steel and brick apartments (tar and gravel roof, electric stores and refrigerators; 53 2- and 3-room apts.).

Owner—Bargene Realty Co., 323 Monadnock Bldg.

Architect—Charles E. J. Rogers, Phenlan Bldg.

As previously reported, grading contract awarded to Sibley Grading and Teaming Co. Sub-contracts will be awarded about June 9.

Preparing Plans.

APARTMENTS Cost, \$225,000
LOS ANGELES, Cal. Coronado St. Eight-story class A apartments.

Owner—Withheld.

Architect—H. W. Charlton, Herbert L. Booth and Assoc., 219 W-Sixth St., Los Angeles.

BONDS

MILLBRAE, San Mateo Co., Cal.—Election will be held June 24, in the Millbrae School District to vote a direct tax of \$9,000 to finance erection of a 2-classroom and kindergarten addition to the present school.

MANTECA, San Joaquin Co., Cal.—Veritas School District votes bonds of \$4,500 to finance erection of a 1-classroom addition to the present school.

LODI, San Joaquin Co., Cal.—Alpine School District votes bonds of \$15,000 to finance erection of a new school. In addition to the \$15,000 funds voted the district has \$5,000 on hand to apply towards the new structure. Trustees of the district are: L. K. Marshall, Ed. Pressler and John Weiderich.

CHURCHES

Taking Bids.

CHURCH Cost, \$—
LOS ANGELES, Cal. Class A steel and concrete church (65 x142 feet).

Owner—Dr. Isaac A. McCarthy, 1264 West Adams Blvd., Los Angeles.

Plans by Thomas P. Barber and Paul R. Kingsbury, 208 S. Catalina St., Los Angeles.

Contractor—Thomas P. Barber.

Being Done By Day's Work By Owner
SOCIAL HALL Cost, \$10,000
CARMEL, Monterey Co., Cal.
 One-story frame and stucco social hall
 Owner—Monterey Catholic Parish,
 Monterey.
 Architect—Swartz & Ryland, Spazier
 Bldg., Monterey.

Bids To Be Taken Shortly.
SUNDAY SCHOOL Cost, \$135,000
HONOLULU, T. H.
 Two-story concrete Memorial Sunday
 School (30 rooms).
 Owner—St. Andrews Parish.
 Architect—C. W. Dickey, Honolulu.
 Stucco exterior finish, interior par-
 titions to be of concrete blocks, slate
 roofing, concrete floors, standard
 plumbing goods, Oregon pine and oak
 interior finish.

Date of Opening Bids Postponed Un-
 til June 8, 5 P. M.
CHURCH Cost, \$20,000
SACRAMENTO, Sacramento Co., Cal.
 SW 38th St. and 4th Ave. (72x125
 feet).

One-story reinforced concrete and
 stucco church (seat 250; tile roof).
 Architect—Wm. E. Coffman, Forum
 Bldg., Sacramento.
 Following contractors will submit
 bids:

Gene Kenyon, Sacramento.
 M. R. Peterson, 1644 37th St., Sacra-
 mento.
 Guth & Fox, 1528 27th St., Sacra-
 mento.
 W. E. Truesdale, 2116 H St., Sacra-
 mento.
 Anton Johnson, 2649 Marshall St.,
 Sacramento.
 Chas. Unger, 4532 T St., Sacramento
 E. A. Corum, 2665 Donner St., Sacra-
 mento.
 George Hudnutt, 1915 S St., Sacra-
 mento.

Taking Sub-Bids.
CHURCH Cost, \$40,000
SAN FRANCISCO, Bush Street near
 Divisadero Street.
 One-story frame church
 Owner—West Side Christian Church.
 Architect—Bertz, Winter & Maury,
 210 Post St., San Francisco.
 Contractor—Jacks & Irvine, 74 New
 Montgomery St., San Francisco.

FACTORIES AND WARE- HOUSES

WOODLAND, Yolo Co., Cal.—Pack-
 ing shed and equipment of G. H.
 Hecke on ranch three miles south of
 Woodland destroyed by fire with a
 loss of \$20,000. Will be rebuilt at once.

Contract Awarded.
AUTO SHOP Cost, \$3000
SANTA CRUZ, Santa Cruz Co., Calif.
 River Street extension.
 One-story reinforced concrete auto re-
 pair shop.
 Owner—E. C. Kramer, 54 Pacific Ave.,
 Santa Cruz.
 Plans by Builders.
 Contractor—Kenyon Bros., Los Gatos
 Highway, Santa Cruz.

Plans Being Figured.
BUILDING Cost, \$7000
SAN FRANCISCO, E Tara N Geneva
 One-story concrete factory.
 Owner—Bode Gravel Co., 235 Alabama
 Street.
 Engineer—H. P. Davis, % San Mateo
 Feed & Fuel Co., 840 San Mateo
 Drive, San Mateo.

To Be Done By Day's Work.
ALTERATIONS Cost, \$16,800
SAN FRANCISCO, S Fulton Street E
 Webster.
 Alterations & additions to warehouse.
 Owner—Cereal Products Refining Co.,
 Fulton and Webster Sts.
 Engineer—H. H. Soule, % owner.
 Work involves removing present

frame boiler room and warehouse and
 replacing with reinforced concrete
 structure.

Roofing Contract Awarded.
PACKING PLANT Cost, \$20,000
LINDEN, San Joaquin Co., Cal.
 One-story and basement packing plant
 (wooden frame, concrete base-
 ment; capacity 1200 tons).
 Owner—San Joaquin Valley Walnut
 Growers' Assn., Linden, Calif.
 Plans by John Cavanaugh, 219 N-Sut-
 ter St., Stockton.
 Contractor—J. J. Cavanaugh, 219 N-
 Sutter St., Stockton.
Roofing—Summerbell Truss Co., 354
 Hobart St., Oakland.

Preparing Plans.
WAREHOUSE Cost, \$200,000
HONOLULU, T. H.
 Reinforced concrete storage ware-
 house.
 Owner—Honolulu Const. and Draying
 Co., Honolulu, T. H.
 Architect—C. W. Dickey, 405 S. M.
 Damon Bldg., Honolulu.

OAKLAND, Cal.—George W. Woolf,
 795 Alcatraz Ave., Oakland, at \$2995
 submitted low bid to City Port Com-
 mission for electric wiring for Ware-
 house AA, located on W 14th St. Pier.
 The complete list of bidders follows:
 Geo. W. Woolf.....\$2,995
 Pacific Electric Motor Co.....2,283
 Kenyon Electric Co.....2,250
 G. W. Coupe.....2,577
 T. L. Rosenberg Bros.....2,635
 Matson-Seabrooke Co.....2,695
 C. W. Gates.....2,729
 G. Stanley Pierce.....2,850
 Scott-Eutiner Electric Co.....2,884
 E. W. Hiestler.....2,944
 Kerr & Clifford.....3,610
 City Improvement Co.....3,700
 Bids held under advisement.

Bids Opened.
HOG BARN, ETC. Cost, \$—
STOCKTON, San Joaquin Co., Calif.
 Agricultural Park, County Fair
 Grounds.

Livestock building and hog barn.
 Owner—County of San Joaquin, Eu-
 gen D. Graham, county clerk,
 Stockton.
 Architect—Peter Sala, 2130 No. Com-
 merce St., Stockton.

Following is a complete list of bids:
 J. R. Leighton, 812 Bedford Road,
 Stockton, \$3779 (1) add \$2061 (2) add
 \$2061 (3) add \$1286 (4) add \$1200 (5)
 \$960 (6) \$60.
 Carl Nelson, Stockton, \$9847 (1) \$2,-
 650 (2) \$2650 (3) \$774 (4) \$847 (5) \$300
 (6) \$50.

L. Uehls, Ripon, \$10,125 (1) \$2750 (2)
 \$2750 (3) \$1375 (4) \$1225 (5) \$1100 (6)
 \$52.
 H. E. Vickroy, Stockton, \$12,000 (1)
 \$3377 (2) \$2377 (3) \$982 (4) \$1085 (5)
 \$1670 (6) \$85.
 William Euck, Stockton, \$10,392 (1)
 \$2850 (2) \$2850 (3) \$1351 (4) \$1258 (5)
 \$1115 (6) \$69.

Bids held under advisement. Alternates
 are for certain additions to the
 buildings.

OAKLAND, Cal.—Until June 8, 4 30
 p. m. bids will be received by G. E.
 Hegardt, secretary, City Port Com-
 mission, 424 Oakland Bank Bldg., for
 electric wiring for light and power for
 the Inland Waterways Terminal.
 Specifications obtainable from secre-
 tary.

Taking Segregated Figures.
ADDITION Cost, \$—
OAKLAND, Alameda Co., Cal. 4701
 Grove Street.
 Brick and concrete addition to clean-
 ing plant (36x40x12-ft.).
 Owner—John F. Snow Cleaning and
 Dyeing Works, 4701 Grove Street,
 Oakland.
 Architect—R. C. Schuppert, 4637 Park
 Blvd., Oakland.

Sub-Contracts Awarded.
WAREHOUSE Cost, \$—
SAN FRANCISCO, 18th and York Sts.
 Three-story frame and reinforced con-
 crete warehouse and packing
 plant.
 Owner—Challenge Cream & Butter Co.
 Architect—Dodgson, Riedy, Pacific Bldg.
 Contractor—Monson Bros., 475 6th St.
Reinforcing Steel—Concrete Engineer-
 ing Co., 1280 Indiana St.
Roofing—Alta Roofing Co., 976 Indiana
 Street.
Concrete—Ready Mix Concrete Co. 575
 Berry St.
Miscellaneous Iron—Patterson & Koe-
 ter, 280 13th St.
Rolling Doors—Rolph Mills & Co., 525
 Market St.
Electrical Work—Kuchel and Sievers,
 468 5th St.
Steel Sash—Detroit Steel Products Co.
 Hunter-Dunn Bldg.

Taking Bids on General Contract.
LAUNDRY PLANT Cost, \$25,000 with equipment
OAKLAND, Alameda Co., Calif. 739
 29th Street.

One-story and mezzanine floor steel
 frame and brick laundry (175x280).
 Owner—Oakland Laundry Co., (C. B.
 Calow), 739 29th St., Oakland.
 Architect—Miller & Warnecke, Finan-
 cial Center Bldg., Oakland.
 Mezzanine floor will provide class-
 rooms, offices, lockers and showers.
 As previously reported Moore Dry-
 dock, Oakland, low bidder on steel.

Foundation Contract Awarded.
SACKING PLANT Cost, \$15,000
SHELL POINT, Contra Costa Co., Cal.
 One-story steel frame sacking plant.
 Owner—Shell Oil Co., Shell Bldg., San
 Francisco.

Plans by Eng. Dept. of Owner.
Foundation—Baret & Hilp, 918 Har-
 rison St., San Francisco.
 A. J. Cole, Shell Point, is in charge
 of construction.

FLATS

Plans Being Prepared.
FLATS & BUNGALOW Cost, \$20,000
SAN FRANCISCO, Location withheld
 Two-story and basement frame and
 stucco flats (2 6-room flats and
 one-story frame and stucco bungalo-
 w (7 rooms).
 Owner—Withheld.
 Architect—Richard R. Irvine, Call
 Bldg., San Francisco.

GARAGES AND SERVICE STATIONS

Prospective Bidders.
SERVICE STATION Cost, \$7500
SAN FRANCISCO, Third and Harrison
 Streets.
 Frame and stucco service station.
 Owner—General Petroleum Co., 1924
 Broadway, Oakland.

Plans by Owner's Engineers.
 Lindgren & Swinerton, 225 Bush St.
 Cahill Bros., 206 Sansome St.
 Reavey & Spivock, Shell Oil Bldg.
 Gauley & Yaunt, 293 22nd Ave.
 Clinton Stephenson Const. Co., Ltd.,
 Monadnock Bldg.
 S. Paul Speldel, 185 Stevenson St.
 Bids close June 5th, 5 P. M.

Plans Completed.
SERVICE STATION Cost, \$7000
SACRAMENTO, Sacramento Co., Cal.
 Fifteenth and N Sts.
 Service station (steel frame construc-
 tion).
 Owner—General Petroleum Co., 1924
 Broadway, Oakland.
 Plans by Owner's Engineers.
 Ready for bids in about one week.

Completing STATION Cost, \$15,000
 SERVICE STATION
 REDWOOD CITY, San Mateo Co., Cal.
 Bayshore Highway.
 Super service station (steel frame construction).

Owner—General Petroleum Co., 1924 Broadway, Oakland.
 Plans by General Engineers.
 To take bids in about two weeks.

Contract Awarded.
 SERVICE STATION Cost, \$8500
 SAN FRANCISCO. Fulton Street and Arguello Bldg.

Super service station.
 Owner—General Petroleum Co., 1924 Broadway, Oakland.
 Plans by Eng. Dept. of Owner.
 Contractor—Reavey & Spivock, Shell Bldg., San Francisco.
 Sub-Bids Wanted.

SERVICE BLDG. Cost, \$50,000
 VALLEJO, Solano Co., Cal. NW Sonoma and Main Sts. (130x150'-0")
 Two-story brick and steel automobile plant and service building.
 Owner—Acme Motor Co. (Vallejo Ford dealers), Vallejo.

Architect—Claude Barton, 522 Grand Ave., Oakland.
 William Spivock, general contractor, Hobart Bldg., San Francisco, desires sub-bids on all portions of the work in connection with above, for which general bids are to be opened June 5, 3 P. M.

GOVERNMENT WORK AND SUPPLIES

SAN FRANCISCO, Cal.—Jack Johnson Roofing Co., 3265 Army Street, at \$696.50 awarded contract by Constructing Quartermaster, Ft. Mason, for re-roofing Quartermaster Storehouse Building No. 26, at Letterman General Hospital.

CHILKOOT BARRACKS, Alaska—Worthington Co., 543 Howard St., San Francisco, at \$12,228 submitted low bid under Circular No. 6616-31-49, by Constructing Quartermaster, Fort Mason, to furnish and install three 75 hp. Diesel engines, direct connected to A. C. generators, 3-phase, 2300 volt, 50-cycle, automatic generator, voltage regulator, complete switchboard accessories, spare parts, etc., and for furnishing and installing two oil storage tanks all at Chilkoot Barracks, Alaska. Following is a complete list of the bids received:

Worthington Co., San Francisco	\$12,228
Fairbanks Morse Co., San Francisco	45,729
Knight & Knight	49,300
Western Enterprise Co., S. F.	49,791
Atlas Diesel Engine Co.	53,163
Anderson Engine & Power Co.	59,540

Bids held under advisement.

SAN FRANCISCO—Pacific Painting & Decorating Co., Oakland, at \$248.75 submitted lowest bid to Public Works Office, Twelfth Naval District, 100 Harrison St., San Francisco, for refurnishing office furniture at the Twelfth Naval District Staff Headquarters. Following is a complete list of bids received:

Pacific Painting & Decorating Co. 248	248.75
J. H. Devert Co., S. F.	320
Fink & Schindler, S. F.	546
A. G. Sandt & Son, S. F.	1172

Bids held under advisement.

SAN FRANCISCO—Guilfoyle Cornice Works, 1234 Howard St., at \$280 submitted lowest bid to Public Works Office, Twelfth Naval District, 100 Harrison St., San Francisco, for the improvement of the ventilation at the offices on the fifth floor of the District Staff Headquarters at 100 Harrison St. Following is a complete list of bids received:

Guilfoyle Cornice Works, S. F. \$280
 Conlin & Roberts " " " 360
 Fire Protection Products Co. " 575
 Bids held under advisement.

HONOLULU, T. H.—Hawaiian Contracting Co., Ltd., 554 Kahanuana St., Honolulu, submitted low bid of \$179,744 to the government for the construction of eight storage magazines, work shops, guardhouse, etc., at Moanalua Island. Recommendation was made that the contract be awarded to the low bidder.

SACRAMENTO, Cal.—Until June 11, 3 P. M., under Order No. 3374-Sac. 102, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver 16,300 lin. ft. piping. Specifications obtainable from above office.

OAHU, T. H.—William MacDonald Const. Co., Syndicate Trust Bldg., St. Louis, Mo., general contractors, are in the market for sub-bids in connection with the development for the Naval Ammunition Depot at Oahu, under Specification No. 6101, bids for which will be opened June 17, by the Bureau of Yards and Docks, Navy Dept., at Washington, D. C. The project involves the erection of 121 buildings, approximately 11 1/2 miles of railroads, 14 1/2 miles of paved roads and electrical, telephone and water supply systems. The MacDonald Const. Co. desires bids on plumbing, heating, electric and refrigeration and miscellaneous supplies, such as lumber, railroad ties and rails, brick, etc. Plans available for above items from L. Hecht, 340 Pine St., San Francisco. Telephone, EXbrook 4078.

ALBUQUERQUE, N. M.—Murch Bros. Const. Co., St. Louis, Mo., at \$660,000 submitted low bid to Construction Division, U. S. Veterans' Bureau, Washington, D. C., to erect buildings and utilities at Albuquerque. A complete list of the bids received on this project will be available at the office of Daily Pacific Builder within the next few days.

STOCKTON, San Joaquin Co., Cal.—Until June 8, 3 P. M., under Order No. 3346-STK-91, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to furnish and deliver Stockton:

- One Centrifugal Pump, 6-in. suction, 15-hp. discharge, 700 gals. per minute, 35 ft. head, direct connected to not less than 15 horsepower gasoline motor, mounted on steel frame truck with wheels similar and equal to "Barnes" model 703, catalog 25.
- 40 ft. suction hose, 6-in., 2 pieces, each 20 ft. long, one end of each pipe to be fitted with female pipe thread coupling and other end fitted with male pipe thread coupling. The hose shall be smooth bore, 5 to 7 ply canvas insertion metal, insertion similar and equal to "Cascade" brand made by Goodrich Rubber Co.
- One foot valve, 6-in., leather disc, with strainer similar and equal to Crane No. 394, pg. 125, Cat. 51.
- 40 ft. discharge hose, 4-in., 2 pieces each 20 ft. long, fitted one end with male and other end with female pipe thread couplings. The hose shall be smooth bore, 5 ply canvas insertion similar and equal to "Cascade" brand water hose.

CHILKOOT BARRACKS, Alaska—Until June 10, 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason, San Francisco, for equipment for water supply system at Chilkoot Barracks, Alaska, consisting of pipe and fittings, insulation material, intake caisson materials for constructing trestle and crib and water filter. Plans obtainable from above office.

SACRAMENTO, Cal.—Until June 8, 3 P. M., under Order No. 3351-183, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County:

- 6,000 C ft. wire rope, Seales construction, uncoated, plow steel, type (L) U. S. Army Master Spec. No. 297, dated May, 1925; 3/4-in. dia., hemp center, 6 strands, 19 wires to the strand. "Truly" brand, or equal. This rope shall be in six pieces, each 1000 feet long and each piece shall be on an individual reel.
- 1,000 C ft. wire rope, uncoated, regular lay, Warrington construction, 3/4-in. dia. plow steel, hemp center, six strands, 19 wires to a strand. Type (L) U. S. Army Master Spec. No. 297, dated May, 1925. This rope shall be in one piece, on an individual reel.

SEATTLE, Wash.—Lakeside Bridge and Steel Co., Milwaukee, at \$4,790 awarded contract by Bureau of Yards and Docks, Navy Department, at Washington, D. C., to furnish and install 5-ton electric traveling crane at Naval Air Station, Seattle.

Grading and Excavating Plans Complete.
 AIR BASE Cost approx. \$600,000
 ALAMEDA, Alameda Co., Cal.
 Group of buildings, etc.
 Owner—United States Government.
 Architect—Supervising Architect, Washington, D. C.
 Legal difficulties may delay work about 60 days. Work involves group of buildings, comprising shops, warehouse, canteen and barracks bldgs., central administration building and storage building, grading, sewer pipes, electric lighting system, pipe lines.

SACRAMENTO, Cal.—Until June 9, 3 P. M., under Order UO. 3352-1813, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County:
 5000 lbs. welding rods, 3/8" dia x 14" long, in 50-lb. bundles.
 500 lbs. welding rods, 1/2" dia. x 14" long, in 50 lb. bundles.

SACRAMENTO, Cal.—Until June 8, 3 P. M., under Order No. 3353-1813, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano County:
 40 lin. ft. 14 gauge, corrugated galvanized iron culvert pipe, 42" dia., to be made up in 2 sections each 20 ft. long.
 Two 14 gauge, corrugated galvanized iron coupling bands, for 42" dia. pipe, 10 ft. long. Each band to be 12-1/2" wide, complete with bolts, etc.

SACRAMENTO, Cal.—Until June 9, 3 P. M., under Order UO. 3350-1813, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver Rio Vista, Solano county, 5 coils of Manila Rope, 2 1/2-inch circumference.

HAWTHORNE, Nev.—A. D. Drumm Jr., Fallon, Nev., at \$15,000 awarded contract by Bureau of Yards & Docks, Navy Department, Washington, D. C., for asphaltic road oiling at Naval Ammunition Depot at Hawthorne, Nev. Complete bid listing previously noted.

PETALUMA, Sonoma Co., Calif.—Treasury Department has purchased site at Fourth and D Sts. from Mrs. Nellie McNear on which will be erected the new postoffice. The purchase price is \$18,000.

LOS ANGELES, Cal.—Until June 23, 2:30 P. M., bids will be received by U. S. Veterans' Bureau, Arlington Bldg., Washington, D. C., to furnish and in-

etal complete, two electric service elevators in Wadsworth Hospital at the National Military Home. The work will include removal of certain concrete floor slabs, tile partitions, etc., building of new hatchways, complete, and alterations to adjoining work. Plans obtainable from above office.

Plans Being Figured—Bids Close June 15, 11 A. M.
PAINTING Cost, \$—
SAN FRANCISCO. Letterman Hospital.
 Paint exterior of all hospital buildings at Letterman.
 Owner—United States Government.
 Plans by Constructing Quartermaster, Fort Mason.

SAN FRANCISCO.—Until June 17, 11 a. m., under Specification No. 6542, bids will be received by Public Works Officer, Twelfth Naval District, 100 Harrison st., for improvement to water front at the Receiving Ship Station, Yerba Buena Island, San Francisco Bay, involving repairs to the sea wall. Specifications obtainable from above office on deposit of \$10, returnable, checks for same to be made payable to the Chief of Bureau of Yards and Docks.

Sub-Contracts Awarded.
POSTOFFICE Cont. price, \$545,200
CAKLAND, Alameda Co., Calif. 12th, 13th, Alice and Jackson Sts.

Superstructure of class A postoffice (terra cotta exterior).
 Owner—United States Government.
 Plans by Supervising Architect, Treasury Dept., Washington, D. C.
 Contractor—K. E. Parker, 135 South Park, San Francisco.

Marble—Joseph Musto, Sons—Keenan Co., 585 North Point St. San Francisco.

Aluminum Work, Steel Windows and Hollow Metal Doors—A. H. Meyn Co., 163 2nd St., San Francisco.

Steelforms—Steelform Contracting Co., Monadnock Bldg., San Francisco.

As previously reported, structural steel awarded to Judson Pacific Co., 609 Mission St., San Francisco; heating to J. H. Pinkerton, 927 Howard St., San Francisco; plumbing to J. A. Pazio, 402 Castro St., Oakland; terra cotta to N. Clark & Son, 118 Natoma St., San Francisco; brick work to White & Gloor, Monadnock Bldg., San Francisco.

HALLS AND SOCIETY BUILDINGS

Completing Plans. Cost, \$30,000
ADDITION
BERKELEY, Alameda Co., Cal. No. 2001 Allston Way.

Two-story and basement frame and brick addition for gymnasium.
 Owner—Y. M. C. A., 2001 Allston Way, Berkeley.

Architect—W. H. Ratcliff, Chamber of Commerce Bldg., Berkeley.

Plans will be ready for bids about June 20.

Contract Awarded.
FURNISHINGS Cost, \$8,903.55

EUREKA, Humboldt Co., Cal.
 Furnish and install furnishings for Veterans' Memorial Building.

Owner—County of Humboldt, Fred M. Kay, county clerk.

Architect—Newton Ackerman, 102 W Fourth St., Eureka.

Contractor—L. Robinson Co., 557 Market St., San Francisco.

Other bidders were: Thomas Furniture House, Eureka, \$9,468; Standard Furniture Co., Eureka, \$9,769.03.

MEMORIAL Cost approx. \$20,000
VACAVILLE, Solano Co., Cal.
 One-story and basement Veterans' Memorial Building.

Owner—County of Solano.
 Architect—Kent & Hass, 525 Market St., San Francisco.

Following is a complete list of the bids received:
 George D. Hudnutt, 1915 S St., Sacramento\$14,400

Chas. F. Unger, Sacramento 15,100
 Wm. Spivack, San Francisco 15,711
 The Minton Co., Palo Alto 15,772
 Frank Cross, Oakland 15,946
 David Nordstrom, Oakland 16,906
 H. H. Larsen Co., S. F. 17,212
 N. H. Sjoberg & Son, S. F. 17,289
 John E. Branagh, Oakland 17,488
 Larsen & Larsen, S. F. 17,900
 C. G. Rose, Dixon 18,300

Bids held under advisement.

HOSPITALS

Contracts Awarded.
ADMINISTRATION BLDG. Cost \$—
WILCHAMP, Kern Co., Cal.

Administration building and cottages for California Institution for Women.

Owner—State of California.
 Plans by State Department of Public Works, Division of Architecture, Geo. B. McDougall, state architect Public Works Bldg., Sacramento.

The buildings are two stories with concrete floors and walls, concrete and tile partitions, wood roof construction and tile roof.
 The Administration Building has a total floor area of approximately 20,500 square feet.

The cottages, two of which are included in this contract, have a floor area of approximately 10,500 sq. ft.

General Work
 Wm. Rohlbacher, Santa Ana.....\$124,850

Electric Work
 R. R. Jones Elec. Co., 1124 Fair Oaks, Pasadena \$6,800.

Heating and Ventilating
 Hickman Bros., 910 E Anaheim, Long Beach, \$23,361.

Plumbing
 Thos. Haverly, 316 E 8th St., Los Angeles, \$17,105.

Contract Awarded. Cost, \$1,269,900
HOSPITAL

(exclusive of equipment and furnishings).
SEATTLE, Wash. Beacon Hill.

Class A concrete and steel Marine Hospital (320-bed capacity, stone and terra cotta trim).

Owner—United States Government.
 Architect—John Graham and Bebb & Gould, associate, Dexter - Horton Bldg., Seattle.

Contractor—N. P. Severin Co., 222 W Adams St., Chicago, Ill.

The tower will be 16 stories in height with wings seven stories in height. The north half of the main building will be 13 stories and the south half 11 stories. This is due to the slope of the site. The structure will be 256x135 feet in ground area. This contract includes all work except elevators, dumb waiters and lighting fixtures.

CALIFORNIA.—A program of expansion and improvement at California's state hospitals, involving the expenditure of \$1,436,500, is announced by Dr. J. M. Toner, state director of institutions. Included in the allotments is \$194,000 for the construction of two additional units at the Stockton State Hospital, and \$160,000 for the reconstruction of wards at the Mendocino State Hospital. Also, \$100,000 has been set aside for remodeling activities at the Napa State Hospital.

Other allocations are \$455,000 to the Agnews State Hospital, Santa Clara County, for a new ward building and employees' quarters; \$159,000 to the Norwalk State Hospital, Los Angeles, for new buildings for farm patients; \$182,000 to Pacific Colony, Los Angeles County, for a girls' industrial build-

ing and new wards; and \$100,000 to the Patton State Hospital for additional wards.

Bids Opened.
WARD UNIT Cost, \$—
TALMADGE, Mendocino Co., Cal.
 Two-story concrete Ward Building No. 14.

Owner—State of California.
 Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, state architect, Public Works Bldg., Sacramento.

The building is two stories with concrete floors and walls, concrete and tile partitions, wood roof construction and tile roof. The total floor area is approximately 16,500 sq. ft. Separate bids will be entertained for the following segregate part of the work and combinations thereof.

Following is a complete list of bids:

General Work
 The Minton Co., Mt. View\$47,674
 W. H. Spivock, San Francisco..... 48,650
 R. Hodgson 51,100
 A. Nelson, San Francisco 51,297
 J. J. Grodem & Co., Alameda 52,656
 J. S. Hannah, San Francisco 52,990
 C. J. Hopkinson, Sacramento 53,096
 David Nordstrom, Oakland 53,189
 B. C. Stickle, So. San Francisco 54,443
 E. T. Leiter & Son, Oakland 54,683
 Chas. F. Unger, Sacramento 54,990
 J. W. Cobby & Son, S. F. 55,973
 F. J. Maurer, Oakland 62,850

Heating
 Geo. C. Bell, 1826 E 15th Street, Oakland\$3,800

Woodland Plbg. & Hdwe. Co., Woodland 4,106

Pacific Heating & Vent. Co., Oakland 4,121

H. W. Sells, Ukiah 4,153

Ukiah Plb. & Heating Co., Ukiah 4,195

Carpenter & Mendenhall, Sacto., 4,224

J. A. Nelson, San Francisco 4,438

Electrical Work
 Roy M. Butcher, 1020 Sherwood, San Jose\$1,456

Gilbert Bros., San Jose 1,661

Geo. Woolf, Oakland 1,850

C. A. Langlais, S. F. 1,869

T. L. Rosenberg, Oakland 1,883

Eddy Electric Co., S. F. 1,914

Decker Electric Co., S. F. 1,930

Cox Electric Co. 1,936

Apex Electric Co., S. F. 1,945

Plumbing
 J. A. Pazio, 402 Castro St., Oakland\$5,989

Ukiah Plb. & Heating Co., Ukiah 6,241

W. S. Kelly, Ukiah 6,269

Carpenter & Mendenhall, Sacto., 6,311

Woodland Plbg. & Hardware Co., Woodland 6,757

Bids held under advisement.

Plans Being Figured—Bids Close June 30, 2 P. M.
GRADING Cost, \$—
YOUNTVILLE, Napa Co., Cal.

Rough excavating and grading site for hospital building.

Owner—State of California.
 Plans by State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento, (Geo. B. McDougall, State Architect).

The work involves excavating and grading of the site for a new hospital building, and excavating for all basement areas. No estimate of the total yardage involved is given and contractors will be required to measure the work and bid a lump sum for the work complete. An alternate bid will be required on a unit basis per cubic yard for excavating and stockpiling all top soil before commencing other excavation.

Specifications Being Written.
BUILDINGS Cost each, \$10,000
OAKLAND, Alameda Co., Calif. Del Val Tuberculosis Farm.

Two Preventorium buildings.
 Owner—County of Alameda.

Architect—H. H. Meyers, Kohl Bldg., San Francisco.

One building will be an open-air pavilion.

Bids To Be Taken Shortly.
NURSES' HOME Cost, \$250,000
HONOLULU, T. H.

Three-story concrete nurses' home (75 rooms, 25 baths).

Owner—Queen's Hospital.
Architect—C. W. Dickey, Honolulu.

Stucco exterior finish, interior partitions of cement blocks, terra cotta tile roof, concrete floors, electric elevators, standard plumbing goods, Oregon pine interior finish.

Bids Being Taken—Close June 30, 10:30 A. M.

ADDITION Cost, \$17,000
OAKLAND, Alameda Co., Cal. 18th and Poplar Streets.

Addition to detention home.

Owner—County of Alameda.

Architect—H. H. Meyers, Kohl Bldg., San Francisco.

Plans Being Completed—Bids To Be Asked Shortly.

HOSPITAL Cost, \$200,000
FRESNO, Fresno Co., Cal.
Fireproof County Hospital units.
Owner—County of Fresno, D. M. Barnwell, county clerk.

Architect—Swartz and Ryland, Brix Bldg., Fresno.

Bids will be asked on two units, one being the west wing, two stories in height, estimated to cost \$150,000, and the other, a one-story contagious ward estimated to cost \$50,000.

The crippled children's and surgery annex will be 50 by 160 feet at the north and south axis of a "T" shaped wing whose east and west leg will be 36 by 60 ft. A basement will be provided for the south half of the axis.

In the basement will be housed the physiotherapy and hydrotherapy departments. A pool 10 by 18 ft. will be included as a necessity in the treatment of paralyzed or weakened muscles.

The first floor, which will be on a level with the floor of the present main structure, is to be set aside entirely for pediatric and orthopedic cases and will house beds for 60 children. There will be two 10-bed wards, two 6-bed wards, on 8-bed admittance ward, 41-bed ward for acute cases, and two single-bed, soundproof wards for severe cases of chorea. In addition there will be a central nurses' station, utility and treatment rooms, bath rooms and other accommodations.

The surgery unit on the second floor will consist of two major operating rooms 15 by 18 ft., a minor operating room 12 by 18 ft., and an orthopedic operating room of the same dimensions. In between, provision will be made for sterilizing rooms, two anesthesia rooms, a surgeon's scrubup for general service room, a room for the preparation of plaster casts, rest rooms and showers for surgeons and nurses.

In addition, there will be quarters to furnish supplies for the whole hospital; three wards of 10, 6- and 4-beds for patients after operations; and utility and nurses' stations. The exterior design will follow the present stucco, tile-roofed administration building.

The contagious unit is to be erected south and west of the west annex and will not interfere with future extensions westward.

HOTELS

Plans To Be Prepared.
HOTEL, RESORT, ETC. Cost, \$—
PYRAMID LAKE, Nevada (33 miles NE of Reno, 2½ acre site).

CYCA C hotel (400 rooms) (Swastika type).

Owner—J. A. Marshall, Latham Square Bldg., Oakland.

Architect—J. A. Marshall, Latham Square Bldg., Oakland.

Preparing Preliminary Plans.
APARTMENT HOTEL COST, \$175,000
HUNTINGTON PARK, Los Angeles Co., Cal.

Four-story reinforced concrete hotel apartments.

Owner—Wittheld.
Architect—H. W. Charlton, Herbert L. Booth and Assoc., 219 W-Sixth St., Los Angeles.

Preparing Plans.
HOTEL ADDITION Cost, \$250,000
EL CENTRO, Imperial Co., Cal.
100-room hotel addition (masonry construction, tile and composition roof)

Owner—Barbara Worth Hotel, El Centro.

Architect—Don Wells and Ralph Swearingen, 110 N. 6th St., El Centro.

Contract Awarded.
HOTEL Cost, \$175,000
WAIKIKI, Honolulu, T. H.

Two-story concrete hotel administrative bldg. (27 rooms, 22 baths).

Owner—Clifford Kimball.
Architect—C. W. Dickey, Honolulu.
Contractor—G. J. Oda Contracting Co. Ltd., Honolulu.

Interior partitions to be of stucco, exterior finish cement blocks, asbestos shingle roof, concrete floors, automatic push button elevator, Kohler plumbing goods, Oregon pine and redwood interior finish.

POWER PLANTS

HANFORD, Kings Co., Calif.—Proceedings have been started for the formation of a public utility district to include lands of the Corcoran Irrigation District and the city of Corcoran, 20 miles south of Hanford. Establishment of a central power plant or smaller units with natural gas as fuel, is proposed. Preliminaries for formation of the district were arranged at a recent mass meeting in Hanford.

PASADENA, Cal.—All bids for furnishing and installing a steam condenser at the municipal light plant, received by the Pasadena city directors May 15 were rejected by the board May 26 on the grounds that the four low bids did not legally comply with the specifications. New specifications will be prepared and a new call for bids issued.

BOULDER CITY, Nevada—Newbery Electric Corp., 726 S Olive St., Los Angeles, awarded contract by U. S. Bureau of Reclamation, Las Vegas, Nev., at \$3340 (exclusive of certain materials to be furnished by the government) for construction of transmission lines from the Hoover Dam sub-station to Boulder City and to Pumping Plant No. 1, Boulder Canyon Project, Arizona - California - Nevada. The work will consist of the construction of 5.83 miles of single circuit, 33,000-volt, wood pole transmission line and 0.73 mile of single circuit, 2300-volt transmission line and the placing of a telephone circuit on the poles of the 2300-volt line.

LOS ANGELES, Cal.—Bids for furnishing creosoted wooden cross arms under Specification No. 2463 for department of water and power were opened by the Los Angeles city purchasing agent, Thomas Oughton, June 1. The items are:

(1) 4000 10-in. cross arms;
(2) 300 8-in. cross arms.
The bids were:
Graybar Electric Co., (1) \$3497.60

(2) \$356.70; terms, 1% 10th prox.
L. W. Blinn Lbr. Co., (1) \$2840 (2) \$255; terms net 15 days
Maydwell & Hartzell Co., (1) \$3246.40 (2) \$331.02; terms net
J. H. Baxter Co., (1) \$2880 (2) \$306; terms net

Joslyn Co. of Calif., (1) \$3497.00 (2) \$339.40; terms, 1% 15 days
General Electric Supply Corp., (1) \$3244 (2) \$393.96; terms, 1% 15 days
Hammond Lbr. Co., (1) \$3428 (2) \$343.50; terms net.

CHILKOOT BARRACKS, Alaska.—See "Government Work and Supplies" this issue. Bids opened by Constructing Quartermaster, Fort Mason, to furnish and install Diesel engines, etc., for Chilkoot Barracks.

LOS ANGELES, Cal.—Until 11 A. M. June 9, bids will be received by the Los Angeles city purchasing agent, Thomas Oughton, for furnishing 12,000 ft. No. 6 AWG, 600-volt, lead-covered cable under Specification No. 2460 for department of water and power.

BEVERLY HILLS, Los Angeles Co., Cal.—The Southern California Edison Co., Ltd. plans expenditure of \$152,000 for substitution equipment in the Beverly Hills district. Carl N. Elgan is manager of the Santa Monica Bay district offices.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Bids Opened.
EQUIPMENT Cost, \$—
FAIRFIELD, Solano Co., Cal.
Equipment for County Library.
Owner—County of Solano.
Architect—Not Given.

Following is a complete list of bids:
Rucker Fuller Co., 539 Market St., San Francisco.....\$2,469
Home Mfg. Co., San Francisco.....2,744
Remington Rand Co., S. F.....2,785
Braas & Kuhn, S. F.....3,887
Bids held under advisement.

RICHMOND, Contra Costa Co., Cal.—W. L. Harris, 305 Ripley Ave., Richmond, at \$375, awarded contract by city council to paint firehouse No. 1 and at \$330 for firehouse No. 3 and to Lambie and Lambie, 533 Barrett Ave., Richmond, at \$318 for firehouse No. 4. Following is a complete list of bids received:

Firehouse No. 1	
W. L. Harris.....	\$375.00
Lambie and Lambie.....	570.00
C. L. Swartout.....	731.00
Joseph Burdon & Son.....	790.00
Firehouse No. 3	
W. L. Harris.....	\$338.00
Lambie and Lambie.....	385.00
C. L. Swartout.....	625.00
Joseph Burdon & Son.....	656.00
Firehouse No. 4	
Lambie and Lambie.....	\$318.00
W. L. Harris.....	318.40
C. L. Swartout.....	648.00
Jos. Burdon & Son.....	650.00

Plumbing, Heating and Ventilating
Bid Opened Pistoned Until June 9th, 2 P. M.

LEGION BLDG. Cost, \$2,500,000
SAN FRANCISCO. Civic Center.
Four-story and basement concrete class A Legion Building.

OPERA HOUSE Cost, \$2,500,000
Six-story class A opera house, seating capacity, 4000; standing room, 500.

Owner—City and County of San Francisco (S. F. War Memorial).
Architect—G. A. Lansburg, 140 Montgomery St., and Arthur Brown, 251 Kearny Street.
Mfrs. of Const.—Lindgren & Swinerton, Inc., 225 Bush St.

Setting of Architectural Terra Cotta, Hollow Tile and Fireproofing Contracts Awarded.
LEGION BLDG. Cost, \$2,500,000
 SAN FRANCISCO. Civic Center. Four - story and basement concrete class A Legion Building.
OPERA HOUSE. Cost, \$2,500,000
 Six-story class A opera house, seating capacity, 4000; standing room, 500.
Owner—City and County of San Francisco (S. F. War Memorial).
Architect—G. A. Lansburgh, 140 Montgomery St., and Arthur Brown, 251 Kearny Street.
Mgts. of Const.—Lindgren & Swinerton, Inc., 225 Bush St.
Architectural Terra Cotta and Hollow Tile—Hock & Hoffmeyer, 666 Mission Street.
Fireproofing—MacDonald & Kahn, Financial Center Bldg.
 Complete list of bids published May 20th.

MODESTO. Stanislaus Co., Cal.—County supervisors are again considering the erection of a new county courthouse to replace the present structure which is declared "to be a fire-trap and a menace to both life and property." A bond issue is contemplated. The courthouse unit, according to tentative estimates, would cost \$450,000 and a hall of records building, \$250,000.

BERKELEY, Alameda Co., Calif.—City Manager Hollis R. Thompson announces funds will be provided in the 1931-32 budget to finance purchase of steel filing equipment for the city clerk's office.

RESIDENCES

Plans Being Revised.
RESIDENCE Cost, \$16,000
BERKELEY, Alameda Co., Cal. Stone-wall Road.
 Two-story and basement frame and stucco residence.
Owner—Miss Winifred Lee, San Francisco.
Architect—Irwin M. Johnson, 2215 7th Ave., Oakland.
 New plans will be ready for bids next week.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7500
OAKLAND, Alameda Co., Cal. 5732 Ivanhoe Road.
 Two-story and basement frame and (7 rooms).
Owner and Builder—Ernest W. Urch, 5740 Ivanhoe Road, Oakland.
Plans by Owner.
Lumber—Sunset Lumber Co., 400 High St., Oakland.

Plumbing—Ambrose Bros., 206 Chumalis St., Oakland.
Steel Sash—Michel & Pfeiffer, 10th and Harrison Sts., San Francisco.
Brick and Stone—Gardner, Elliott and Marshal.
Electrical Work—Fred Schmidt.

Contract Awarded.
ALTERATIONS Cost, \$10,000
SAN FRANCISCO. N Pacific Ave. W Scott St.
 Alterations and additions to residence.
Owner—Mrs. Alex. Field, 2712 Pacific Avenue.
Architect—G. W. Kelham, 315 Montgomery Street.
Contractor—Taylor & Jackson, 290 Tehama Street.

Preparing Working Drawings.
RESIDENCE Cost, \$12,000
JACKSON, Amador Co., Cal.
 Two-story and basement frame and stucco residence (7 rooms).
Owner—Calvin Jackson, Jackson.
Architect—Harry Devine, California State Life Bldg., Sacramento.
 Plans will be ready for bids June 6.

Plans Being Prepared.
RESIDENCE Cost, \$10,600
BERKELEY, Alameda Co., Cal. St. Mary Magdalene Parish.
 Two-story and basement frame and stucco residence for Nuns.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
Architect—Arnold Constable 530 Market St., San Francisco.

Taking Segregated Figures.
RESIDENCES Cost each, \$6000
SAN FRANCISCO. Parkside District, 17th near Vicente St.
 Two-story and basement frame and stucco residences.
Owner and Builder—Kenneth Evers, 97 San Pablo, San Francisco.
Architect—Charles Strothoff, 2274 15th Street.

Plans Being Completed.
RESIDENCE Cost, \$12,500
PALO ALTO, Santa Clara Co., Cal.
 One-story and basement frame and stucco residence (8 rooms and 2 baths; Spanish style; tile roof; hot air gas heating).
Owner—Withheld Temporarily.
Architect—Treichel & Goodpaster, 1540 San Pablo Ave., Oakland.
 Bids will be taken in two weeks.

Sub-Bids Being Taken.
RESIDENCE Cost, \$19,300
PALO ALTO, Santa Clara Co., Cal. No. 2055 Cowper Street.
 One-story and basement frame and stucco residence (English style; 8 rooms, 2 baths; shingle roof, imitation plans floors, hot air gas heating).
Owner—Cleveland Smith.
Architect—Treichel & Goodpaster, 1540 San Pablo Ave., Oakland.

Contract Awarded.
RESIDENCE Cost, \$10,000
BURLINGAME, San Mateo Co., Cal.
 Two-story and basement frame and stucco residence (7 rooms and 2 baths).
Owner—David Simpson.
Architect—E. L. Norberg, 580 Market St., San Francisco.
Contractor—G. W. Williams Co., Ltd., Crawford Bldg., Burlingame.

Preparing Plans.
RESIDENCE Cost, \$200,000
BEVERLY HILLS, Los Angeles Co.
 Large Colonial residence.
Owner—E. L. Cord, 616 Arden Drive, Beverly Hills.
Architect—Paul R. Williams, 3839 Wilshire Blvd., Los Angeles.

Site Purchased.
BUNGALOWS \$5000 to \$7000 each
FRESNO, Fresno Co., Cal. North Van Ness and Cornell Aves.
 Fourteen one-story frame and plaster bungalows.
Owner—E. R. Ecklund, 1469 White St., Fresno.
Private Plans.

Contract Awarded.
RESIDENCE Cost, \$7000
SAN FRANCISCO. 17th Avenue and Quintara Street.
 One-story and basement frame and stucco residence (5 rooms).
Owner—A. G. Hieronimus, 1339 26th Avenue.
Architect—Chas. Strothoff, 2274 15th Street.
Contractor—Henry Doelger, 300 Judah Street.
 Gas furnace, composition roof.

Contract Awarded.
RESIDENCE Cost, \$8500
MILLBRAE HIGHLANDS, San Mateo Co., Calif.
 One-story and basement frame and stucco residence (7 rooms).
Owner—Withheld.
Architect—Chas. Strothoff, 2274 15th St., San Francisco.
Contractor—Moses Little, 1456 Cabrillo St., Burlingame.
 Composition roof, gas furnace.

Plans Complete—To Ask Bids Shortly.
RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Calif. 8 W Trestle Glen Road and Norwood Avenue.
 Two-story and basement frame and stucco residence (8 rooms and 2 baths).
Owner—O. E. Nelson.
Architect—Willis Lowe, 354 Hobart St. Oakland.
 Composition roofing, gas furnace.

Bids To Be Taken In Few Days.
RESIDENCE Cost, \$8500
OAKLAND, Alameda Co., Cal. Montclair District.
 Two-story and basement frame and stucco residence (6 rooms and 2 baths; gas hot air heat, tile roof, electric refrigerator).
Owner—Chas. B. Gillean, 2629 Dwight Way, Berkeley.
Plans by A. L. Herberger, 770 Wesley Ave., Oakland.

Sub Bids Being Taken.
RESIDENCES Cost each, \$5000
SAN FRANCISCO. Balboa Terrace.
 Two 1-story and basement frame and stucco residences (7 rooms each).

ORNAMENTAL WIRE AND IRON WORK

IRON FENCE and Gates

TENNIS COURT ENCLOSURES
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SAN FRANCISCO, CALIFORNIA

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Continuous Operation Since 1887

Owner—Castle Bldg. Co., 830 Market Street.
Architect—Not Given.
Contractor—A. J. Herzog, Ocean and San Benito Aves.

Painting Contract Awarded.
RESIDENCE Cost approx. \$35,000
HILLSBOROUGH, San Mateo Co., Cal.
Two - story and basement frame and stucco residence

Owner—W. H. Berg.
Architect—Willis Polk Co., 277 Pine St., San Francisco.
Contractor—A. F. & C. W. Mattock, 210 Clara St., San Francisco.

Painting—A. A. Zelnisky, 4420 California St., San Francisco.
Other awards reported May 23.

Construction Postponed Temporarily.
RESIDENCES Cost each, \$15,000
HILLSBOROUGH, San Mateo Co., Cal.
Two 2-story and basement frame and stucco residences (8 rooms and 2 baths each).

Owners—Lloyd and Sidney L i a b e s , Post Street and Grant Avenue, San Francisco.
Architect—Wm. I. Garren, 233 Post St., San Francisco.

Completing Plans.
RESIDENCE Cost, \$6500
SAUSALITO, Marin Co., Cal.
One - story and basement wood frame residence (6 rooms, tile roof, heating system).

Owner—Withheld.
Architect—Wm. I. Garren, 233 Post St. San Francisco.
Plans will be ready for figures in a few days.

Owner Taking Sub Bids.
RESIDENCE Cost, \$19,300
PALO ALTO, Santa Clara Co., Cal.
No. 2015 Cowper Street.

One-story and basement frame and stucco residence (English style; 8 rooms, 2 baths; single roof, imitation plans floors, hot air gas heating).

Owner—Cleveland Smith, President Hotel, 935 Geary St., S. F.
Architect—Treichel & Goodpastor, 1540 San Pablo Ave., Oakland.

Contract Awarded
RESIDENCE Cost, \$5000
PALO ALTO, Santa Clara Co., Calif.
W. Washington Ave. near Cowper.

Two - story and basement frame and stucco residence (wood shingle roof).

Owner—Lee L. Yancey, 173 Waverly St., Palo Alto
Architect—Erwin E. Reichel, 532 Emerson St., Palo Alto.
Contractor—Wells P. Goodenough, 210 University Ave., Palo Alto.

Taking Segregated Bids.
RESIDENCE Cost, \$4000
SAN FRANCISCO. 14th Avenue near Rivera Street.

One - story and basement frame and stucco residence (6 rooms).

Owner and Builder—G. Dahlstrom, 2219 14th Ave.
Plans by E. K. Dobkowitz, 425 Monterey Blvd.
Lumber—Sudden Lumber Co., Evans and Quintara Sts.

Contract Awarded.
RESIDENCE Cost, \$18,000
PALO ALTO, Santa Clara Co., Calif.
Stanford University Campus.

Two - story and basement frame and stucco residence (9 rooms and 4 baths; shakes roof, gas heating system).

Owner—O. H. Blackman, 548 Gerona, Stanford University, Palo Alto.
Architect—Chas. K. Sumner, 57 Post St., San Francisco.
Contractor—E. J. Schmalling, 365 Melville Ave., Palo Alto.

Contract Awarded.
RESIDENCE Cost, \$5000
LOS ALTOS, Santa Clara Co., Cal.
One - story and basement frame and stucco residence (5 rooms).
Owner—A. Crow.
Architect—Erwin E. Reichel, 532 Emerson St., Palo Alto.
Contractor—J. W. Calbage, 274 College Ave., Palo Alto.

Plans Being Completed.
RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal. Kirkmont Avenue.

One - story and basement frame and stucco residence (5 rooms).

Owner—R. B. Gills, 1159 Spruce St., Berkeley.
Architect—Frederick H. Reimers, 233 Post St., San Francisco.
Plans will be ready for bids in about one week.

Plans Being Figured—Bids Close June 9th.
RESIDENCE Cost, \$8500
MODESTO, Stanislaus Co., Cal.
One - story and basement frame and stucco residence.

Owner—Paul Cooper.
Architect—G. N. Hilburn, Elks Bldg., Modesto.

Contract Awarded.
ALTERATIONS Cost, \$20,000
BERKELEY, Alameda Co., Calif. 1756 Euclid Avenue.

Alterations to two-story and basement frame and stucco fraternity house.

Owner—Phi Kappa Sigma, premises.
Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.
Contractor—J. V. Short, 1386 Euclid Ave., Berkeley.

Being Done By Day's Work.
RESIDENCE Cost, \$14,000
PALO ALTO, Santa Clara Co., Cal.
No. 1111 Hamilton Avenue.

Two-story and basement frame and stucco residence.
Owner and Builder—W. F. Klay, Menlo Oaks Drive, Menlo Park.
Architect—Not Given.

Contract Awarded.
RESIDENCE Cost, \$5000
DAVIS, Yolo Co., Cal.

One-story and basement frame and stucco residence (5 rooms; English style).

Owner—Mr. and Mrs. Kleiber, Davis.
Architect—W. E. Coffman, Forum Bldg., Sacramento.
Contractor—Guth & Fox, 1516 27th St., Sacramento.

Contract Awarded.
RESIDENCES \$12,000 each
BERKELEY, Alameda Co., Cal. Arch Street.

Two two-story and basement frame and stucco residences (tile roofs; hot air heat).

Owner—Not Given.
Architect—E. L. Snyder, 2101 Addison St., Berkeley.
Contractor—Geo. Windsor, 923 Kingsland Ave., Oakland.

Completing Plans.
RESIDENCE Cost approx. \$50,000
HILLSBOROUGH, San Mateo Co., Cal.
Two - story and basement frame and stucco residence.

Owner—Withheld.
Architect—Miller and Warnecke, Financial Center Bldg., Oakland.
Plans will be ready for bids in about 30 days.

To Be Done By Day's Work.
RESIDENCE Cost, \$7000
BERKELEY, Alameda Co., Cal. 2723 Buena Vista Way.

Two - story and basement frame and stucco residence.

Owner—J. B. Tufts, 1317 Arch Street, Berkeley.
Architect—Bernard R. Maybeck, 163 Sutter St., San Francisco.
Construction supervised by—W. Melvin, 2236 Blake St., Berkeley.

Prospective Bidders.
RESIDENCE Cost, \$14,000
PALO ALTO, Santa Clara Co., Calif.
Two - story and basement frame and stucco residence (shakes roof, gas heating system; 7 rooms, 2 baths).

Owner—Aif. Welhaven, Palo Alto.
Architect—Chas. K. Sumner, 57 Post St., San Francisco.

J. H. McFarland, 291 27th Avenue, San Francisco.
H. S. Shain, 54 Arlett Ave., Hayward.

Wm. Short, 2121 Waverly St., Palo Alto.
E. J. Schmalling, 863 Melville Ave., Palo Alto.

H. E. Post, 1330 Webster St., Palo Alto.
The Minton Co., Addison Ave., Palo Alto.

W. P. Goodenough, 310 University Ave., Palo Alto.
L. A. Bachelder, 1152 Fulton St., Palo Alto.

F. W. Fox, 1101 Waverly St., Palo Alto.

Low Bidder.
RESIDENCE Cost, \$15,000
STOCKTON, SAN JOAQUIN CO., Cal. Oxford Manor.

Two - story and basement frame and stucco residence (6 rooms).

Owner—G. F. Schuler, 1130 E Weber St., Stockton.
Architect—Jos. Losekann, 1218 West Harding St., Stockton.

Low Bidder—T. R. Williamson, Stockton.
Plans Completed.
RESIDENCE Cost, \$7,000
STOCKTON, SAN JOAQUIN CO., Cal.
Two - story and basement frame and

"Gold Medal" Safety Scaffolding

for use on steel and concrete frame buildings; saves lives, time and money

It pays to use the best Scaffolding Equipment whenever a Scaffold is required. The risk is always great.

THE PATENT SCAFFOLDING COMPANY

270 13th Street, San Francisco - Phone HEMlock 4278

Lessor of Suspended and Swinging Safety "Gold Medal" Scaffolding.

brick veneer residence (English type; single roof, hot air heating, steel window sash).

Owner—Edw. Van Vranken.
Architect—Jos. Losckann, 1213 West Harding St., Stockton.
Plans will be ready for bids shortly.

Completing Plans.

RESIDENCE Cost, \$7500
SAY RAFAEL, Marin Co., Cal.
Two-story and basement frame and stucco residence (6 rooms, part tile roof, tile baths, gas and hot air heating).

Owners—Mr. and Mrs. Campton, San Rafael.
Architect—Charles Strothoff, 2274 15th St., San Francisco.

SCHOOLS

Prospective Bidders.

GYMNASIUM Cost, \$25,000
OROVILLE, Butte Co., Calif.
One-story steel frame and reinforced concrete gymnasium.
Owner—Oroville Union High School District.

Architect—N. W. Sexton, deYoung Bldg., San Francisco.
Following contractors will submit bids:

Oliver S. Almie, 60 Sussex St., San Francisco.

A. Frederick Anderson, 1093 Longridge Road, Oakland.

T. B. Goodwin, 2950 Divisadero St., San Francisco.

Albert A. Plagege, 1474 30th Avenue, San Francisco.

Chas. F. Unger, 4522 T St., Sacramento.

Frank Cross, 828 Excelsior St., Oakland.

W. J. Shalz, Chico.

Mahrey-Conner, Forum Bldg., Sacramento.

M. R. Petersen, 1544 37th Avenue, Sacramento.

F. H. Betz, 1017 43rd St., Sacramento.

J. P. Brenning, Redding.

I. M. Sommer, 901 Bryant St., San Francisco.

Bids are to be opened June 11, 7 P. M.

Prospective Bidders—Bids Close June 9, 8 P. M.

SCHOOL Cost, \$9000
RICHMOND, Contra Costa Co., Cal.
One-story and basement (two classrooms) frame and stucco school.
Owner—Sheldon School District.

Architect—James T. Narbett, 474 31st St., Richmond.

Tandy & Theis, 1937 Gravin St., Richmond.

D. Y. Hoskins, 5121 Solano Ave., Richmond.

Certified check 10% payable to P. L. Castro, clerk of district, required with bid. Plans obtainable from the architect on deposit of \$5, returnable.

Completing Plans.

CAFETERIA Cost, \$5500
RICHMOND, Contra Costa Co., Cal.
Twenty-third Street.
One-story frame and brick veneer cafeteria for high school (asphalt shingle roof).

Owner—Richmond Union High School, 23rd St., Richmond.

Architect—James T. Narbett, 474 31st St., Richmond.

Plans will be ready for bids in a few days.

Preparing Plans.

ALTERATIONS Cost, \$12,000
MODESTO, Stanislaus Co., Cal.
Alterations and additions to one-story and basement brick school.
Owner—Modesto Grammar School District.

Architect—Davis-Pearce Co., 47 North Grant St., Stockton.

Contract Awarded.

REMODELING Cost, \$2500
WILLOW GLEN, Santa Clara Co., Cal.
Finish 2 classrooms in present school (blackboards, plastering, flooring, heating system, etc.)

Owner—Willow Glen School District.
Architect—Wolfe and Higgins, Realty Bldg., San Jose.

Contractor—N. J. Nielsen, 1270 Iris Court, San Jose.

Following is a complete list of bids:

N. J. Nielsen, San Jose.....\$1,560

The Minton Co., Mt. View.....1,692

Paul Anderson, San Jose.....1,729

Heating

A. M. Turner, 553 N. 19th St., San Jose.....\$315.50

A. J. Peters, San Jose.....194.00

H. Pascoe, San Jose.....230.00

Heating bids held under advisement.

Prospective Bidders.

ALTERATIONS Cost, \$3000
ALBANY, Alameda Co., Cal. No. 602

Pomona Avenue.
Alterations to high school (changes in windows, metal stairway, remodel three bungalows).

Owner—Albany School District (L. J. Fletcher, Secretary), Albany.

Architect—P. L. Dragon, Mercantile Bank Bldg., Berkeley.

J. Harold Johnson, Hearst Bldg., San Francisco.

David Nordstrom, 354 Hobart St., Oakland.

S. O. MacDonald & Son, 2912 Deakin St., Berkeley.

Emil Person, 829 San Luis Road, Berkeley.

J. B. Bishop, 1323 E-25th St., Oakland.

A. Icardi, 972 Aileen St., Oakland.

E. Guay, 1318 Portland Ave., Albany

Sullivan & Sullivan, 3927 Best Ave., Oakland.

A. E. Reinzersten, 914 Carmel St., Albany.

Bids will be opened June 5, 8 P. M.

Deposit of \$5 required for plans and specifications.

Plans Being Figured—Bids Close June 13, 7:30 P. M.

ADDITION Cost, \$5500
SALINAS, Monterey Co., Cal.

Frame addition to school (add 1 classroom, toilets, etc.)

Owner—El Sausal Grammar School District.

Architect—Chas. E. Butner, 22 Glickburg Bldg., Salinas.

Sub-Contracts Awarded.

SCHOOL Cost, \$—
OAKLAND, Alameda Co., Cal. Piedmont Highlands.

Two-story and basement reinforced concrete parochial school.

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.

Architect—H. A. Minton, Bank of America Bldg., San Francisco.

Contractor—Thos. F. L. Furlong, 460 Jerome Ave., Piedmont.

Excavating—Ariss-Knapp Co., 961 41st St., Oakland.

Concrete—J. H. Fitzmaurice, 354 Hobart St., Oakland.

Reinforcing Steel—McGrath Steel Co., 254 Hobart St., Oakland.

Millwork—Alhambra Mill & Mfg. Co., 2985 Chapman St., Oakland.

Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Finish Hardware—Maxwell Hardware Co., 1320 Washington St., Oakland.

Rough Lumber—P. K. Wood Lbr. Co., Frederick and King Sts., Oakland.

Plastering—Wm. Makin, 354 Hobart St., Oakland.

Roofing—General Roofing Co., 398 S. Beach St., Oakland.

Glass—W. P. Fuller & Co., 259 10th St., Oakland.

Terrazzo—Oakland Concrete & Terrazzo Co., 2227 Market St., Oakland.

Painting—Paul Baker, 794 Scott St., Oakland.

Plans Being Figured

SCHOOL Cost, \$30,000
SAN FRANCISCO, 16th and Dolores Streets.

Two-story and basement reinforced concrete and steel frame parochial school.

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St.

Architect—H. A. Minton, 255 Market Street.

Engineer—L. H. Nishkian, 525 Market Street.

Mechanical Engineers—Leland & Haley, 58 Sutter St.

Will be known as Mission Dolores School. Father John Sullivan is pastor of the Mission Dolores Church.

Being Done By Jay's Work By Owner SHOP BLDG. Cost, \$5000

SALINAS, Monterey Co., Cal.

One-story frame shop.

Owner—Salinas Union High School District, Salinas.

Architect—Swartz & Ryland, Spazler Bldg., Monterey.

Plans Being Completed.

SCHOOL Cost, \$35,000
ST. HELENA, Napa Co., Cal.

One-story reinforced concrete grammar school and auditorium (eight classrooms and auditorium).

Owner—St. Helena Grammar School District.

Architect—Wolfe & Higgins, Realty Bldg., San Jose.

Plans will be ready for bids in about three weeks.

Sub-Bids Wanted.

SCHOOL Cost, \$15,000
CLARKSBURG, Yolo Co., Cal.

One-story brick addition to grammar school (add two classrooms).

Owner—Clarksburg Grammar School District.

Architect—Charles De An, California State Life Bldg., Sacramento.

Lindgren & Swinerton, Inc., California State Life Bldg., Sacramento.

general contractors, desire sub-bids on all portions of the work in connection with above for which general contract bids are to be opened June 9th, 8 P. M.

Contracts Awarded.

ADDITION Cost, \$—
CHICO, Butte Co., Cal.

One-story brick assembly hall addition

Owner—State of California.

Plans by State Department of Public Works, Division of Architecture,

Geo. B. McDougall, State Architect

Public Works Bldg., Sacramento.

General Contract—A. F. Anderson, 1093 Longridge Road, Oakland, at \$28,943.

Plumbing and Heating—W. H. Robinson, 715 W-Emerson St., Monterey

Fork, at \$1300.

Electrical Work—Roy M. Eutcher, 1020

Sherwood St., San Jose, at \$1244.

The addition will have pile foundations, concrete floors, brick walls, tile partitions, concrete and wood roof construction and tile and composition roofing. It will have floor area of approximately 5664 sq. ft.

Taking Segregated Figures.

ADDITION Cost, \$10,000
OAKLAND, Alameda Co., Cal. Mills

College Campus.

One-story reinforced concrete addition to Art Building.

Owner—Mills College, Seminary and Camden Aves., Oakland.

Architect—W. H. Ratcliff Jr., Chamber of Commerce Bldg., Berkeley.

Supervisor of Constr.—J. Brown, Mills Campus.

Bids wanted on lumber, reinforced concrete, mill work, stone work, steel sash, tile roof, plaster. Painting and electrical work and heating will be done by Mr. Brown.

Plans Being Figured—Bids Close June 25, 8 P. M.

FENCING Cost, \$—
FRESNO, Fresno Co., Cal.
 Furnish and install fencing on Tulare St. side of the Theodore Roosevelt High School and completion of the fence on the north side of the T. L. Henton School grounds.
Owner—Fresno School District, L. L. Smith, secretary, Board of Education, 2425 Fresno St., Fresno.
Architect—Not Given.

Confirmed check or bidder's bond 10% required with bid. Specifications obtainable from the secretary.

Bids Opened—Held Under Adjudgment.
EQUIPMENT Cost, \$—
SANTA BARBARA, Santa Barbara Co., Calif.

Electrical and mechanical equipment for school.
Owner—Santa Barbara Jr. High School
Architect—W. H. Weeks, 525 Market St., San Francisco.

Electric Work
 California Electric Co., Santa Barbara, \$28,357; (extra, add \$80).
 Gullbert Bros., San Jose, \$29,113; (extra, add \$882).

Mechanical Work
 Hickman Bros., San Pedro, \$38,995
 Ott Hardware Co., Santa Barbara, \$39,000
 Conny & Winterbottom, L. A., \$39,789
 Sweeney & Sons, Santa Barbara 41,375

Date of Opening Bids Postponed Until June 8th, 8 P. M.

SCHOOL Cost, \$2,400
SANTA ROSA, Sonoma Co., Cal. (Burbank Grammar School).
 Plumbing system for school and finish toilet rooms.
Owner—Santa Rosa School Dist., % F. O. Pryor, 1505 13th St., Santa Rosa
Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.

Contract Awarded.

ADDITION Cont. price, \$18,680
CASTROVILLE, Monterey Co., Cal.
 One-story reinforced concrete school addition.
Owner—Castroville Union Grammar School District.
Architect—W. H. Weeks, 525 Market St., San Francisco.
Contractor—M. M. Meyer, Cupertino.
 Complete list of bids follows:
 M. M. Meyer, Cupertino, \$18,680
 Wm. Spivock, San Francisco, 18,700
 J. H. Graham, Salinas, 19,272
 M. J. Murphy, Carmel, 19,434
 Minton Co., Palo Alto, 19,981
 W. J. Ochs, San Jose, 19,982
 P. T. Wallstrom, Watsonville, 20,450
 J. H. Rosewall, " 20,482
 A. Staton, Oakland, 21,400
 C. B. Younger, " 21,960

Bids Opened.

SHOP Cost, \$10,000
EMERYVILLE, Alameda Co., Cal.
 One-story shop (steel trusses, stucco, tile walls).
Owner—Emeryville High School Dist.
Plans by Samuel Arnold, 3499 San Pablo Ave., Oakland.

Following is a complete list of bids:
 Geo. Maurer, 50 York Dr., Oakland, \$7,999
 Geo. Swannstrom, Oakland, 8,069
 N. W. Place, Oakland, 8,270
 W. C. Keating, Oakland, 8,333
 Sullivan & Sullivan, Oakland, 8,493
 Vogt & Davidson, Oakland, 8,683
 C. Roth, Oakland, 8,700
 T. D. Courtright, Oakland, 8,750
 C. D. Vezey & Son, Oakland, 8,788
 N. H. Sjoberg & Son, Oakland, 8,841
 Gaubert Bros., Oakland, 8,940
 Villadsen Bros., San Francisco, 8,975
 Emil Person, Oakland, 8,989
 Jacobs & Pattiani, Oakland, 9,140
 J. J. Groden & Co., Alameda, 9,250
 J. E. Branagh, Oakland, 9,454
 S. O. McDonald, Oakland, 9,800
 E. T. Leitter & Son, Oakland, 9,837
 Bids held under advisement.

Plans Being Figured—Bids Close June 8, 12 Noon.

PLUMBING Cost, \$—
FRESNO, Fresno Co., Cal.
 Furnish and install toilet systems (both water-flush and chemical types will be considered).
Owner—Madison Elementary School District, G. W. Glenn, clerk, Kearny and Tellman Aves., Fresno.
Architect—Not Given.
 Specifications obtainable from the clerk of the district at Fresno.

Bids Opened.
SCHOOL Cost, \$20,000
EMERYVILLE, Alameda Co., Cal.
 One-story brick elementary school (4 classrooms).
Owner—Emeryville Elementary School District.

Plans by Samuel Arnold, 3499 San Pablo Ave., Oakland.

Following is a complete list of bids:
 Villadsen Bros., 417 Market St., San Francisco, \$16,375
 J. E. Branagh, Oakland, 17,342
 Wm. C. Keating, Oakland, 17,444
 Geo. Maurer, Oakland, 17,471
 Niles W. Place, Oakland, 17,490
 C. D. Vezey & Son, Oakland, 18,400
 Sullivan & Sullivan, Oakland, 18,433
 Geo. Swannstrom, Oakland, 18,462
 Gaubert Bros., Oakland, 18,529
 N. H. Sjoberg & Son, S. F., 18,774
 Vogt & Davidson, San Francisco 18,830
 T. D. Courtright, Oakland, 18,850
 Jacobs & Pattiani, Oakland, 19,470
 Emil Person, Oakland, 18,761
 A. Holycomb, Hayward, 19,798
 E. T. Leitter & Son, Oakland, 19,837
 S. O. McDonald, Berkeley, 19,988
 Conrad Roth, Oakland, 20,050
 J. J. Groden & Co., Alameda, 20,600
 Bids held under advisement.

Plans Being Figured—Bids Close June 18th.

SHPA BLDG. Cost, \$13,000
SANTA ROSA, Sonoma Co., Cal.
 Brick addition for high school shop (116-64-ft.; housing auto mechanics department and general repair shop).
Owner—Santa Rosa High School Dist.
Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.
 Plans obtainable from architect.

Plans Being Figured—Bids Close June 12, 8 P. M.

ADDITION Cost, \$—
BRENTWOOD, Contra Costa Co., Cal.
 Three-classroom addition to present grammar school.
Owner—Brentwood-Deer Valley School District, C. M. Shoemaker, clerk, Brentwood.

Architect—Not Given.
 Certified check 10% payable to the Board of Trustees of the Brentwood-Deer Valley School District required with bid. Plans obtainable from clerk on deposit of \$25.

LIVERMORE, Ala. Co., Calif.—Redemptorist Fathers 8416 Foothill Blvd. Oakland have purchased a one hundred acre tract in Livermore, and plan to construct a group of educational buildings on the Buckley Estate. More definite information will be given at a late date.

Contracts Awarded.

SCHOOL Cost, \$—
CARMEL, Monterey Co., Cal.
 One-story frame and stucco grammar school.
Owner—Sunset School District
Architect—Swartz & Ryland, Spazier Bldg., Monterey.
Carpentry and Excavating—M. J. Murphy, Carmel, at \$7409 and \$756 respectively.
Structural Steel—Minneapolis Steel & Sharon Bldg., San Francisco, at \$348.
Steel Joists—Truscon Steel Co., Call Bldg., San Francisco, at \$1389

YOUNTVILLE, Napa Co., Cal.—Until June 30, 2 p. m. bids will be received by Division of Architecture of the State Department of Public Works who has rejected bids for excavation work in connection with new Veterans Hospital site at Yountville. Following bids were received on preliminary bid opening:
 Chas. F. Chittenden, \$16,650 \$30
 J. F. Knappp, 16,650 \$15
 W. K. McMillan, 16,975 \$150
 J. V. Galbraith, 17,200 \$15
 Harold Smith, 17,500 \$1250
 Grand, Farrar and Carlin, 18,000 \$2009
 Contables Const. Co., 19,000 \$3090
 D. McDonald, 20,115 \$450
 Willard & Blasotti, 22,363 \$350

Preparing Working Drawings.
ORFHANAGE Cost, \$250,000
SACRAMENTO, Sacramento Co., Cal.
 Franklin Boulevard.

Two-story and basement reinforced concrete orphanage (parochial school, dormitory, etc.)
Owner—St. Patrick's Orphanage, Grass Valley.
Architect—Harry J. Devine, California State Life Bldg., Sacramento.
 Bids will be taken in about thirty days.

Plans Being Prepared.

GYMNASIUM Cost, \$20,000
CHICO, Butte Co., Cal.
 One-story brick gymnasium.
Owner—Chico Union High School District.
Architect—Cole & Broughard, 1st National Bank Bldg., Chico.
 Plans will be ready for bids in about three weeks.

Preparing Working Drawings.

LIBRARY Cost, \$117,000
CHICO, Butte Co., Cal. State Teachers' College.
 One- and two-story library and classroom building (20,000 sq. ft.)
Owner—State of California.
Architect—Chester Cole, 1st National Bank Bldg., Chico.
 Brick construction, concrete floors, concrete pile foundation, terra cotta, tile roof.
 Plan will be ready for bids in about thirty days.

SAN FRANCISCO.—Board of Education announces three major school units will be financed by its 1931-1932 budget, these being:

Bernal Junior High School, Highland Ave. and Holly Park Circle; estimated cost, \$520,000. This structure will replace the old Bernal School.
 Health School, 25th and Florida Sts.; estimated cost, \$60,000, to eliminate the old Buena Vista School for Crippled Children.
 Longfellow School Addition; estimated cost, \$120,000, permitting abandonment of seven bungalows.

Revised Plans Awaiting Approval.

SCHOOL Cost, \$135,000
SAN FRANCISCO, Connecticut Street bet. 19th and 20th Sts. (Matt I. Sullivan Elementary School).
 Three-story reinforced concrete school.
Owner—City and County of San Francisco, S. J. Hester, sec'y, Board of Public Works.
Architect—G. A. Applegarth, C1a u Sprinkles Bldg.

This structure will contain 11 standard classrooms, 1 kindergarten, 1 assembly hall and lunch room with kitchen, teachers' office, clinic and waiting room, storage rooms, two lavatories, etc.

Bonds Voted Preparing Working Drawings.

ALTERATIONS Cost, \$4500
MANTECA, San Joaquin Co., Cal.
 Three miles south of Manteca.

Alterations and additions to school (add one room, etc.)
 Owner—Veritas Grammar School Dist.
 Architect—Ralph Morrell, Union Bldg., Stockton.

Bids Opened.
ADDITION Cost, \$—
 SAN FRANCISCO, Scott and O'Farrell Streets

Two-story and basement brick and steel frame Girls' High School Addition (terra cotta front).

Owner—City and County of San Francisco, S. J. Hester, Sec'y., Board of Public Works.

Architect—F. H. Meyer, 525 Market St.
General Contract

Mahony Bros.	.....	\$191,600
Mission Concrete Co.	.....	207,704
F. C. Amoroso & Sons.	.....	212,940
Vogt & Davidson	.....	215,800
MacDonald & Kahn	.....	216,849
N. H. Sjoberg & Sons.	.....	218,925
Monson Brothers.	.....	219,800
Frank J. Reilly	.....	223,865
J. P. Reilly and J. Grace	.....	223,900
Anderson & Ringrose	.....	227,000
J. L. McLaughlin & Co.	.....	228,420
Wm. Spiveck	.....	239,972

Electrical Work

Lynn & Droit	.....	\$15,499
Crown Electric Co.	.....	15,689
Alta Electric Co.	.....	15,750
Ed. F. Dowd	.....	16,600
H. S. Tuttle Co.	.....	16,600
L. Flatland	.....	16,639
Central Electric Co.	.....	16,900
Decker Electric Co.	.....	20,875

Mechanical Equipment

Thos. C. Douglas	.....	\$16,300
Scott Company	.....	18,127
J. H. Pinkerton Co.	.....	18,496
Jas. A. Nelson	.....	18,540
O'Mara & Stewart	.....	18,900
Knittle Bros.	.....	20,230
H. Lawson	.....	20,400
Higgins & Kraus	.....	23,345

Plumbing and Gas Fitting Work

Turner Company	.....	\$14,970
J. H. Pinkerton Co.	.....	15,367
Scott Company	.....	15,837
A. Coleman	.....	15,919
O. Aaron	.....	16,636
Thos. Skelly	.....	18,100
H. Lawson & Co.	.....	18,400

BANKS, STORES & OFFICES

Bids Opened—Held Under Adjudgment
STORE Cost, \$6000
 CHICO, Butte Co., Cal. Third Street bet. Main and Broadway
 One-story reinforced concrete store.
 Owner—J. H. Morrison.
 Architect—Cole & Brouhard, 1st National Bank Bldg., Chico.

Completed Plans.
STORE Cost, \$100,000
 LOS ANGELES, Cal. Hollywood Blvd. and Wilcox Ave.
 Two-story and basement Class C reinforced concrete store (100x125 feet).

Owner—Bank of America.
 Architect—H. A. Minton, Bank of America Bldg., San Francisco.
 Terra cotta facing, composition roofing, structural steel, plate glass, cement and wood floors, steel sash, gas radiators.
 Bids will be taken within a few days

Contract Awarded.
REMODEL STORE Cost, \$12,000
 SAN JOSE, Santa Clara Co., Cal. S-F Street St.

Remodel store (new store fronts, etc.)
 Owner—Hale Realty Co.
 Architect—Binder & Curtis, 35 W-San Carlos St., San Jose.
 Contractor—Henry Bridges, 1398 Lincoln St., San Jose.

CLOVIS, Fresno Co., Cal.—Until June 10, 1 P. M., bids will be received by L. E. Weldon, clerk, Clovis Elementary School District, for new roof

for school at Pollasky and Second streets. Bids will be considered for wood shingle, composition shingle and corrugated roofing construction. Certified check 10% payable to Board of Trustees of district required with bid. Specifications obtainable from clerk.

Grading & Concrete Contract Awarded
STORES Cost, \$—
 BURLINGAME, San Mateo Co., Cal. Broadway.

One- and two-story reinforced concrete store bldg. (2 stores and 1 apartment).

Owner—Martin Stelling and E. L. Gould, 155 Montgomery St., San Francisco.

Architect—Bertz, Winter and Maury, 210 Post St., San Francisco.
 Contractor—G. P. W. Jensen, 520 Market St., San Francisco.

Grading and Concrete—Louie Sartorio, 1817 Filbert St., San Francisco.

Contracts Awarded.
STORE Cost, \$25,000
 OAKLAND, Alameda Co., Cal. Broadway.

One-story and basement Class C steel frame, concrete and hollow tile department store

Owner—Isadore Weinstein, 1041 Market St., San Francisco.

Architect—Wm. Knowles, 1214 Webster St., Oakland.

Contractor—Jacks & Irvine, 714 New Montgomery St., San Francisco.

Glass—Cobbledick-Klibbe Glass Co., 666 Howard St., San Francisco.

Marble—Joseph Maston Sons—Keenan Co., 535 North Point St., San Francisco.

As previously reported, wood roof trusses awarded to Summerbell Tuss Co., 354 Hobart St., Oakland; reinforcing steel to W. S. Wettenhall Co., 17th and Wisconsin Sts., San Francisco; lumber to Sunset Lumber Co., 400 High St., Oakland; structural steel to Judson-Pacific Co., 609 Mission St., San Francisco; metal sash to Truscon Steel Co., Call Bldg., S. F.

Preparing Plans.
OFFICE BLDG. Cost, \$—
 LOS ANGELES, Cal. First St. and Broadway.

Thirteen-story steel frame office building (6 stores and garage).

Owner—Legal Tower, Ltd., M. Lombardi, President, Union Bank Bldg., Los Angeles.

Architect—Alec Curlett, 1012 Union Bank Bldg., Los Angeles.
 Work expected to start within 90 days.

Contract Awarded—Sub-bids Wanted.
REMODELING Cost, \$10,000
 SAN FRANCISCO, 1663 Mission St.

Alterations and painting to 3-story loft building.

Owner—D. Spector, 1663-Mission St. Private plans.
 Contractor—Young & Horstmeyer, 461 Market Street.

Sub-bids wanted on linoleum and painting.

Plans Completed.
STORE Cost, \$150,000
 SAN MATEO, San Mateo Co., Calif. Third Ave. east of El Camino Real.

One-story and basement frame and department store (English design).

Owner—Levy Bros., San Mateo.
 Architect—Hyman & Appleton, 68 Post St., San Francisco.

Plans will be figured by selected list of contractors about June 20.

Plumbing Contract Awarded.
STORE Cost, \$250,000
 SACRAMENTO, Sacramento Co., Cal. Two-story reinforced concrete and steel frame store.

Owner—S. H. Kress Co., Western Pacific Bldg., Los Angeles.

Architect—John Fleming, 1311 South Broadway, Los Angeles.

Contractor—Lindgren and Swinerton, Inc., California State Life Bldg., Sacramento.

Plumbing—Carpenter & Mendenhall, 907 Front St., Sacramento.

As previously reported, marble work awarded to Vermont Marble Co., 244 Brannan St., San Francisco; excavation to J. R. Reeves, 12th and American River, Sacramento; piles to Raymond Concrete Pile Co., Hunter-Dulin Bldg., San Francisco; structural steel to Minneapolis Steel Co., Sharon Bldg., San Francisco; reinforcing steel to Thomas Scollin, 2919 T St., Sacramento.

THEATRES

Plans Being Figured.
THEATRE Cost, \$125,000
 SAN JOSE, Santa Clara Co., Cal. NE First and San Salvador Sts.

Two-story class A reinforced concrete theatre and store building.

Owner—Mrs. Norman M. Parrott and Morey B. Fleming.
 Lessee—United Artists Corp., 1966 S Vermont St., Los Angeles.

Architect—Walker & Eisen and C. A. Balch, 1031 S Broadway, Los Angeles.

Monolithic concrete exterior finish, steel studs, metal lath and plaster interior partitions, concrete and composition roofing, concrete floors, hot air heating system, gas furnace. Bids are being received by the architects who have opened new offices in San Francisco in the Finance Building, 580 Market Street.

Preparing Plans.
ALTERATIONS Cost, \$20,000
 BERKELEY, Alameda Co., Cal. No. 3322 Adeline St.

Remodeling reinforced concrete theatre.

Owner—Kalski-Harband Theatre Co., 3322 Adeline St., Berkeley.

Architect—A. A. Cantin 544 Market St., San Francisco.
 Plans will be ready for bids in about one week.

Plans Completed.
THEATRE Cost, \$—
 BEVERLY HILLS, Los Angeles Co. Class A reinforced concrete theatre (to seat 2000).

Owner—Eros Bros.
 Architect—Walker & Eisen and C. A. Balch, Western Pacific Bldg., Los Angeles.

WHARVES AND DOCKS

Contract Awarded.
PIER, ETC. Cost, \$10,000
 MONTEREY, Monterey Co., Cal. Outer end of west dock of Fishermen's Wharf

80-ft. pier extension and service station.

Owner—Union Oil Co. of California. Plans by Eng. Dept. of Owner.

Contractor—Ben C. Gerwick, 112 Market St., San Francisco.
 Materials in connection with this project are being purchased.

SAN DIEGO, Calif.—Plans for the proposed new Broadway pier have filed with the city council. The new project will be a steel type structure costing about \$175,000. The structure will contain terminal facilities for passengers, customs offices, observation rooms, etc. Jos. Brennan is Post Director of San Diego.

SACRAMENTO, Cal.—Until June 11, 3 P. M., under Order No. 3374-Sac. 102, bids will be received by U. S. Engineer Office, California Fruit Bldg., to furnish and deliver 16,300 lin. ft. piling. Specifications obtainable from above office.

MISCELLANEOUS CONSTRUCTION

SAN FRANCISCO.—Following bids received by Leonard S. Leavy, city purchasing agent, under Proposal No. 726, to furnish sprinkler systems for the (1) Ocean View Playground; (2) Potrero Hill Playground; and (3) St. Mary's Playground:

(A) Skinner Irrigation Co.	(B)	(C)
(1) Pacific Irrigation & Sprinkler Co.	(1)	\$124.50
(2) Tux-Holbrook Co.	(2)	792.70
(3) Potrero of California, Inc.	(3)	1087.00
(E) Atlas Lawn Sprinkler Co.	(D)	(E)
(1)	(1)	\$290.00
(2)	(2)	2150.00
(3)	(3)	2900.00

SAN FRANCISCO.—According to word from San Diego, James W. Crofton, president of the Agua Caliente Jockey Club, Agua Caliente, Mexico, announces he has commissioned Wayne McAllister, architect who designed the Agua Caliente Hotel project, to prepare plans for a \$2,000,000 race track similar to the one at Agua Caliente. The new track will be located near San Francisco.

This project, however, is independent of that proposed by Gene Normile of the Fair Oaks Racing and Polo Club, which plans a track in the vicinity of Five Points in Redwood City, San Mateo County, plans for which are being prepared by Willis Polk and Co., 277 Pine Street, San Francisco, reported in these columns on May 23.

SACRAMENTO, Cal.—D. Varasio, 4041 U St., Sacramento, at \$1073.25 awarded contract by county supervisors to install lawn sprinkler systems at county hospital grounds.

Taking Bids.

REMODELING Cost, \$50,000.
PALO ALTO, Santa Clara Co., Calif.
Stanford Campus.

Remodeling Stanford stadium (replace wooden stairs with concrete; additional toilet facilities).
Owner—Stanford University, Palo Alto
Engineer—Shirley Baker, 58 Sutter St.
San Francisco.

Bids are being taken by Mr. Ormsby, Stanford University, (Telephone: Palo Alto 22441).

Sub-Contracts Awarded.

COLLEGE BLDG. Cont. price, \$21,160
SAN FRANCISCO. W. Parren Ave. N.
Eddy Street.

Three-story frame and brick veneer college building.

Owner—California College of Chiropractic, 1770 Eddy St.
Architect—Coffey & Rist, Phelan Bldg.
Contractor—J. Harold Johnson, Hearst Bldg.

Sheet Metal—Morrison & Co., 74 Duane Ave.

Plastering—Marconi Plastering Co., 1737 Beach St.

Steel Sash—S. U. Steel Co., Rialto Bldg.

Glass—W. P. Fuller Co., 201 Mission Street.

Ornamental Iron—Patterson & Koster, 430 Tenth St.

Millwork—Anderson Bros. Planing Mill
Quint and Custer Sts.

Plumbing—F. W. Snook Co., 596 Clay Street.

Electric Wiring—Dowd - Seid Electric Co., 2118 Mission St.

Roofing—Fibrestone & Roofing Co., 51 Ringold St.

Painting—Raphael Co., 270 Tehama St.

ALAMEDA, Alameda Co., Calif.—Healey-Moore Co., 344 High St., Oak-

land, at \$744 awarded contract by the City Council for resurfacing south tennis court at Lincoln Park.

Sub-Contracts Awarded.

'PHONE STATION Cost, \$15,000
POINT REYES, Marin Co., Cal.

Reinforced concrete trans-Pacific telephone receiving station.

Owner—Trans-Pacific Communication Company.

Plans by Engineering Dept. of Owner.
Contractor—Macdonald & Kahn, Financial Center Bldg., San Francisco.

Lumber, Millwork and Roofing—Henry Hess Co., 229 3rd St., San Rafael.

Painting—Aristo Painting Co., 473 Bryant St., San Francisco.

Hardware—E. M. Hundley, 662 Mission St., San Francisco.

Sheet Metal—Fire Protection Products Co., 1191 16th St., San Francisco.

SAN FRANCISCO.—Until June 17, 12 noon, bids will be received by W. W. Felt Jr., secretary, Golden Gate Bridge and Highway District, 722 Financial Center Bldg., to furnish Portland cement to be used in the construction of the Golden Gate Bridge; such bids to be opened at 2 P. M. on the same day by the directors of the district in the Chambers of the Board of Supervisors, City Hall. Specifications obtainable from the office of the Chief Engineer of the district, 700 Financial Center Bldg.

Preparing Plans.

MORTUARY Cost, \$25,000
OAKLAND, Alameda Co., Cal. Telegraph and 30th Avenues.

Two-story mortuary building.
Owner—Oakland Undertaking Co., 3007 Telegraph Ave., Oakland.

Architect—Raymond De Sanno, 2584 Milvia St., Berkeley.

SACRAMENTO, Cal.—City Manager Jas. S. Dean and his golf committee has approved plans to finance a municipal 18-hole golf course for Sacramento at a cost of \$100,000. Plans worked out by City Manager Dean and the committee, composed of Tom Monk, chairman; John H. Miller and Tom P. Scollan, call for appointment of a "holding" corporation of seven or nine Sacramento men, who will operate on the golf course in the same manner the stadium committee worked. Construction will probably start in 30 days and the course ready for play in about a year.

Contract Awarded.

AUTO CAMP Cost, \$71,000
RENO, Nevada. Entrance to Reno on Carson-Reno Highway.

Bungalow auto camp.
Owner—Withheld.

Plans by Elmer E. Feig, Guaranty Trust Bldg., Portland, Ore.

Contractor—S. E. Henderson, 650 Flanders St., Portland, Ore.

The camp will be in three units, forming a single group of 71 individual dwellings. Two of the units will be U-shaped and the third triangular in design.

REDWOOD CITY, San Mateo Co., Calif.—Butte Electric & Mfg. Co., 956 Folsom Street, at \$1,420 awarded contract by City Council to furnish and install traffic signal and control system at intersection of El Camino Road and Main St., Woodside Road and Redwood Ave., commonly known as "Five Points." City Improvement Co., Berkeley at \$1,498 only other bidder.

SAN FRANCISCO.—Until June 8, 2:30 p. m. bids will be received by Veda B. Young, secretary, Playground Commission, 376 City Hall, for fencing and back stops at Aptos Playground at Aptos and Ocean ave-

nues for fencing and back stops at the Ocean View Playground Montana and Playground streets. Certified check 10% payable to secretary required with bid. Specifications obtainable from the secretary's office.

SAN FRANCISCO.—Until June 15, 2 P. M., under Proposal No. 729, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish ready mixed concrete required during the fiscal year 1931-32. Specifications obtainable from above.

Completing Plans.

RECREATION BLDG. Cost, \$14,000
BERKELEY, Alameda Co., Cal. Kinney Park.

One-story and basement frame and stucco recreation bldg. (116 roof).

Owner—City of Berkeley.
Architect—James V. Flachek, Mercantile Bank Bldg., Berkeley.

Expect plans to be ready for bids in about one week.

MISCELLANEOUS SUPPLIES AND MATERIALS

OAKLAND, Cal.—June 11, 12 noon, bids will be received by W. W. Chappell, acting city clerk, to furnish and deliver during the fiscal year ending June 30, 1932, the following materials and equipment: Asphalt, emulsified; automobile tires and tubes; batteries, boms, brick, street brooms; castings, cement, chairs, coal, compression tests (concrete cylinders); concrete, mixed and dry; corrugated iron culverts, corrugated iron pipe; fire hose (for sewers); fuel oil; distillate and gasoline; incandescent lamps; kerosene; lubricating oils, lumber, lamp, lacquer, quarry waste, re-use containers, repair (permanent pavements); sewer pipe, shovels, signs, stone, stone chips, screenings, steam, steel gratings (catchbasins). Specifications and further information obtainable from city clerk.

BERKELEY, Alameda Co., Calif.—Four bids, all identical, were submitted to the city council to furnish cement to the city for the fiscal year commencing July 1. The bid was \$2.64 per barrel, with 1% allowance on sacks. Bidders were:

Jas. A. Davis Co., 517 Fairmont, Berkeley.

Pacific Coast Aggregates, Inc., Broadway and Water Sts., Oakland.

Contra Costa Building Materials Co., 808 Gilman St., Berkeley.

Henry Cowell Lime & Cement Co., 81 Franklin St., Oakland.

OAKLAND, Cal.—Until June 8, 4:30 p. m. bids will be received by G. B. Hegardt, secretary, City Port Commission, 424 Oakland Bank Bldg., for blue printing service for the fiscal year 1931-32. Specifications obtainable from secretary.

BERKELEY, Alameda Co., Calif.—City Manager Hollis R. Thompson announces funds will be provided in the 1931-32 budget to finance purchase of two modern motor concrete paving machines for the assessor's office and adding machines and dating equipment for the office of the auditor.

◆
Data book No. 2 of the Trucon Steel Co., Youngstown, Ohio, entitled "Modern Road Construction," devotes 123 pages to motor concrete paving practice, with specific reference to products of the company used in this type of work. These include welded steel fabric, dowel plates, road forms, expanded metal, curb bars, guard posts, highway crossings and leveling accessories. The book is priced at \$1 per copy and contains many illustrations.

Engineering News Section

BRIDGES

SAN FRANCISCO—Until June 17, 12 noon, bids will be received by W. W. Felt Jr., secretary, Golden Gate Bridge and Highway District, 722 Financial Center Bldg., to furnish Portland cement to be used in the construction of the Golden Gate Bridge; such bids to be opened at 2 P. M. on the same day by the directors of the district in the Chambers of the Board of Supervisors, City Hall. Specifications obtainable from the office of the Chief Engineer of the district, 700 Financial Center Bldg.

MONTEREY COUNTY, Cal.—Until June 24, 2 P. M., bids will be received by State Highway Commission to construct a reinforced concrete bridge across Granite Creek about 14 miles south of Monterey, consisting of one 127-ft. open spandrel arch span, two girder spans, each approximately 44 ft. long and two girder spans, each approximately 36 ft. long.

RIVERSIDE COUNTY, Cal.—Until June 24, 2 P. M., bids will be received by State Highway Commission to widen that existing multiple span arch bridge across the Santa Ana River near Riverside, by constructing alongside the existing bridge a multiple span reinforced concrete arch bridge consisting of two 95 ft. spans, two 102 ft. spans and one 106 ft. span on concrete piers and abutments with pile foundations.

SACRAMENTO, Cal.—Lindgren & Swinerton, Inc., California State Life Bldg., Sacramento, and Standard Oil Bldg., San Francisco at \$59,000 awarded contract by city council to construct the H Street subway, the city of Sacramento and the Southern Pacific Railroad to each share one-half cost. Project involves: 179 30-ft. untreated wooden piles; 7250 cu. yds. excavation; 700 cu. yds. backfill; 9000 cu. yds. low levee fill; 35,000 lbs. reinf. steel and mesh; 950 cu. yds. class A and 580 cu. yds. class B concrete; 66.25 tons 33-in. steel girder beams; 6 tons structural steel flood gates; 16,800 sq. ft. concrete pavement; 3960 sq. ft. 3- and 4-in. sidewalk; 300 lin. ft. 2-in., 2-rail pipe railing.

SAN BERNARDINO, Cal.—Until 11 A. M., June 15, bids will be received by county supervisors to construct steel bridge at Redlands Junction at Barton Ave. and San Timoteo Creek. The estimated cost is \$18,000. The bridge will be a steel span of 109 ft. with a 27-ft. roadway and three traffic lanes. The structure will have 3-ft. pedestrian lanes on each side. The floor will be of steel I-beam type construction. Plans obtainable from the county surveyor, Howard L. Way, on deposit of \$5. Certified check, 5%.

SAN BERNARDINO, Calif.—Until June 15, bids will be received by the county supervisors to construct steel bridge at Redlands Junction at Barton Ave. and San Timoteo Creek. Est. cost, \$18,000. The bridge will be a steel span of 109 ft. with a 27-ft. roadway and three traffic lanes. The structure will have 3-ft. pedestrian lanes on each side. The floor will be of steel I-beam type construction.

Howard Way, county surveyor.

SACRAMENTO, Cal.—E. R. Jamieson, Box 853, Sacramento, at \$2,825 submitted lowest bid to county clerk, to construct the Stoll Bridge, northwest of Rio Linda.

Following is a complete list of bids:

E. R. Jamieson, Sacramento.....	\$2,854
R. E. McKenzie, Gerber.....	2,829
Holdener Const. Co., Sacto.....	2,834
J. T. Hunt and C. A. Foley.....	2,829
M. A. Jenkins, Sacramento.....	2,879
John Dauger, Sacramento.....	2,882
C. F. Downar, Sacramento.....	2,925
P. J. Bean.....	3,035
Geo. D. Hindmit, Sacramento.....	3,125
R. F. Bender, Sacramento.....	3,146
McGillivray Const. Co., Sacto.....	4,467

Bids held under advisement until June 8th.

SACRAMENTO, Cal.—Authorization to the Western Pacific Railway to seek permission from the state reclamation board and the U. S. war department to build the Sutter slough lridge in Yolo county on basis of Sacramento county participation has been granted by the Sacramento County Supervisors. Similar action is expected of the Yolo County Supervisors. The proposed bridge will be a combined rail and vehicular traffic structure.

LONG BEACH, Cal.—San Francisco Bridge Co., 14 Montgomery St., San Francisco, and 111 W 7th St., San Pedro submitted the low bid to Long Beach Harbor Commission at \$124,608.50 for dredging and filling in the Outer Harbor, under Spec. No. H. D. 55, involving:

- (1) 415,000 cu. yds. dredging.
 - (2) 130 lin. ft. cressooted bulkhead or curtain wall.
 - (3) 1750 tons chinking and sealing rock.
- | | | | |
|------------------------------|--------|--------|-------|
| (A) San Francisco Bridge Co. | (1) | (2) | Total |
| (B) Standard Dredging Co. | (1) | (2) | |
| (A) | \$ 285 | \$ 235 | \$ 40 |
| (B) | 2555 | 3 00 | 4 00 |
- \$124,608.50
\$131,367.50

SAN FRANCISCO.—Until June 17, 11 a. m., under Specification No. 6542, bids will be received by Public Works Officer, Twelfth Naval District, 100 Harrison st., for improvement to water front at the Receiving Ship Station, Yerba Buena Island, San Francisco Bay, involving repairs to the sea wall. Specifications obtainable from above office on deposit of \$10, returnable, checks for same to be made payable to the Chief of Bureau of Yards and Docks.

APACHE COUNTY, Ariz.—W. E. Callahan Construction Co., Dallas, Texas, submitted low bid, at \$137,168 for alternate number one and \$136,183 for alternate number two to C. H. Sweester, district engineer, U. S. Bureau of Public Roads, Phoenix, Ariz., to construct the Rio Fueroo and Dry Creek bridges on Petrified Forest National Monument Highway, Route No. 1, Apache County. Quantities of materials listed in issue of May 18.

Following are the three low bidders:

W. E. Callahan, All.....	All	Two
McCure & Denison 141,859	146,664	
Gist & Bell	156,239	156,255

All bids held under advisement, but it has been recommended that the

contract be awarded to W. E. Callahan Construction Co., on the 2nd alternate.

SAN FRANCISCO—New bids will be requested by the Board of Public Works to construct the Third street bridge over the Channel. This was assured yesterday afternoon at a meeting in the city hall, attended by members of the Board of Public Works, the City Attorney's Office, the State Board of Harbor Commissioners and W. B. Strauss, inventor of the Strauss type bascule bridge upon which type the contract was awarded to Barrett and Hill. The contractors it is understood, stand ready to relinquish their contract thereby permitting a new call for bids to be issued at once.

RIVERSIDE COUNTY, Calif.—As previously reported, bids will be received June 24, 2 P. M., by State Highway Commission to widen the existing multiple span arch bridge across the Santa Ana River near Riverside, by constructing alongside the existing lridge a multiple span reinforced concrete arch bridge consisting of two 95-ft. spans, two 102-ft. spans and one 106-ft. span on concrete piers and abutments with pile foundations. The project involves:

- (1) 4200 cu. yds. struc. excav.
- (2) 10,450 lin. ft. furnishing untreated Douglas fir piles, including test piles;
- (3) 425 lin. ft. furnishing cressooted Douglas fir piles;
- (4) 435 each driving untreated and cressooted Douglas fir piles including test piles;
- (5) 765 cu. yds. class A Portland cement conc., placed by tremie;
- (6) 2040 cu. yds. class A Portland cement concrete (structure);
- (7) 190 cu. yds. class B Portland cement concrete;
- (8) 90 cu. yds. class E do;
- (9) 520,200 lbs. reinforcing steel;
- (10) 1110 lin. ft. existing railing to be removed;
- (11) 650 lin. ft. temporary timber railing;
- (12) 1 lot, existing pylons, end posts and lamp posts to be removed and reset;
- (13) 1330 cu. yds. arch fill;
- (14) 1370 lin. ft. pre-cast railing;
- (15) 475 tons of concrete (base, leveling and type A surface course);
- (16) 1 lot miscellaneous items of work.

SACRAMENTO, Cal.—Capitol Lumber & Wrecking Co., Sacramento, at \$500 awarded contract by county supervisors to wreck the old Natomas Trestle which has been abandoned because of the new American River Bridge.

WOODLAND, Yolo Co., Cal.—Yolo County supervisors will seek authorization of the U. S. War Department to construct two bridges over sloughs at Merritt Island.

PLACERVILLE, El Dorado Co., Cal.—Hector Williamson, Placerville, at \$1,890 awarded contract by the county supervisors to construct reinf. concrete girder bridge for the South Approach of the Coloma Bridge on the South Fork of the American River. A. B. Hanser, Stockton, at \$2,431 only other bidder.

MONTEREY COUNTY, Calif.—As previously reported, bids will be received June 24, 2 P. M., by State Highway Commission to construct a reinforced concrete bridge across Granite Creek about 14 miles south of Monterey, consisting of one 127-foot open spandrel arch span, two girder spans, each approximately 44 ft. long and two girder spans, each approximately 36-ft. long. Project involves:

- (1) 750 cu. yds. rdwy. excav. without classification (detour);
- (2) 760 cu. yds. struc. excav.;
- (3) 860 cu. yds. class A Portland cement concrete;
- (4) 22 cu. yds. class E do;
- (5) 168 cu. yds. class F do;
- (6) 145,000 lbs. reinforcing steel;
- (7) 900 lbs. bronze expansion plates;
- (8) 1 lot miscellaneous items of work.

SAN LUIS OBISPO COUNTY, Cal.—L. C. Clark and C. E. Doughty, Visalia, at \$20,116 submitted low bid June 3 to State Highway Commission to construct a reinforced concrete girder bridge over San Marcos Creek about 7 miles north of Paso Robles, consisting of four 40-ft. spans on concrete bents and grading and paving approaches with Portland cement concrete. Following is a complete list of bids:

L. C. Clark and C. E. Doughty, Visalia	\$20,116
Bodenhamer Const. Co., Oakland	20,693
Oberg Bros., Los Angeles	21,514
Neves & Harp, Santa Clara	21,608
Lord & Bishop, Sacramento	21,953
Hanrahan Co., San Francisco	21,958
Robinson-Roberts Co., L. A.	22,740

DREDGING, HARBOR WORKS & EXCAVATIONS

NEWPORT BEACH, Orange Co., Cal.—Until 7:30 P. M., June 8, bids will be received by city council for dredging and widening Channel north of U. S. Bulkhead line between U. S. Stations No. 116 and No. 117 in Newport Bay, involving 27,000 cu. yds. in accordance with specifications obtainable from city engineer, R. L. Peterson. Certified check, 10%. Alfred Smith, city clerk.

RICHMOND, Contra Costa Co., Cal.—Until June 8, 8 P. M., bids will be received by A. C. Fahn, city clerk, for dredging the Ford Channel in the Richmond Inner Harbor for a width of 200-ft. and a minimum depth of 30-ft. City has \$20,000 available for this work. Bids will be taken on two propositions, one to dredge to a distance of 1,100-ft. and the other to a distance of 1,700-ft. Certified check 10% payable to city required with bid. Specifications obtainable from Edw. A. Hoffman, city engineer, on deposit of \$5, returnable.

MACHINERY AND EQUIPMENT

SEATTLE, Wash.—Lakeside Bridge and Steel Co., Milwaukee, at \$4,750 awarded contract by Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish and install 5-ton electric traveling crane at Naval Air Station, Seattle.

SAN FRANCISCO—Wallace Young, 312 Arnoxx Hotel representing an Oregon contracting firm, is in the market for tunnel equipment usable in a 10-ft. diameter, 20,000-ft. tunnel. If interested communicate with him direct.

OAKLAND, Cal.—Until June 8, 4:30 p. m. bids will be received by G. B. Hegard, secretary, City Port Commission, 424 Oakland Bank Bldg., for tug hire for the fiscal year 1931-32.

Specifications obtainable from above office.

PLACERVILLE, El Dorado Co., Cal.—Until June 16, 7 P. M., bids will be received by Dr. W. A. Kantz, secretary, El Dorado County High School District, to furnish and deliver one 60-passenger school bus chassis and one 60-passenger school bus body. Bids may be submitted on either or both items separately. Certified check 10% required with bid. Specifications and further information obtainable from secretary.

BERKELEY, Alameda Co., Calif.—City Manager Hollis R. Thompson announces funds will be provided in the 1931-32 budget to finance purchase of new equipment for the garbage department in addition to a scraper for the sanitary fill.

EQUIPMENT

SANTA CLARA, Santa Clara Co., Cal.—On recommendation of C. C. Cuhni, fire chief, the city council authorized the purchase of 500 ft. of 2½ inch fire hose.

RESERVOIRS AND DAMS

SISKIYOU COUNTY, Cal.—Preliminary to starting work on the Iron Gate Power Dam on the Klamath River in Siskiyou County, construction camps are being established by the California-Oregon Power Co. The project will involve an expenditure of \$5,000,000. Actual construction on the dam will be started in the Fall. Application has been made to the Federal Power Commission to construct the 160-ft. dam. The capacity of the first unit will be 14,000-hp., to be increased by future construction to 40,000-hp.

REDWOOD CITY, San Mateo Co., Cal.—County Surveyor James S. James preparing plans for construction of a dam across Pederson Creek and a hook-up with the water system on the Pederson Ranch to supply the County Memorial Redwood Park. Estimated cost, \$100,000.

PIPE LINES, WELLS, ETC.

TAFT, Kern Co., Calif.—Petroleum Supply Co., of Taft, has been awarded contract by Golden Bear Oil Co. to construct 10.5 mile pipe line at Round Mountain lease on Sec. 9, 28-29, to the leading terminal. The line will be 16-in. pipe. The contract includes storage facilities of 11,000 barrels, pumps and boilers.

WATSONVILLE, Santa Cruz Co., Cal.—Until June 9, 8 P. M., bids will be received by M. M. Swisher, city clerk, for drilling water well on petroleum property at 2nd St. and Van Ness Ave. Specifications on file in office of clerk. H. B. Kitchen, city engineer.

LOS ANGELES, Cal.—Belyea Truck Co., 3128 E. 26th St., Vernon, awarded contract by Southern Fuel Co. for hauling and stringing approximately 163½ miles of 26-in. O. D. steel pipe from a point in the S. P. Ry. right of way ½ miles west of Sylmar to the south terminus of the 22-in. pipe line now installed. The prices are according to items as follows: (1) \$2.80 per ton, (2) \$3.50 per ton, (3) \$2.75 per ton.

SEWERS AND SEWAGE DISPOSAL PLANTS

REDWOOD CITY, San Mateo Co., Cal.—County Surveyor James S. James

preparing plans for sewer system for County Memorial Redwood Park; estimated cost \$200,000.

BOULDER CITY, Nev.—Until 3 P. M., June 30, bids will be received by the U. S. Bureau of Reclamation, Las Vegas, Nevada, for the construction of a sewer system for Boulder City, located about 2½ miles southeast of Las Vegas, Nevada. For approximate quantities of work involved see item under Streets and Highways.

BERKELEY, Alameda Co., Calif.—Until June 9, 10 A. M., bids will be received by Florence E. Turner, city clerk, to construct sewer in Arlington Avenue from Thousand Oaks Blvd. to Sao Antonio Ave. Certified check 10% payable to city required with bid. Plans obtainable from Harry Goodridge, city engineer, on deposit of \$1 returnable.

PHOENIX, Ariz.—Contracts for constructing the new sewage disposal and treatment plant, trunk sewers, and a collection system under the recent \$317,000 bond issue awarded by city commission as follows:

Treatment and Disposal Plant, to Phoenix-Tempe Stone Co., P. O. Box 1645, Phoenix, at a total of \$493,771.40. The plant will include intake works, primary clarifier and drainage sump, channel and by-pass between clarifier and aerator, aerator and sludge return, channel between aerator and secondary clarifier, secondary clarifier and drainage sump, thickener, digester, sludge drying beds, control houses, power house and equipment, gas holder, outfall structure, and miscellaneous items. The plant will have a capacity of 12,000,000 gallons per day.

Trunk Sewers, to Gogo and Rados, 10,024 S. Figueroa St., Los Angeles (PL 872), at \$239,550.68. The award was made on pipe sections as follows: up to and including 21-in. diameter—vitrified clay pipe; 24-in. to 48-in. diameter pipe—centrifugally cast reinforced concrete pipe; 54-in. diameter pipe—circular hand made clay pipe.

Collection System, to Hayner & Burns, Las Cruces, N. M., at \$32,241.62, using vitrified clay pipe exclusive by.

BOULDER CITY, Nev.—Salt Lake Pressed Brick Co., Salt Lake City, awarded contract by U. S. Bureau of Reclamation at Denver for furnishing approximately 58,000 lin. ft. of sewer pipe, involving 29,000 ft. 4-in., 22,000 ft. 6-in., 7,200 ft. 8-in., 1,600 ft. 10-in. and 700 ft. 12-in. for use on the Boulder City project.

REDWOOD CITY, San Mateo Co., Cal.—Plans for a new town site adjoining Menlo Park and Atherton, to be known as Belle Haven, are being promoted by the Echanman Investment Company of San Francisco. Commercial buildings and residences, all to be built in the Mission style of architecture, have been laid out by Guy W. Hayler, engineer, and actual construction is expected to begin within thirty days.

MISCELLANEOUS CONSTRUCTION

SAN FRANCISCO—City Engineer M. M. O'Shaughnessy in a report to the Board of Supervisors recommends construction of a system of subways under downtown streets to relieve traffic congestion.

Under the plan the present surface cars would be operated on a four track subway under Market street, McAllister to Sansome streets, and that a double track subway be start-

ed at Sansome street to form a loop at Battery street.

A double track subway extension is planned for the Market Street Railway from McAllister street west to a point between Franklin and Valencia streets.

Also, a double track branch subway is planned to lead out of Market street into McAllister street, terminating between Leavenworth and Hyde streets.

Another subway, a double track branch running out of Market street into O'Farrell and continuing to a point between Hyde and Larkin streets, also is recommended.

It was urged that legislation be adopted so that the property owners benefited will be required to pay not less than half of the cost of the subway system.

Authority is asked to make preliminary plans and estimates of the cost of cutting new streets through the long blocks south of Market street. An appropriation of \$5000 is asked for this purpose.

O'Shaughnessy asks that authority be granted for the collection of subsurface data for the routes proposed for subways and that \$25,000 a year be appropriated for several years for this purpose.

Financing of the project O'Shaughnessy asserts, could be accomplished by the city appropriating \$1,050,000 a year until \$10,500,000 had been raised.

In the meantime his plan calls for property owners being assessed to raise a similar amount.

According to the city engineer the tax rate would not have to be increased more than 10 1/2 cents each year to provide the \$10,500,000 and the property owners benefited would not have to be taxed more than \$60 a front foot.

WATER WORKS

LOS ANGELES, Cal. Until 11 a. m. June 9, bids will be received by city purchasing agent, Thomas Oughton, for furnishing motor-driven pumps under Specifications No. 479. The items are:

- (1) one horizontal direct motor-driven centrifugal pumping unit complete with motor and starter, capacity 140 G. P. M. net operating speed, 20 ft. supply head minus 6 to plus 4 feet, speed and motor capacity, optional to bidders;
- (2) one horizontal direct motor driven centrifugal pumping unit complete with motor and starter; capacity 2100 G. P. M. net operating speed 20 ft. supply head, minus 6 plus 4 feet speed and motor capacity optional with bidders.
- (3) one horizontal direct motor-driven centrifugal pumping unit complete with motor and starter; capacity 2500 G. P. M. net operating speed 20 ft. supply head minus 6 plus 4 speed and motor capacity optional to bidders;
- (4) one horizontal direct motor-driven centrifugal pumping unit complete with motor and starter; capacity 6000 G. P. M. total operating head 35 ft. supply head minus 10 to plus 3 feet; speed and motor capacity, optional to bidders.

SAN FRANCISCO—Board of Supervisors has authorized the Bureau of Engineering, Department of Public Works, to prepare plans for the Red Mountain Bar siphon in connection with the Hetch Hechy water system, estimated cost \$225,000.

VALLEJO, Solano Co., Cal.—C. H. Brown, Richmond, at \$6263 awarded contract by city council to install 24-inch water main leading from Fleming Hill reservoir to Vallejo. Rensselaer

Valve Co., Troy, N. Y., at \$605.60 awarded contract to furnish valves in connection with the line.

SAN FRANCISCO.—Board of Supervisors will provide appropriation of \$10,000 from the 1931 Public Parks and Squares Bond Fund for the purchase of the necessary clay and water pipe for a sprinkler system for the rehabilitation of the horse track in Golden Gate Park.

EXETER, Tulare Co., Cal.—Chicago Bridge & Iron Works, Rialto Bldg., San Francisco, at \$3,550 awarded contract by city council to furnish 200,000-gallon standpipe in connection with water system.

Martin Murphy, 1321 Milvia Street, Berkeley, at \$4,545 awarded contract to furnish and install cast iron pipe.

Following is a complete list of bids:

Standpipe	
California Steel Prod. Co., Oakland (welded).....	\$3,071
(riveted).....	3,379
North & Cole, Corcoran Bldg., Chicago Bridge & Iron Works, San Francisco	3,200
San Francisco	3,350
Lacy Mfg. Co., Los Angeles.....	3,500
J. E. Pettijohn & Co., Delano.....	3,350
Boiler Tank & Pipe Co., Oakland 4,111	
Pittsburgh-Des Moines Steel Co., Pittsburgh, Pa.....	4,655
Western Pipe & Steel Co., S. F.....	4,335
Paint Standpipe	
Calif. Steel Products Co.....	\$ 987
Thompson Const. Co., Fresno.....	967
Boiler Tank & Pipe Co.....	1,020
Thompson Const. Co., Fresno.....	1,100
Lacy Mfg. Co.....	1,150
Trench and Backfill Pipe	
(4.700 lin. ft. 4- 6- and 8-in. pipe)	
*P. L. Burr, San Francisco.....	\$4,172.40
Martin Murphy, Berkeley.....	4,454.00
Thompson Const. Co., Fresno.....	5,035.50
Stroud Bros. & Seabrook, Bakersfield	5,534.50
E. W. Redman, Fresno.....	6,139.60

*Bid on welded pipe.

LOS ANGELES, Cal.—Until 2 P. M. June 8, bids will be received by county supervisors for diamond drilling of east abutment of the San Dimas dam. E. C. Eaton, chief flood control engineer. The items to be bid are:

- (1) 50 lin. ft. of holes, 175 ft. or less in depth, in any material, casing left in place, and including cost of casing;
- (2) 1450 lin. ft. holes, 175 ft. or less in depth, in any material, casing if used, removed from holes.

CHILKOOT BARRACKS, Alaska—Until June 10, 11 A. M. bids will be received by Constructing Quartermaster, Fort Mason, San Francisco, for equipment for water supply system at Chilkoot Barracks, Alaska, consisting of pipe and fittings, insulation material, intake casing, material for constructing trash strainer crib and water filter. Plans obtainable from above office.

OAKLAND, Cal.—Steel Tank & Pipe Co., 1100 4th St., Berkeley, at \$3,635 submitted low bid to East Bay Municipal Utility District, to furnish and erect two 22,000-gallon steel storage tanks. Complete list of bids, all taken under advisement, follows:

Steel Tank & Pipe Co.....	\$3,635
Berkeley Steel Const. Co.....	4,100
Chicago Bridge & Iron Works.....	4,300
California Steel Products Co.....	4,353

BELMONT, San Mateo Co., Cal.—Belmont Water District will call election in July to vote bonds of \$85,000 to acquire and improve a water system comprising half a dozen companies which have been operating separately in the past. Construction of a new reservoir and installation of additional pumping equipment is contemplated. Geo. A. Kneese, Stafford Bldg.,

Redwood City, is engineer for the district.

LOS ANGELES, Cal.—Until 2 P. M. June 15, bids will be received by the county supervisors for diamond core drilling of the west abutment of the Big Santa Anita dam. E. C. Eaton, chief flood control engineer. The items to be bid on are:

- (1) 50 lin. ft. holes 150 ft. or less in depth in any material, casing left in place, and including cost of casing;
- (2) 950 lin. ft. of holes 150 ft. or less in any material, casing, if used, removed from holes.

BOULDER CITY, Nev.—Contracts for furnishing fittings, valves, pipe, and miscellaneous material for the water and sewer systems at Boulder City were awarded by the U. S. Bureau of Reclamation as follows:

Cast iron bell and spigot fittings, Spec. No. 3145-A, to Los Angeles Valve and Fitting Co., Los Angeles, at \$2965.87.

Fire hydrants, 55 2-nozzle, 2 1/2-in. fire hydrants, Spec. 517-D, to Kennedy Valve Mfg. Co., Elmira, N. Y., at \$2528.75.

Thirty thousand pounds of lead, also lute, Spec. 517-D, to Crane O'Fallon Co., Denver; also cast iron covers for meter boxes, gate valves and street washes.

Corporation stops, Spec. 517-D, to Muller Co., Decatur, Ill., at \$353.39; also 20,000 ft. copper service pipe at \$273.66; also valve yokes at \$282.10. Copper roundway curb stops, Spec. 517-D, to James Jones Co., Los Angeles, at \$581.25.

Copper pipe couplings, Spec. 517-D, to Standard Sanitary Mfg. Co., Los Angeles, at \$54.

Water meters to the Pittsburg Equitable Meter Co., Los Angeles.

BOULDER CITY, Nev.—California Steel Products Co., 452 Bay Street, San Francisco, has been awarded the contract by the U. S. Bureau of Reclamation at \$292 for furnishing and erecting, including painting of a steel surge tank for the Boulder City water project, Spec. 523-D.

PLAYGROUNDS & PARKS

SACRAMENTO, Cal.—Following is a complete list of the bids received by county supervisors to install sprinkling system for lawns at the County Hospital grounds.

- (a) 3000 ft. spray heads; (b) revolving sprinklers.
- Luppen & Hawley, Sacramento (a) \$.....; (b) \$2044.84.
- B. Varasio, Sacramento, (a) \$3056.03; (b) \$1,675.25.
- Ni-Way Lawn Sprinkler Co., San Francisco (a) \$3,170.29 (b) \$1,821.06.
- Carpenter & Mendenhall, Sacramento (a) \$3,379.44 (b) \$1,910.64.
- West Coast Lawn Sprinkler Co., (a) \$5,260.90; (b) \$2,144.60.

Bids held under advisement until June 8th.

STREETS AND HIGHWAYS

OAKLAND, Cal.—City council declares intention to improve Madrone Path and a portion of Masterson street adjacent to Madrone Path, involving grading, cement sidewalks, reinforced concrete pipe conduit, 1911 Act. City will pay 27 1/2% of the cost from General Fund. Hearing June 25, W. V. Whappell, acting city clerk. Walter N. Frickstad, city engineer.

BOULDER CITY, Nev.—Until 10 A. M., June 30, bids will be received at the office of the U. S. Reclamation Bureau, Las Vegas, Nev., for grading, paving, constructing curbs, gutters,

sidewalks, sewer and water system for Boulder City, located about 2 1/2 miles southeast of Las Vegas. The work will involve the following approximate quantities:

- 120,000 cu. yds. excav., common, grading;
- 30,000 cu. yds. excav., rock, grading;
- 20,000 station cu. yds. overhaul;
- 94,000 lin. ft. curbs and gutters;
- 6,000 lin. ft. curbs;
- 46,200 sq. yds. 2-course asph. concrete pavement;
- 43,800 sq. yds. 1-course asph. conc. pavement;
- 128,000 sq. yds. oil treated gravel surf.
- 11,000 sq. yds. hardpan or gravel surf.
- 22,000 sq. yds. parking area surf.;
- 180,000 sq. ft. concrete sidewalk;
- 190,000 sq. ft. gravel sidewalk;
- 52,000 lin. ft. excavating and back-filling water pipe trenches;
- 69,600 lin. ft. excavating and back-filling sewer trenches;
- 56,600 lin. ft. laying 4-in. to 12-in. sewer pipe;
- 165 sewer manholes, constructing;
- 49,600 lin. ft. laying 2-in. to 12-in. C. I. pipe;
- 85 6-in. fire hydrants, setting and connecting;
- 13 1 1/2-in. street barrels, setting and connecting;
- 155 3/4-in. and 1-in. curb stops and meter boxes, setting and connecting;
- 470 3/4-in. and 1-in. curb stops, setting and connecting;
- 10,000 lin. ft. 3/4-in. and 1-in. copper service pipe, laying and connecting;

Materials to be furnished by the government and materials to be furnished by the contractor are described in the specifications, which may be obtained upon application to the U. S. Bureau of Reclamation, Las Vegas, Nev.; Denver, Colo., or Washington, D. C.

MONO COUNTY, Cal.—Pacific Tank Lines, Inc., 2730 S Alameda St., Los Angeles, at \$2.49 per barrel submitted low bid to district engineer, State Highway Commission at Bishop for oiling highway from Deadman's Creek to Leevining and from Leevining to 5 miles over Tioga Pass. Gilmore Oil Co., at \$2.65 per barrel only other bidder.

SAN BERNARDINO COUNTY, Cal.—Griffith Co., Los Angeles Railway Bldg., Los Angeles, at \$99,112 submitted low bid June 3 to State Highway Commission to grade and pave with asphalt concrete, 2.2 miles through Upland. Following is a complete list of the bids:

- Griffith Co., Los Angeles.....\$ 99,112
- Steele Finley, Santa Ana..... 104,180
- Southwest Paving Co., L. A..... 104,801
- G. H. Oswald, L. A..... 112,617
- E. A. Johnson, Los Angeles..... 116,067
- Hall Johnson Co., Alhambra..... 123,064

ALAMEDA, Alameda Co., Cal.—Bids will be asked shortly by city council to furnish 1,000 tons of screenings; 1,500 tons crushed stone; 6 tons of birdseye screenings; 2,000 bbls. road oil (Calo) and 2,000 tons of Bitumulus 95%. Above to be furnished as required by the city during the fiscal year 1931-32.

GILROY, Santa Clara Co., Calif.—City trustees start proceedings to improve approximately twenty blocks of streets in the residential district, including portions of 4th, 7th, Rosanna Sts., etc., involving grading; asphalt concrete pavement, etc. Raymond W. Fisher, city engineer. Quantities of materials involved will be published shortly.

FRESNO, Fresno Co., Calif.—Until July 3, bids will be received by D. M. Barnwell, county clerk, to pave 1 1/2 miles of Mount Whitney Ave. between Riverdale and Lenare. Bids will be considered for either Jensettite or Per-

manite pavements involving approximately 1,800 tons. Estimated cost, \$20,000. Plans obtainable from Chris P. Jensen, county surveyor.

SISKIYOU COUNTY, Calif.—Heafey Moore Co., 344 High St., Oakland, at \$23,702 submitted low bid June 3 to State Highway Commission to apply to existing roadbed bituminous surface treatment on 7 miles between 1.5 miles north of Yreka and the Klamath River. Dunn & Baker, Klamath Falls, Oregon, at \$27,245, only other bidder.

MONO COUNTY, Cal.—Macco Construction Co., Clearwater, at \$235,097 submitted low bid June 3 to the State Highway Commission to grade and surface with bituminous treated crushed gravel or stone, 12.3 miles between Yerby and Casa Diablo Hot Springs. Following bids received:

- Macco Const. Co., Clearwater \$235,097
- Southwest Paving Co., L. A..... 236,948
- Hemstreet & Bell, Marysville..... 237,226
- VanDerHellen & Pierson, Casca..... 238,646
- Healy-Thibbitta Const. Co., San Francisco..... 240,987
- Gibbons & Reed, Burtank..... 243,572
- G. W. Ellis, Los Angeles..... 254,265
- C. A. Bayles, Biggs..... 259,137
- Clark & Henry, S. F..... 274,250
- George Herz & Co., Ltd., San Bernardino..... 283,001
- F. W. Nighbert, Bakersfield..... 283,662

SAN BENITO-SANTA CLARA Cos., Cal.—Granite Const. Co., Watsonville, at \$51,404 submitted low bid June 3 to State Highway Commission to grade and surface with bituminous treated crushed gravel or stone surface, 4.7 miles between 3.2 miles north of Hollister and Pacheco Pass Road. Following is a complete list of the bids:

- Granite Const. Co., Watsonville.....\$51,404
- Valley Paving Co., Fresno..... 56,722
- A. J. Raisch, San Francisco..... 63,791
- Force Const. Co., Piedmont..... 82,610

CALAVERAS COUNTY, Cal.—W. J. Schmidt, 79 Rock Lane, Berkeley, at \$17,065 submitted low bid June 3 to State Highway Commission for surface treatment on 15.5 miles between Murphys and Big Trees. Following is a complete list of the bids:

- W. J. Schmidt, Berkeley.....\$17,065
- Periera & Reeves, Tracy..... 20,450
- Geo. French, Jr., Stockton..... 20,725
- A. Teichert & Son, Sacramento..... 20,795
- J. R. Reeves, Sacramento..... 21,823
- Heafey-Moore Co., Oakland..... 25,516

SACRAMENTO, Calif.—City council declares intention (2307) to improve alley between J and K, 28th and 29th Sts., involving grading; c. l. drains with vit. sewer pipe connection; construct vit. sewers; reconstruct manhole; install 1-in. water main connections, grading, hydraulic concrete pavement. 1911 Act. Bond Act, 1915. Hearing June 18, H. G. Denton, city clerk. Fred J. Klaus, city engineer.

APACHE-NAVAJO COUNTIES, Ariz.—Everly and Allison, at \$35,692, submitted low bid to C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, Phoenix, Ariz., for grading The Petrified Forest National Monument Highway, Route 1, in Apache and Navajo Counties, 16,320-miles in length. Quantities of materials listed in issue of May 18.

Following are the three low bidders out of eight that bid on the project:

- Everly and Allison.....\$ 95,602
- McClure and Denison..... 104,379
- Houghton and MacVicar..... 118,894

Everyly and Allison's bid has been recommended for award.

BOULDER CITY, Nev.—Bids will be called within the next few weeks for the improvement of the streets of Boulder City. The U. S. Bureau of Reclamation at Denver is preparing plans and specifications for this work which will involve about 250,000 sq. yds. of pavement varying in width from 30 to 56 ft. There will be about 90,000 lin. ft. of curb, 18 miles of sidewalk (4 ft. wide in the residence districts and 12 ft. wide in the business section). The walk will be about half gravel and half concrete. This work will also include trenching and laying water and sewer lines. Specifications are being printed in Washington, D. C.

SAN JOSE, Santa Clara Co., Calif.—San Jose Paving Co., Dupont, San Jose, at \$23,683 awarded contract by County Supervisors for macadamizing Currier & Booksin Aves. in Supervisor District No. 4. Complete list of bids follows:

- San Jose Paving Co., San Jose \$23,683
- A. J. Raisch, San Jose..... 23,892
- Union Paving Co., San Francisco..... 24,896

SAN JOSE, Santa Clara Co., Calif.—A. J. Raisch, Burrell Building, San Jose, at \$3,490 awarded contract by County Supervisors for macadamizing Second and Minna Streets in town of Campbell. Granite Construction Co., Watsonville at \$3,341 only other bidder.

MONTEREY, Monterey Co., Calif.—City council declares intention (3146) to improve Hoffman Ave. bet. Ocean View Ave. and Lighthouse Ave. and from Lighthouse Ave. to Hawthorne St. and Prescott Ave. from Ocean View Ave. to Lighthouse Ave. and from Lighthouse Ave. to Hawthorne St., involving paving with 1 1/2-in. asphalt macadam surface. 1911 Act. Bond Act 1915. Hearing June 16. Clyde A. Dorsey, city clerk.

CARMEI, Monterey Co., Cal.—City trustees start proceedings to improve Mission St. bet. Ocean and 10th Aves. Estimated cost \$12,000. Involves storm sewers, curbs, gutters, paving. Bids will be asked about June 17.

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MONTEREY, Monterey Co., Calif.—Until June 16, 7 P. M., bids will be received by Clyde A. Dorsey, city clerk (3128) to improve Teresa St. between Monroe and Harriet Sts., and between Clay and High Sts., involving grading, 2½-in. asph. conc. base pavement with 1½-in. asph. conc. surface; conc. curbs, gutters, sidewalks; 14 4-inch house connection sewers, 1911 Act. Bond Act 1915. Certified check 10% payable to city required with bid. Plans on file in office of clerk.

REDWOOD CITY, San Mateo Co., Cal.—County Surveyor James S. James preparing plans to eliminate dangerous curves on the Woodside Road from Redwood City to Woodside and for rock and oil surfacing on the Alpine Road to the Memorial Park.

NAPA, Napa Co., Cal.—Ray E. Errington, Napa, at \$3219.93 awarded contract by city council to improve Jackson St., bet. Yajome and Lawrence Sts., involving asphalt macadam pave; curbs, etc.

SACRAMENTO, Cal.—Until June 15, 10 A. M., bids will be received by Harry Hall, county clerk, for paving 2 miles of road in Manzanita Ave. from Fair Oaks Blvd. to Madison Ave. and the construction of two concrete culverts at Madison Ave. Paving, estimated to cost \$7900; culverts \$3900. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from County Engineer Chas. Deterding Jr.

SAN JOSE, Santa Clara Co., Cal.—Until June 15, 11 A. M., bids will be received by Henry A. Fisher, county clerk, for macadamizing Fruitdale Ave. from the Meridian Road to the San Jose-Los Gatos Highway. Specifications obtainable from Robert Chaudler, county surveyor.

REDWOOD CITY, San Mateo Co., Cal.—County Surveyor James S. James making surveys to extend California Drive from North Burlingame to San Bruno Ave. in San Bruno.

CHURCHILL COUNTY, Nev.—Until July 15, 2 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, to improve 10.14 miles in Churchill County between 5 miles south of Fallon and Salt Wells, involving furnishing, applying and mixing asphaltic fuel oil with roadway surface. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from engineer. Certified check 5% required with bid.

LYON COUNTY, Nev.—Until July 15, 2:30 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, to improve 8.61 miles in Lyon County between 5 miles north of Fernley and the Lyon-Churchill Coun-

ty line, involving furnishing, applying and mixing cut-back asphalt with roadway surface. Certified check 5% required with bid. Plans on file in office of U. S. Bureau of Public Roads, 461 Market St., San Francisco, and obtainable from engineer.

HAWTHORNE, Nev.—A. D. Drumm Jr., Fallon, Nev., at \$15,413 awarded contract by Bureau of Yards & Docks, Navy Department, Washington, D. C., for asphaltic road oiling at Naval Ammunition Depot at Hawthorne, Nev. Complete bid listing previously noted.

BERKELEY, Alameda Co., Cal.—A. J. Marin, 1049 Murray St., Berkeley, at \$7,022 awarded contract by city council to construct pathway between Euclid and Hilldale Aves., involving: 40 cu. yds. excavation, \$2; 40 cu. yds. concrete, \$21.75; 1800 lbs. reinforcing steel, \$64.

ANTIOCH, Contra Costa Co., Cal.—City council declares intention (53-A) to improve portions of Empire Ave., involving grading, hyd. conc. pave, curbs, gutters, culverts and drains, 4-in. vitrified clay pipe sanitary sewers, piping for domestic water supply system. 1911 Act. Bond Act 1915. Hearing June 15. J. E. McElheney, city clerk. E. L. O'Hara, city engineer.

EUREKA, Humboldt Co., Cal.—Until June 17, 10 A. M., bids will be received by Fred M. Kay, county clerk, to furnish 2000 cubic yards or more of crushed rock for Martin's Ferry Road; same to be surfaced with crusher run 7-feet wide and 6-inches thick, beginning at a point near French Camp and extending to Martins Ferry in Rd. Dist. No. 5. Certified check 5% required with bid. Specifications obtainable from Frank Kelley, county surveyor.

STOCKTON, San Joaquin Co., Cal.—Until June 15, 11 A. M., bids will be received by Eugene D. Graham, county clerk, to improve the Holt road from Holt to the McDonald Island Rd. in Road District No. 1. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from Julius Manthey, county surveyor.

MENDOCINO COUNTY, Cal.—Until June 24, 2 P. M., bids will be received by State Highway Commission to improve 2.3 miles between Dry Creek Bridge and Christine, involving grading, surface with screened gravel and construct timber bridge.

HUMBOLDT COUNTY, Cal.—Until June 24, 2 P. M., bids will be received by State Highway Commission to surface with bituminous treated gravel, 8.4 miles between Big Lagoon and Freshwater Lagoon.

See call for bids under official proposal section in this issue.

SAN FRANCISCO.—Until June 17, 2:30 P. M., bids will be received by S. J. Hester, City Purchasing Agent, to extend Van Ness Ave. from Mission to Howard St. Cost, \$40,000, engineer estimate. Plans and specifications obtainable from above on deposit of \$10, returnable. Work involves:

- (1) 100,000 sq. ft. asph. conc. pave., of ½-in. asph. conc. wearing surf., 1½-in. binder course and 6-in. class F concrete base;
- (2) 170 tons conform pave., of 1½-in. asph. conc. wearing surf. and 1½-in. binder course;
- (3) 25,000 sq. ft. concrete sidewalk (1 course);
- (4) 1850 lin. ft. armored conc. curb;
- (5) 800 lin. ft. 8-in. V.C.P. sewer;
- (6) 800 lin. ft. 12-in. do;
- (7) 16 8x6-in. Y or T branches;
- (8) 14 12x8-in. do;
- (9) 100 lin. ft. 10-in. V.C.P. culvert;
- (10) 200 lin. ft. 6-in. V.C.P. side sewers;
- (11) 9 brick manholes;
- (12) 5 brick catchbasins;
- (13) reconstruct high pressure hydrant line (pump sum bid);
- (14) 8 safety islands of armored conc. curb, conc. sidewalk and conc. base for beacon (pump sum);
- (15) 4340 lin. ft. 1½-in. stand. black pipe conduit;
- (16) 6 standard warning beacons complete, incl. 8 warning reflectors and concrete base;
- (17) 18 standard 3-in. yellow reflectors
- (18) 10 wired type stop signs;
- (19) 7 junction boxes, complete;
- (20) 7 traffic turning buttons;
- (21) 800 metal line markers in place;
- (22) 5 safety zone buttons, reflector type, in place;
- (23) 4 safety zone buttons in place;
- (24) 1030 lin. ft. 2-in. standard black pipe conduit;
- (25) 2020 lin. ft. 7-conductor lead and cover cable (6 conductors No. 14 wire R. C. and 1 conductor No. 10 wire R. C.);
- (26) 80 lin. ft. of 2-conductor (No. 10 wire R. C.) lead covered cable;
- (27) 1920 lin. ft. of 2-conductor (No. 12 wire R.C.) lead covered cable.

TULARE COUNTY, Cal.—Until June 15, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading Section A of the General Grand-Sequoia Park Approach Road in the Sequoia National Forest, 6.752 miles in length. Project involves:

- 47 acres clearing;
 - 181,000 cu. yds. unclass. excavation;
 - 778 cu. yds. unclass. excavation for structures;
 - 33,500 sta. yds. overhaul;
 - 6,752 miles finish earth graded road;
 - 354 cu. yds. class A concrete;
 - 40,500 lbs. reinf. steel;
 - 262 cu. yds. masonry;
 - 2,998 lin. ft. C. M. pipe in place.
- Specifications obtainable from engineer on deposit of \$10, returnable. Checks for same to be made payable to the Federal Reserve Bank of San Francisco.

VALLEJO, Solano Co., Calif.—City council declares intention (173) to improve Arkansas St. between Sutter and Madera Sts., involving grading, 5-in. asph. conc. pavement 28-ft. wide, combined concrete curbs and gutters, 4-in. vit. clay pipe house lateral sewers. 1911 Act. Hearing June 12. Alf E. Edgecumbe, city clerk. T. D. Kikenny, city engineer.

DOUGLAS COUNTY, Nevada.—See separate unit and total bid listing on 4.164 miles of grading on Glenbrook National Forest Highway in Tahoe National Forest, Nevada. Contracting Co., Fallon, Nev., low at \$73,995.

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Phone GARfield 4374

PLACER AND NEVADA COUNTIES, Cal.—Until June 24, 2 P. M., bids will be received by State Highway Commission for bituminous treatment on 20.0 miles between Airport and Soda Springs.

SANTA BARBARA COUNTY, Cal. J. F. Kanpp, Financial Center Bldg., Oakland, at \$11,782.50 awarded contract by State Highway Commission for treating with asphaltic road oil and screenings, 15.5 miles between Buckhorn Creek and the second crossing of the Cuyama River, involving, 230 tons asphaltic road oil, \$15.75; 1920 cu. yds. screenings, \$4.25. Complete list of unit bids published in issue of May 29.

HUMBOLDT COUNTY, Calif.—As previously reported, bids will be received June 24, 2 P. M., by State Highway Commission to surface with bituminous treated gravel, 8.4 miles between Big Lagoon and Freshwater Lagoon. Project involves:

- (1) 5500 cu. yds. selected material (shoulders);
- (2) 21,200 tons bituminous treated gravel surfacing.

PLACER-NEVADA COUNTIES, Cal.—As previously reported, bids will be received June 24, 2 P. M., by State Highway Commission for bituminous treatment on 20 miles between Airport and Soda Springs. Project involves:

- (1) 1430 barrels fuel oil;
- (2) 2040 tons cutback asphalt;
- (3) 1055 stations mixing cutback asphalt and surfacing materials;
- (4) 270 cu. yds. filler material;
- (5) 4750 tons untreated crusher gravel or stone shoulders.

MENDOCINO COUNTY, Calif.—As previously reported, bids will be received June 24, 2 P. M., by State Highway Commission to improve 2.3 miles between Dry Creek Bridge and Christine, involving grading, surface with screened gravel and construct timber bridge. Project involves:

- (1) 19 sta., clear and grub right of way;
- (2) 15 each, stumps removed and disposed of;
- (3) 67,000 cu. yds. roadway excavation without class;
- (4) 163,700 sta. yds. overhaul;
- (5) 2150 cu. yds. structure excav.
- (6) 5700 cu. yds. screened gravel surfacing;
- (7) 320 cu. yds. class A Portland cement concrete (structures);
- (8) 112 cu. yds. class B do;
- (9) 35,600 lbs. bar reinf. steel (struc.);
- (10) 8425 lbs. structural metal;
- (11) 144 lin. ft. -in. corr. metal pipe;
- (12) 134 lin. ft. 15-in. do;
- (13) 144 lin. ft. 18-in. do;
- (14) 250 lin. ft. 24-in. do;
- (15) 100 lin. ft. 30-in. do;
- (16) 1600 lin. ft. 8-in. perforated metal pipe underdrains;
- (17) 377 each, timber guide posts and culvert markers;
- (18) 65.8 M. ft. b.m. redwood timber, dense select all-heart struc.;
- (19) 8.2 M. ft. b.m. redwood timber, dense select all-heart structural;
- (20) 30 cu. yds. broken stone (bitum. macadam surface);
- (21) 2 tons asphalt road oil (bitum. macadam surface);
- (22) 430 barrels light fuel oil;
- (23) 113 stations finish roadway;
- (24) 44 each, monuments complete in place.

The state will furnish corrugated metal pipe, flood gates, spillway assemblies and cast steel frames and covers for drop inlets.

BUSINESS OPPORTUNITIES

SAN FRANCISCO—Names and addresses of the individuals or firms concerned in the following opportunities will be furnished on request to the Business Opportunity Department of Daily Pacific Builder, 545-547 Mission Street. Phone Garfield 3744.

21084—Representation, Hong Kong, China. Trading company is desirous of acting as representative for local importers and exporters, in China.

21085—Furniture, Hong Kong, China. Exporters of seagrass and rattan furniture are seeking a local market.

21089—Lamps, Tokyo, Japan. Exporters of electric lamps, such as automobile lamps, flash lights, etc., wish to contact interested importers.

21092—Representation, San Francisco. Party leaving for Chile and Colombia in June wants to represent San Francisco manufacturers, especially familiar with agricultural appliances.

21093—Cambria Steel, Victoria, B. C. Blacksmith wishes to procure Cambria steel for racing plates.

21095—Brushes, San Francisco. Director of Japan Brush Exporters Association is in San Francisco for a few days to meet exporters to Mexico, Central and South America, who can act as agents for tooth, hair, coat and other brushes of pig bristles and celluloid or bone handles. Samples available.

21095—Sales Agency, San Francisco. Firm in Vilvorde-Brussels, wishes to obtain the sales agency for Belgium of electric appliances and material.

Steadily increasing activity in residential building during the first quarter of 1931 and the first month of the current quarter is regarded as a distinctly beneficial indication with relation to the general business situation, according to Charles F. Crothers, vice president and general manager of California Mutual Building & Loan Association.

Activity in residential building is generally regarded, Crothers asserted, to be an indication of recovery from depression. During the first four months of 1931, residential building has shown an increase over each preceding month.

Success in residential building, following the exceptional activity between 1923 and 1928, has largely been eliminated, according to surveys made by competent organizations, and the ratio between supply and demand is reported nearly normal.

In line with the policy approved by President Hoover, temporary restriction of timber sales from the national forests, to relieve the lumber industry depression, has been ordered by the Forest Service.

Chief Forester Stuart announced instructions had been sent to all regional offices to make no sales during the present business situation where the value of timber sold is in excess of \$500, except under these conditions: To supply the needs of already existing sawmills which are dependent upon national forests for raw materials.

To furnish domestic paper mills with raw material needed to supply the domestic market with newsprint and other wood pulp products.

To dispose of wind-thrown, fire-damaged or other fire-killed and bug-infested timber.

"Assembly Bill No. 1752 broadens the powers of the State Fire Marshal by materially concerning the fire prevention equipment and design of State institutions and other structures where a large number of persons congregate either to live or work," says Will J. French, director of the State

Department of Industrial Relations. "Provision is made for orders, rules and regulations not inconsistent with any existing law or ordinance, and methods of enforcement are set forth in the statute, with reference to the means and adequacy of exits, and the installation and maintenance of fire alarm and extinguishment systems. Factories, hotels, hospitals, salariums, churches, schools, halls, theaters and amphitheaters, are named as in need of attention. The State Fire Marshal is to carry an educational work throughout California, and encourage the adoption of fire prevention measures."

Steel fabricators of New Jersey secured enactment of a law that requires all steel contracts on state work to be made direct with the state authorities.

Thus the steel fabricator is assured a fair price for his products, and the general contractor, the real cause of the steel fabricator's woes, is deprived of the privilege of exploiting him. That, at least, is the theory.

"However," says Engineering News-Record, "if history repeats itself, actual developments may be somewhat different. One has only to consider the cement industry to obtain a picture of the working of the separate contract arrangement in so far as contract prices are concerned. When cement manufacturers achieved their independence from general contractor and went to work for the owner in this instance the state highway department—they too visioned a bright future. But they found the owner quite as capable of bargaining for a low price as was the general contractor. To be sure, he operated somewhat differently—namely, by throwing out all bids and calling for new ones instead of personally conducting a price-cutting war among the several bidders. But the result was the same—the contract often was awarded for less than cost. It is hard, therefore, to be optimistic with the steel fabricators over their victory. One can sympathize with their feelings toward some general contractors who seek to increase their general manager fee by striking sharp bargains with their subcontractors. But merely substituting the owner for the general contractor is not a general panacea for the subcontractor's ills. Fair prices will be received only when the subcontractors display enough backbone to refuse to bid below cost."

On May 1st the State Division of Labor Statistics and Law Enforcement announced that wage claims had been settled affecting two Sacramento concerns, the California Cooperative Producers and the American Engineering Corporation, Ltd. The former was faced with 654 claims for the amount of \$23,431.19, and the latter had 38 former employees asking for \$2,760.63, a total of 692 petitions for the sum of \$26,191.83. The checks were forwarded to the Capital City of the day mentioned above.

The Division has reason to be proud of its record work. There is no doubt that the aggregate of 654 claims filed was by far the largest number against one employer. All of the \$26,191.83 was turned over in checks to the men and women whose labors entitled them to every cent. State of California does not charge fees to those who gain because there is a law available for their protection.

Establishment of better trans-continental freight rates has resulted in improving San Francisco as a marketing and importing center, according to a statement by Willoughby M. McCormick of Baltimore, a founder of the United States Chamber of Commerce.

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
805	Hoffman	Holt	17000
806	Hilp	Barrett	2000
807	Puit	Elkington	4500
808	Bunzhaf	Todhunter	1000
809	Christlan	Owner	30000
810	Allen	Owner	100000
811	Kambic	Owner	8400
812	Cereal	Owner	16500
813	Meyer	Owner	8000
814	Meyer	Owner	10000
815	Stoneson	Owner	7000
816	Grahn	Owner	17500
817	Bode	Owner	6000
818	Meyer	Owner	4000
819	Meyer	Owner	8000
820	Meyer	Owner	8000
821	Stoneson	Owner	2500
822	Jacobs	Owner	2000
823	Sobrato	Owner	1000
824	Craig	Stevenson	2950
825	Gilpin	Hobbs	4000
826	Cramerding	Owner	4750
827	Webb	Gray	4500
828	Smith	Owner	2500
829	Giovanetti	Owner	1500
820	Basello	Hamill	1900
821	Samuelson	Owner	7000
822	Evers	Owner	2000
823	Grasso	Owner	1000
824	Coven	Owner	4000
835	Field	Taylor	10000

APARTMENTS

(805) S 16th ST. 266 E Dolores St.; three-story and basement frame (9) apartments.
Owner—M. Hoffman, 3235 16th St.
Architect—Not Given.
Contractor—O. K. Holt, 3957 Army St. \$17,000

ALTERATIONS

(806) SW COR. HARRISON and Merlin Sts.; alterations to cleaning and dyeing works.
Owner—Mrs. A. Hilp, 2210 Jackson St.
Architect—Not Given.
Contractor—Barrett & Hilp, 918 Harrison St. \$2000

DWELLING

(807) W 15th AVE. 130 N Taraval; one-story and basement frame dwelling.
Owner—Mr. and Mrs. H. T. Puit, 358 Madrid St.
Architect—S. A. Colton, 3020 Balboa.
Contractor—G. J. Elkington Sons, 220 Vicente St. \$4500

REPAIRS

(808) 452 ALVARADO ST.; repair fire damage.
Owner—E. T. Bunzhaf, 452 Alvarado Street.
Architect—Not Given.
Contractor—G. C. Todhunter, 1088 Ashbury St. \$1000

APARTMENTS

(809) NW BEACH and Broderick; three-story and basement frame (12) apartments.
Owner—C. F. Christlan, 3427 Broderick Street.
Architect—R. R. Irvine, 747 Call Bldg. \$20,000

APARTMENTS

(810) COR. MARKET, LAGUNA and Herman Sts.; six-story class C hotel-apartments.

Owner—H. B. Allen, Inc., 168 Sutter.
Architect—H. C. Baumann, 251 Kearny Street. \$100,000

DWELLINGS

(811) W KANSAS 175 N 18th Street; two 1-story and basement frame dwellings.
Owner—J. Kambic, 500 San Bruno Avenue.
Architect—Not Given. each \$4200

ALTERATIONS

(812) S FULTON ST. 100 E Webster; remove present frame boiler room and warehouse, replacing with reinforced concrete structure.
Owner—Cereal Products Refining Co., Fulton and Webster Sts.
Engineer—H. H. Soule. \$16,800

DWELLINGS

(813) W FOERSTER 500 N Melrose; two 1-story and basement frame dwellings.
Owner—Meyer Bros., 727 Portola Dr.
Plans by Owner. each \$4000

DWELLINGS

(814) W ROCKDALE 339 W Del Sur; two 1-story and basement frame dwellings.
Owner—Meyer Bros., 727 Portola Dr.
Plans by Owner. each \$5000

DWELLINGS

(815) E 26th AVE. 60 N Vicente; two one-story and basement frame dwellings.
Owner—Stoneson Bros. & Thorinsson, 279 Yerba Buena Ave.
Plans by Owner. each \$2500

DWELLINGS

(816) NE TOCOLOMA and Blankin; five 1-story and basement frame dwellings.
Owner—W. H. Grahn, 2965 Mission St.
Architect—Not Given. each \$3500

INDUSTRIAL BLDG

(817) E TARA N Geneva; one-story frame industrial building.
Owner—Bode Gravel Co., 235 Alabama Street.
Engineer—H. P. Davis. \$6000

DWELLING

(818) E CHARES 128 S Evelyn; one-story and basement frame dwelling.
Owner—Meyer Bros., 727 Portola Dr.
Plans by Owner. \$4000

DWELLINGS

(819) W JAUNITA 187 N Marne; 2 one-story and basement frame dwellings.

Owner—Meyer Bros., 727 Portola Dr.
Plans by Owner. each \$4000

DWELLINGS

(820) W ROCKDALE 98 N Omar; 2 one-story and basement frame dwellings.
Owner—Meyer Bros., 727 Portola Dr.
Plans by Owner. each \$4000

DWELLING

(821) W 25th AVE. 120 N Vicente; 1-story and basement frame dwelling.
Owner—Stoneson Bros. & Thorinsson, 279 Yerba Buena Ave.
Plans by Owner. \$3500

ALTERATIONS

(822) 1057 SUTTER ST.; alterations to drug store front.
Owner—Dr. S. W. Jacobs, 1060 Sutter.
Plans by Owner. \$3000

ALTERATIONS

(823) 18 OSGOOD ST.; alterations to restaurant.
Owner—J. Sobrato, 18 Osgood St.
Architect—Not Given. \$1000

DWELLING

(824) W ROEDO 132 N Somerset St.; one-story and basement frame dwelling.
Owner—M. A. Craig, 3932 San Bruno Avenue.
Plans by Builder.
Contractor—L. H. Stevenson, 130 Merced Ave. \$3950

DWELLINGS

(825) W 37th AVE. 200 S Moraga; two one-story and basement frame dwellings.
Owner—T. Gilpin, 265 San Leandro Way.
Architect—Not Given.
Contractor—R. P. Hobbs, 818 Shrader Street. \$4000

DWELLING

(826) W CAINE ST. 300 S Lakeview; one-story and basement frame dwelling.
Owner—H. G. Cramerding, 356 Sanchez St.
Plans by Owner. \$4750

ADDITION

(827) 223 CERVANTES BLVD.; addition of 5-room apt. to roof of present apartment.
Owner—J. Webb, 233 Cervantes Blvd.
Architect—H. E. Stoner.
Contractor—H. E. Gray, 2150 Baker Street. \$4500

DWELLING

(828) E EUREKA 125 N 22nd St.; one-story and basement frame dwelling.
Owner—J. R. Smith, 1262 Page St.
Plans by Owner. \$3500

ADDITION

(829) 117 CASTRO ST.; addition of two rooms and alter dwelling.
Owner—E. J. Giovanetti, 117 Castro Street.
Architect—Not Given. \$1500

REPAIRS

(830) 305 MONTEREY BLVD.; repair fire damage.
Owner—J. Basello, 305 Monterey Blvd.
Architect—Not Given.
Contractor—T. Hamill, Inc., 6140 Geary Street. \$1900

CAPITAL CITY TILE COMPANY

J. C. PALEN

Manager

914 Seventh Street

Sacramento - - - - California

DWELLINGS

(831) S SANTIAGO 67 W 44th Ave.; two 1-story and basement frame dwellings.

Owner—A. M. Sammelson, 901 Geneva Avenue.
Plans by W. R. Welschmer, 924 Frague St. each \$3500

DWELLINGS

(832) E 17th AVE. 275 S Vicente; two 1-story and basement frame dwellings.

Owner—K. Evers, 97 San Pablo Ave.
Architect—C. F. Strothoff, 3254 15th Street. each \$3000

ALTERATIONS

(833) 1875 SAN BRUNO AVE.; alterations to office.

Owner—G. Grass, 1875 San Bruno Avenue.
Architect—Not Given. \$1000

DWELLING

(834) W 22nd AVE. 160 S Vicente; 1-story and basement frame dwelling.

Owner—Stanley Cowen, 1123 Taraval Street.
Plans by Owner. \$4000

ALTERATIONS

(835) N PACIFIC AVE. 100 W Scott; alterations and additions to residence.

Owner—Mrs. Alex. Field, 2712 Pacific Avenue.
Architect—G. W. Kelham, 315 Montgomery St.
Contractor—Taylor & Jackson, 290 Tehama St. \$10,000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Am't.
102	S P Co	Walles	—
103	San Francisco	McGilvray	—
104	Craig	Stevenson	4055
105	San Francisco	Rosenberg	673
106	McCarthy	Meyer	7389
107	Curtis	Morria	4000
108	Hoffman	Holt	18500

PAINTING

(102) ARMY ST., Evans Ave., Jerrold Ave., and Quint St.; painting bridges with bitumastic solution and enamel.

Owner—Southern Pacific Co., 65 Market Street.
Architect—Not Given.
Contractor—Walles Dove Hermiston Corp., 345 Vermont St.

Filed June 28, '31. Dated May 25, '31.
1st of each month.....75%
Usual 35 days.....25%

TOTAL COST Not Given.
Bond, \$4386.50. Sureties, U. S. Guarantee Co. Limit, 90 days.

GRANITE WORK, ETC.

(103) BLOCKS bounded by Van Ness Avenue, Franklin, McAllister and Grove Sts.; all granite work for War Memorial (a) granite for base course; (b) steps, platforms, etc. (c) exterior columns, loggias, capital bases, etc.

Owner—The Board of Trustees of the War Memorial of San Francisco, 451 Montgomery St.
Architect—Arthur Brown, Jr., and G. A. Lansburgh, 251 Kearny St.
Contractor—McGilvray-Raymond Corp., 3 Petre Avenue.

Filed June 1, '31. Dated May 22, '31.
Tenth of each month until 75% of contract price is paid.....75%
Usual 35 days.....25%

If granite is set against pre-cast concrete backing.....\$274,457
If granite is set before backing is poured.....276,257
Two bonds with same amount and surety, \$138,128.50. Sureties, Fidelity & Deposit Co. of Maryland. Limit,

160 days for (a) and (b); 250 days for (c). Plans and Spec. filed.

DWELLING

(104) W RODEO AVE. 132-4 1/2 m or 1 N Somersct; all work on 1-story and garage frame dwelling.

Owner—Miss M. A. Craig, 3932 San Bruno Ave.
Architect—Not Given.
Contractor—L. H. Stevenson, 130 Merced St.

Filed June 1, '31. Dated May 28, '31.
Roof on.....1100
Brown coated.....1000
Completed.....1055
Usual 35 days.....1000

TOTAL CCST, \$4055
Limit, 90 days. Plans and Spec. filed.

GRADING, ETC.

(105) PLOT bounded by Turk, Parker Ave., Rose St.; grading, hauling and road work.

Owner—San Francisco College for Women (conducted by The Sacred Heart).
Architect—H. A. Minton, Bank of America Bldg.
Contractor—Meyer Rosenberg, 175 E San Bruno Ave.

Filed June 1, '31. Dated May 20, '31.
Monthly payments of.....75%
Usual 35 days.....25%

TOTAL COST 25c per cu. yd. & \$673.22 for sub-grade and roads.
Bond, \$50,000. Sureties, American Bonding Co. of Baltimore. Limit, Aug. 15, 1931. Plans and Spec. filed.

DWELLINGS

(106) LOTS 7 and 8 BLK 2956-A map Subdiv No 7, Miraloma Park; all work on two 1-story and basement frame dwellings.

Owner—The McCarthy Co., 46 Kearny Street.
Architect—Not Given.
Contractor—Meyer Bros., 727 Portola Drive.

Filed June 1, '31. Dated May 29, '31.
Roof sheathing on.....\$1,847.25
Brown coated.....1,847.25
Completed.....1,847.25
Usual 35 days.....1,847.25

TOTAL COST, \$7,389.00
Limit, 90 days. Plans and Spec. filed.

DWELLING

(107) GEARY ST., first lot south of Baker St.; all work on five room and garage frame and stucco dwelling.

Owner—Mrs. M. Curtis, % contractor.
Architect—Not Given.
Contractor—Morris and Welner, 1182 Market St.

Filed June 3, '31. Dated May 18, '31.
Frame up.....\$800
First coat plaster.....800
Finished plastered.....800
Completed.....800
Usual 35 days.....800

TOTAL COST, \$4000
Limit, 90 days.

BUILDING

(108) S 16th St. 26-6 E Dolores St. E 32-6 x S 110; all work on three-story frame building.

Owner—Morris Hoffman.
Architect—Not Given.
Contractor—O. K. Holt, 3957 Army St.

Filed June 3, '31. Dated May 30, '31.
Frame up.....\$4,825
Brown Coated.....4,825
Completed and accepted.....4,825
Usual 35 days.....4,825

TOTAL COST, \$18,500
Limit, 90 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

May 27, 1931—LOT 14 BLK A Map Lakeview pin Rancho San Miguel. Wm E and J G Grosman to whom it may concern.....May 23, 1931

May 27, 1931—W 30th AVE 75 S Carrillo S 25 x W 95. B Mirsky and

Son, Inc to whom it may concern.....May 23, 1931

May 27, 1931—E 22nd AVE 143 North N St. Noah Swanson to whom it may concern.....May 27, 1931

May 27, 1931—PTN LOTS 4 and 5 Blk 3275 Map Mt Davidson Manor. Geo O Bendon to Plombo Bros & Co.....May 19, 1931

May 29, 1931—LOT 10 BLK 139, University Md. L B Terlip to whom it may concern.....May 23, 1931

May 28, 1931—SE SAN JOSE AVE dist N 28 deg E 5-93 from SW line to blk H Mission Terrace N 25 deg E 35-19 S 65 deg 51 min E 125-73 S 28 deg W 35-19 N 55 deg 51 min W 125-73 ptns lots 15 and 16 blk H Mission Terrace. Marshall T Struthers to Gerald J Conway.....May 28, 1931

May 29, 1931—SE SAN JOSE AVE dist N 28 deg E 15-68 from SW line lot 15 blk H Mission Terrace N 28 deg E 35-2 S 55 deg 51 min E 125-73 S 28 deg W 35-2 N 55 deg 51 min W 125-73 to beg all lot 14 ptn lot 15 blk H Mission Terrace. Marshall T Struthers to Gerald J Conway.....May 28, 1931

May 29, 1931—W 23rd AVE 190 S Ulloa S 25 x W 120. John F and Mary C McCabe to Marshall T Struthers.....May 28, 1931

May 29, 1931—E 30th AVE 300 South Ulloa S 25 x E 120. A J and Mary A Herzig to whom it may concern.....May 29, 1931

May 29, 1931—W 14th AVE 200 N Taraval 30 x 127-6. Herman Christensen to whom it may concern.....May 29, 1931

May 29, 1931—E 30th AVE 275, 550, 225 S Ulloa S 25 x E 275, 550, 225 S Ulloa S 25 x E 120. A J and Mary A Herzig to whom it may concern.....May 29, 1931

May 29, 1931—PTN LOTS 17 and 18 blk 3258 Balboa Terrace Addn described W Santa Ana Ave and N line lot 19 blk 3258 N 39 N 60 deg 15 min 33-2 sec W 99-973 S 35-312 S 53 deg 07 min 34-4 sec E 99-044 to beg. Castle Bldg Co to Henry-Horn.....May 29, 1931

May 29, 1931—E 22nd AVE 200 S Moraga S 25 x E 120. R P Hobbs to whom it may concern.....May 29, 1931

May 28, 1931—LOTS 5, 6 and 7 BLK 2948-A Sub No 5, Miraloma Park. Meyer Bros to whom it may concern.....May 27, 1931

May 28, 1931—W 38th AVE 125 S Judah S 25 x W 120. Frank P Dunnington to John E McCarthy.....May 28, 1931

May 28, 1931—LOT 39 BLK 45, map Sunnyside. Frank L McAfee to whom it may concern.....May 28, 1931

May 28, 1931—N ORTEGA 107-6 W 21st Ave W 25 x N 100. C and F Getto to whom it may concern.....May 28, 1931

May 27, 1931—N 21st ST 96 W Douglas St. Mrs A Filippi to whom it may concern.....May 20, 1931

May 27, 1931—E 94th AVE 200 S Moraga 25x100. Robt W and Myrtle M Hancock to whom it may concern.....May 27, 1931

May 27, 1931—COR MARKET AND Eddy Sts, 912 Market and 25 and 29 Eddy St. Douglas Realty Co, Ltd to whom it may concern.....May 28, 1931

June 2, 1931—607-609 SECOND AVE. Chas Silen to I W Coburn.....June 2, 1931

June 2, 1931—N JUDAH ST 97-6 E 29th AVE E 35 x N 100. St. Geo Holden to whom it may concern.....June 2, 1931

June 2, 1931—E 32nd AVE 75, 100, 125 S Rivera. Thos J Sullivan to whom it may concern.....June 2, 1931

June 2, 1931—E 35th AVE 75 S Ulloa. Thos J Sullivan to whom it may concern.....June 2, 1931

June 2, 1931—W 22nd AVE 100 S Moraga 25x120. E Heglin to whom it may concern.....June 2, 1931

June 2, 1931—E EIGHTH AVE 200

N Norlega N 99-11 x E 100. R F
Galli to whom it may concern.....
June 2, 1931—NW 22nd and Kansas
25x100. E Frankoin to whom it
may concern.....June 1, 1931
June 1, 1931—N WALLER 100 West
Broderick N 72-5 W 70-4 1/2 S 24
deg 31 min E 75-0 1/2 E 50-7 1/2. San-
cal Corp to whom it may concern.....
June 1, 1931
June 1, 1931—W SAN BRUNO 218
S Oakdale Ave. C R Haley to In-
dependent Const Co.....May 27, 1931
June 1, 1931—W 20th Ave 225 S
Lawton St. O W Graf to H Erick-
son.....May 22, 1931

656 Peppard Ellam 2750
656 Valley Boerner 3100
657 Netherby Owner 4000
658 Alpers Owner 2500
659 Pleitner Watson 2350
660 Young Rountree 2200
661 Hitchcock Owner 1100

DWELLINGS
(645) W CARBERRY AVE 40 AND 80
N 56th St., OAKLAND. Two one-
story 5-room dwellings.
Owner — C. J. Pfang, 6300 Clare-
mont Ave., Oakland.
Architect—Not Given. \$5000 each

DWELLING
(635) NO. 415 BEGIER AVE., SAN
LEANDRO. One-story and one-half-
story 6-room dwelling.
Owner—John D. Johnson, 2601 64th
St., Oakland.
Architect—Not Given.
Contractor—L. Johnson & Son, 223
Greenback St., Piedmont. \$5500

DWELLING
(646) NO. 2625 CLAY ST., ALAMEDA.
One-story 5-room frame and stucco
dwelling.
Owner—W. F. Justice, 973 Pearl St.,
Alameda.
Architect—Not Given. \$3500

LIENS FILED

San Francisco County

Recorded Accepted
May 28, 1931—E WISCONSIN 172-4
S 20th S 25 x E 100. E Wisconsin
272-6 S 20th S 50 x E 100. J Cas-
saretto vs Ash & Hand. F
Rodriguez\$509.70
May 27, 1931—SE MARKET and SW
6th St SE 110 x SW 75 NW 25 x
NE 25 NW 85 NE 50. Lamey Bros,
3116 F Terheyden, 3271 vs Chas T
Williams Co, H Verblin, W E Buck,
Wm W and J C Ohlandt.....
May 27, 1931—3033 FRANKLIN ST
768 9th Ave. E J Neville vs W A
Larsen\$112.25
May 29, 1931—S JUDAH ST 155 W
14th Ave W 25 x S 120. Crowe
Glass Co vs D B MacDonald.....\$85
Correction
May 28, 1931—W WISCONSIN 50 N
22nd N 25 x W 100. J Cassaretto,
V Domanecco and Rosa Manghisi
vs Ash & Hand.....\$329
June 2, 1931—SE MARKET ST and
SW 6th St SE 110 x SW 75. San
Francisco Wall Board Co vs Chas
T Williams Co, H Verblin, W C
Buck, Wm W and J E Ohlandt.....
June 1, 1931—W BATTERY ST 92-
5 1/2 S Pacific St S 113-9 1/2 x W
137-6 N 68-9 W 47-6 N 45-10 E 91
S 9 1/2" E 94. J H McCallum vs
International Sugar Co, D L R,
W W and A W Nordwell and E N
Gunn\$239.72

DWELLING
(636) NO. 405 BEGIER AVE., SAN
LEANDRO. One-story six-room
dwelling.
Owner—R. M. Banta, 351 Garcia
Ave., San Leandro.
Architect—Not Given.
Contractor—John Young, 233 Leo
Ave., San Leandro. \$5000

DWELLING
(647) NO. 936 CRAGMONT AVE.,
BERKELEY. One-story six-room
1-family frame residence and gar-
age.
Owner — R. McMasters, St. Marks
Hotel, Oakland.
Architect—Not Given. \$6000

ALTERATIONS
(637) 665 HADDON RD., OAKLAND;
alterations.
Owner—H. J. Kaiser, 492 Staten Ave.,
Oakland.
Architect—W. E. Schirmer, 700 21st
St., Oakland.
Contractor—F. J. Westlund, 354 Ho-
bart St., Oakland. \$1000

ALTERATIONS
(648) 1756 EUCLID AVE., BERKE-
LEY; alterations.
Owner—Pbl Kappa Sigma, 1756 Eu-
clid Ave., Berkeley.
Architect—Bliss & Fairweather, Bal-
boa Bldg., San Francisco.
Contractor—J. V. Short, 1386 Euclid
Ave., Berkeley. \$29,000

DWELLING
(638) S SYLVAN AVE. 120 E Maple
Ave., OAKLAND; one-story six-
room dwelling.
Owner and Builder—Axel Swanson,
3142 Wisconsin St., Oakland.
Architect—Not Given. \$3700

MARKET
(649) 900 FRESNO AVE., BERKE-
LEY; class C public market bldg.
Owner—H. F. Armes.
Architect—Dragon & Smith, 403 Mer-
cantile Bank Bldg., Berkeley.
Contractor—W. E. Lyons, 354 Hobart
St., Oakland. \$15,000

ALTERATIONS
(639) 1415 14th STREET, OAKLAND;
alterations.
Owner—J. Boscaell, 1417 14th St.
Architect—Not Given.
Contractor—P. Delcuchi, 6443 Clare-
mont Ave., Oakland. \$1800

DWELLING
(650) S BRED AVE. 100 E 106th
Ave., OAKLAND; one-story six-
room dwelling and 1-story garage.
Owner and Builder—James E. Grubb,
10815 Bred Ave., Oakland.
Architect—Not Given. \$3300

ADDITION
(640) NW COR. 26th and Harrison
Sts., OAKLAND; tile addition.
Owner—First Congregational Church,
26th and Harrison Sts., Oakland.
Architect—E. G. Bangs, 411 30th St.,
Oakland.
Contractor—A. Cederborg, 1455 Excel-
sior Ave., Oakland. \$3173

DWELLING
(651) 4216 MONTEREY BLVD., OAK-
LAND; one-story 6-room dwelling.
Owner and Builder—W. H. Warren,
3502 Poothill Blvd., Oakland.
Architect—Not Given. \$3500

RELEASE OF LIENS

San Francisco County

Recorded Amount
May 29, 1931—E OCTAVIA ST 100
N Lombard St N 37-6 x E 101-6 1/2.
A A Derrickson to Est of John
Wilderstrom.....
May 29, 1931—N LOMBAR ST 11 W
Octavia W 50 x N 137-6 C Chappa
to A Raven.....

DWELLING
(641) 2733 BUENA VISTA, BERKE-
LEY; two-story 5-room frame and
stucco dwelling and garage.
Owner—A. B. Tusts, 1417 Arch St.,
Berkeley.
Architect—R. B. Matrey, Buena Vista,
Berkeley.
Contractor—W. Melvin, 2236 Blake St.,
Oakland. \$6000

STORE
(652) SE COR. COLLEGE AVE. and
Ocean View Drive, OAKLAND; one-
story brick store building.
Owner—The Capitol Co., San Fran-
cisco.
Architect—Not Given.
Contractor—Sullivan & Sullivan, 3927
39th Ave., Oakland. \$6000

BUILDING PERMITS

ALAMEDA COUNTY

No. Owner Contractor Amt.
635 Johnson Johnson 5500
636 Banta Young 5000
637 Kaiser Westlund 1000
638 Swanson Owner 3700
639 Boscaell Delucchi 1300
640 Congregational Cederborg 3173
641 Tusts Melvin 6000
642 Tripp Owner 3150
643 McCabe Owner 2750
644 Lindquist Owner 3500
645 Pfang Owner 10600
646 Justice Owner 3500
647 McMasters Owner 6000
648 Phi Kappa Short 20000
649 Armes Lyons 15000
650 Grubb Owner 3300
651 Warren Owner 3500
652 Capitol Sullivan 3000
653 Reichel Owner 3000
654 Burroughs Moore 4000
655 Pollard Owner 3250

DWELLING
(642) 1417 ADA ST., BERKELEY;
one - story 5-room 1-family frame
dwelling and garage.
Owner and Builder—Tripp & Mus-
grove, 1543 Hopkins St., Berkeley.
Architect—W. W. Dixon, 1544 Fifth
Ave., Oakland. \$3150

DWELLING
(653) W FRUITVALE AVE., 200 S
Tiffin Road, OAKLAND; one-story
5-room dwelling.
Owner & Builder—C. O. Reichel, 4276
Fruitvale Ave., Oakland.
Architect—Not Given. \$3000

DWELLING
(643) W LAGUNA AVE 97 S Wilbur
St., OAKLAND. One-story 5-room
dwelling.
Owner—J. D. McCabe, 3457 Mountain
Blvd., Oakland.
Architect—Not Given. \$2750

RESIDENCE
(654) NO. 751 ENSENARDO AVE.,
BERKELEY. One-story 5-room 1-
family frame residence and gar-
age.
Owner—J. N. Burroughs, 57 Bellven
Place, Piedmont.
Architect—Not Given.
Contractor—The John Moore Co., 354
Hobart St., Oakland. \$4000

DWELLING
(644) N MORPETH ST. 100 W Flor-
ence St., OAKLAND. One-story
5-room dwelling.
Owner—C. W. Lindquist, 4107 Brook-
dale Ave., Oakland.
Architect—Not Given. \$3500

RESIDENCE
(655) NO. 1121 MONTEREY AVE.,
BERKELEY. One-story 5-room 1-
family frame residence.
Owner—A. J. Pollard, 77 Plaza Drive,
Berkeley.
Architect—Not Given. \$2250

RESIDENCE
(656) NO. 2436 EDWARDS ST., BER-
KELEY. One-story 5-room 1-
family frame residence.
Owner—A. L. Peppard, 1116 Kalnes
Ave., Berkeley.

Architect—Not Given.
Contractor—G. Ellam, 1409 Santa Fe Ave., Berkeley. \$2750

DWELLING
(656) S CONGRESS AVE 400 S Monticello Ave., **OAKLAND**. One-story 6-room dwelling and one-story garage.

Owner—A. Valley, 1682 69th Ave., Oakland.

Architect—Not Given.
Contractor—W. Roerner, 6123 Laird Ave., Oakland. \$3100

DWELLING
(657) S PROCTOR AVE 109 W Florence St., **OAKLAND**. Two-story 6-room dwelling.

Owner—W. A. Netherby, 3853 Lyman Road, Oakland.
Architect—Not Given. \$4000

RESIDENCE
(658) NO. 1419 ADDISON ST., **BERKELEY**. One-story 5-room 1-family frame residence.

Owner—J. H. Alpers, 1419 Addison St., Berkeley.
Architect—Not Given. \$2500

DWELLING
(659) N WISCONSIN 44 E Maple Ave., **OAKLAND**. One-story 5-room dwelling.

Owner—H. A. Fleitner, 1301 Fruitvale Ave., Oakland.
Architect—Not Given.

Contractor—W. Watson, 4750 Meidson Ave., Oakland. \$2950

ADDITION
(660) NO. 3658 HIGH ST., **OAKLAND**. Add to dwelling.

Owner—R. Young, 3658 High St., Oakland.
Architect—Not Given.

Contractor—M. J. Rountree, 1748 3rd Ave., Oakland. \$2200

ALTERATIONS
(661) NO. 2322 EIGHTY-NINTH AVE. **OAKLAND**. Alterations and additions.

Owner—M. E. Hitchcock, 2222 89th Ave., Oakland.
Architect—Not Given. \$1100

Tenth of each month.....75%
Usual 35 days.....25%
TOTAL COST, \$1510
Bond, \$755. Sureties, Pacific Indemnity Co. Limit, without delay. Plans and Spec. filed.

(59) **MASONRY WORK** on above.
Contractor—Wm. A. Rainey & Son, 323 Clementina St., San Francisco.
Filed May 29, '31. Dated May 12, '31. Payments Not Given.

Bond, \$3792.50. TOTAL COST, \$7587

(90) **COMPOSITION ROOFING** Work on above.
Contractor—Western Roofing Co., 1785 Turk St., San Francisco.

Filed May 29, '31. Dated May 11, '31. Payments Not Given.

Bond, \$1014.50. TOTAL COST, \$2029

(91) **PAINTING** and finishing on the above.
Contractor—J. A. Turgeon, 2055 Webster St., Oakland.

Filed May 29, '31. Dated May 14, '31. Payments Not Given.

Bond, \$4962. TOTAL COST, \$9954

(92) **HARDWOOD FLOORS** on the above.
Contractor—Inlaid Floor Co., Alabama St., San Francisco.

Filed May 29, '31. Dated May 27, '31. Payments Not Given.

Bond, \$2731. TOTAL COST, \$5462

RESIDENCE
(93) **LOT 17 BLK 25**; result of a plan of North Cragmont, Berkeley, general construction on residence.

Owner—Lewis and Kathryn H. Switzer, Berkeley.
Architect—Not Given.

Contractor—J. F. and R. N. Altermatt, 975 Euclid Ave., Berkeley.

Filed June 2, '31. Dated April 11, '31. Progress payments under terms of loan.....\$3000
Usual 35 days.....2000

TOTAL COST, \$5000
Limit, 100 days. Plans and Spec. filed.

Berkeley. II H Brown to E R Converse..... June 1, 1931
June 1, 1931—NO. 2550 TELEGRAPH Ave., Oakland, Grant D Miller to Jensen & Pedersen. May 30, 1931

June 1, 1931—LOT 5 BLK L, Durant Manor, Oakland. Charles W and Ada J Griffith to whom it may concern..... May 29, 1931

June 1, 1931—LOT 186, Best Manor, San Leandro. A P Jensen to A J Jensen..... May 29, 1931

June 1, 1931—LOT 20, Cahill Estate, Castro Valley, Alameda County. Carl D Coker to whom it may concern..... May 29, 1931

June 1, 1931—NO. 1833 AND 1829 108th Ave., Oakland, James B Grubb to whom it may concern..... June 1, 1931

June 1, 1931—PTN BLK F, Plat of Lewelling Division, Alameda. Noble F Justice to whom it may concern..... May 21, 1931

June 1, 1931—LOT 153 BLK J, Peninsula, Alameda. Walter Leonard Hanscom to whom it may concern..... May 21, 1931

June 1, 1931—LOT 2, Mount Vernon Park Tract, Oakland. C W Leekins to whom it may concern..... May 29, 1931

June 1, 1931—NO. 717 HILLDALE, Berkeley. Claude D Black to Claude D Black..... May 29, 1931

May 29, 1931—LOT 2 BLK G, Waterside Terrace, Alameda. Wm E and Hallie Rose to Wm E Rose..... May 25, 1931

May 29, 1931—1448 ORDWAY Street, Berkeley. C O Dull to whom it may concern..... May 27, 1931

May 29, 1931—S TENTH ST between Brush and West Streets, Oakland. The Oakland Japanese Methodist Church to F W Thaxter..... May 12, 1931

May 29, 1931—1515 FRANCIS ST, Albany. Estelle G and Leroy A Weaver to B Reininghaus..... May 21, 1931

May 27, 1931—LOT 12, Grand Oak Tract, Alameda. Walter H Anderson to whom it may concern..... May 25, 1931

May 29, 1931—PTN OF A CTN 37-17 Acre piece of land firstly desc in a certain deed from Realty Syndicate Co to California Memorial Hospital June 28, 19 and recorded in Vol 2796 of Deeds page 66, Oakland. Oakland Company A H Monez..... May 26, 1931

May 28, 1931—523 SANTA FE AVE, Albany. H G Headrick to whom it may concern..... May 25, 1931

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded Accepted

May 27, 1931—NE WASHINGTON Ave and NW Castro St, San Leandro. Gust L Larson to whom it may concern..... May 26, 1931

May 29, 1931—PTN LOTS 38 and 29 Blk 9, Lakeshore Highlands, Oakland. Fred P and Cleo A Kerrick to George W Anderson..... May 28, '31

May 29, 1931—NE FRUITVALE Ave and E 14th St, Oakland. Floyd H Steele to whom it may concern..... May 29, 1931

June 1, 1931—PTN LOT 19 BLK 3 Fruitvale Garden Farms, Oakland. Angelo Casazza to whom it may concern..... May 27, 1931

June 1, 1931—NW 150 FT. LOT 19 Blk 3, Fruitvale Garden Farms, Oakland. Angelo Casazza to whom it may concern..... May 27, 1931

June 1, 1931—NO. 2520 MARIN AVE, Berkeley. II H Brown to E R Converse..... June 1, 1931

RELEASE OF LIENS

Alameda County

Recorded Amount

May 29, 1931—LOT 7 Blk 5, Berkeley Square, Berkeley. Tilden Lumber & Mill Co, \$597.25; Sunset Lumber Co, \$315.16 to Frank H Felt..... May 29, 1931

May 29, 1931—LOT 3 BLK 5, Berkeley Square, Berkeley. Tilden Lbr Co, \$83.59; L A Winchester, \$327.50; Markus Hardware Co, \$52; Berkeley Bldg Materials Co, \$554.38; Rochester Electric Co, \$209.70, to

BUILDING CONTRACTS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
87	Capital	Nordstrom	7930
88	Pacific States	East Bay	1510
89	Same	Rainey	7539
90	Same	Western	2029
91	Same	Turgeon	9924
92	Same	Inlaid	5422
93	Switzer	Altermatt	5090

STORE

(87) NW EAST 14th STREET and 46th Ave., Oakland; general construction on store building.

Owner—Capital Co., San Francisco.
Architect—H. A. Minton, Bank of America Bldg., San Francisco.

Contractor—David Nordstrom, 15 Nace St., Oakland.

Filed May 28, '31. Dated May 26, '31. 1st and 15th of each month.....75%
Usual 35 days.....25%

Bond, \$7390. Sureties, Hartford Accident & Indemnity Co. Forfeit, \$25 per day. Limit, Aug. 1, 1931. Plans and Spec. filed.

SHEET METAL WORK

(88) NE VALLEY ST. and 21st St., Oakland; sheet metal work on 3-story and basement store building.

Owner—Pacific States Auxiliary Co. (P. J. Walker Co., contractor).
Architect—Albert F. Roller.

Sub-Contractor—East Bay Sheet Metal Works, 1101 Market St., Oakland.

Filed May 28, '31. Dated May 6, '31.

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
490 GEARY STREET

Phone FRanklin 9400

San Francisco

Frank H and Beulah Felt.....
 May 29, 1931—LOT 3 BLK 6, Berkeley Square, Berkeley. Tilden Lbr and Mill Co, \$57.25; Inlaid Floor Co, \$28; Atlas Heating & Ventilating Co, \$125; Sunset Lbr Co, \$315.16, to Frank H Felt.....
 May 28, 1931—N LINE E 14th ST 181-21 ft E of 13th Ave, Oakland. Sunset Lumber Co, \$43.40; A Casqueiro, \$190.85; C W Roland, \$165-25, to J R L Jones.....
 May 28, 1931—N LINE E 14th ST 181-21 ft E of 13th Ave, Oakland. Kerr & Clifford, \$48; Kavanagh Bros, \$74, to J R L Jones. McIrose Steel Company.....

LIENS FILED

ALAMEDA COUNTY

Recorded Amount
 May 29, 1931—E HALF LOT 12, Victor Dunn Tract, 248; Harvey and Cecelia Larsen doing business as Larsen Bros vs Louisa Sevens\$101

BUILDING CONTRACTS

SAN MATEO COUNTY

BUNGALOWS
SAN CARLOS. Plumbing for two frame bungalow court buildings. Owner—R. A. Klassen et al, 154 Arch St., Redwood City. Architect—Ernest L. Norberg, 580 Market St., San Francisco. Contractor—P. E. Brand, 401 Washington St., Redwood City. Filed May 29, '31. Dated May 28, '31. As work progresses..... 75% Usual 35 days..... 25% **TOTAL COST, \$5558**
 Bond, none. Limit, 85 working days. Forfeit, \$5. Plans and specifications filed.

BUNGALOWS
SAN CARLOS. Plumbing for two frame bungalow court buildings. Owner—R. A. Klassen et al, 154 Arch St., Redwood City. Architect—Ernest L. Norberg, 580 Market St., San Francisco. Contractor—Montague Range & Furnace Co., Ltd., 376 Sixth St., San Francisco. Filed May 29, '31. Dated May 28, '31. As work progresses..... 75% Usual 35 days..... 25% **TOTAL COST \$1988**
 Bond, none. Limit, 85 working days. Forfeit, \$5. Plans and specifications filed.

STORE BLDG.
 9 BROADWAY 55 W Laguna St., Burlingame. All work for one-story reinforced concrete store building.

Owner—Stelling & Gould, 155 Montgomery St., San Francisco. Architect—Berta, Winter & Maury, 210 Post St., San Francisco. Contractor—G. P. W. Jensen, 320 Market St., San Francisco. Filed May 28, '31. Dated May 27, '31. As work progresses..... 75% Usual 35 days..... 25% **TOTAL COST, \$8600**
 Bond, \$8600. Surety, United States Guarantee Co. Limit, 54 working days. Forfeit, none. Plans and specifications filed.

RESIDENCE
PART LOT 1 BLK 10, Burlingame. All work for two-story frame and stucco residence. Owner—David Simpson et al. Architect—Ernest L. Norberg, 580 Market St., San Francisco. Contractor—G. W. Williams Co., Crawford Bldg., Burlingame. Filed May 26, '31. Dated May 19, '31. As work progresses..... 75%

Usual 35 days..... 2% **TOTAL COST, \$9640.50**
 Bond, none. Limit, 75 working days. Forfeit, \$5. Plans and specifications filed.

RESIDENCE
CAROLANDS. All work for painting two-story residence and garage. Owner—William H. Berg. Architect—Willis Volk & Co., 277 Pine St., San Francisco. Contractor—A. A. Zelinsky & Co., 4420 California St., San Francisco. Filed May 25, '31. Dated May 14, '31. As work progresses..... 75% Usual 35 days..... 25% **TOTAL COST, \$1965**
 Bond, none. Limit, Oct. 1, 1931. Forfeit, none. Plans and specifications filed.

RESIDENCE
LOT 2 BLK 27, Millbrae Highlands. All work for one-story frame and stucco residence. Owner—A. L. Gander et al. Architect—Charles F. Strothoff, 2274 15th St., San Francisco. Contractor—Arne M. Arnesen, S. F. Filed May 27, '31. Dated April 23, '31. Frame up..... \$1125 Brown coated..... 1125 Completed..... 1125 Usual 35 days..... Balance **TOTAL COST, \$6737.50**
 Bond, none. Limit, 90 working days. Forfeit, none. Plans and specifications filed.

BUILDING PERMITS

SAN MATEO

GAS STATION, \$9000; Lots 16-17 Blk 23, Bayshore; owner, H. C. Lengfeld; contractor, Lengfeld & Olund 145 N El Camino Real, San Mateo.
DWELLING, \$8000; Lot 4 Blk 5, 528 Fordham; owner and builder, H. A. Norton.

BUNGALOW, \$4500; Lot 10 Blk H, Palm; owner and builder, J. V. Westerlund.

ALTERATIONS, \$1000; Lot 11 Blk 54 19 S Grant, owner, K. Nasaka, 112 N Fremont, San Mateo; contractor, Chris D. Ellis.

RESIDENCE, \$11,550; Lot 155 Blk 2 Belevue; owner, Mrs. L. R. Edwards; contractor, E. T. Leiter & Sons.

APARTMENT house, (15 apt.), \$40,000; Lot 5 Blk 17, B & G El Camino Real, San Mateo; owner and contractor, Moore Constr. Co., 101 Post St., San Francisco.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
 May 28, 1931—LOT 12 BLK 9, San Mateo City Homestead. Domenico Bacelli to whom it may concern May 27, 1931
 May 29, 1931—LOT 27 BLK J, Hayward Park, San Mateo. Edward C. Berts to whom it may concern..... May 21, 1931
 May 29, 1931—PART LOT 4 BLK 10, Menlo Oaks. Henry Kangieser to Paul R Smith..... May 27, 1931
 117, South San Francisco. Keran Robson to Carl Carson..... May 23, 1931
 May 25, 1931—LOT 8 BLK 24, Millbrae Highlands. Elias Vigen to whom it may concern..... May 23, 1931
 May 25, 1931—PART LOT 1 BLK 11 Burlingame Land. Dorothy M Crawford to G W Williams Co..... May 23, 1931
 May 26, 1931—LOT 32 BLK 5, Vista Grande. Maurice Fosch to Ford Smith..... May 23, 1931

May 26, 1931—PART LOT 4 BLK 24, Oakwood Manor. Frank J Wolfrath et al to whom it may concern..... May 21, 1931
 May 27, 1931—PART LOTS 2 AND 3 Blk 4, East San Mateo. E D Ward to whom it may concern..... May 26, 1931
 May 27, 1931—LOT 8 BLK 27, Millbrae Highlands. Arne M Arnesen to whom it may concern..... May 27, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded Amount
 May 26, 1931—LOT 24 BLK 1, Part-ridge Sub. Tilden Lumber Co vs T C Pitts\$149.06
 May 27, 1931—LOT 7 BLK 20, East San Mateo. Charles C Curtis vs Morris B. Lukens et al.....\$145
 May 29, 1931—LOTS 9 AND 10 BLK 5, San Bruno. W L Hickey et al vs Francis E Sutherland et al.....\$293

RELEASE OF LIENS

SAN MATEO COUNTY

Recorded Amount
 May 26, 1931 —LOCATION NOT Given. San Carlos Feed & Fuel Co; Paul Saunders; Superior Tile Products Co; D & S Lumber Co; Frank Portman to Carl Eiden.....
 May 28, 1931 — LOCATION NOT Given. C C Sayre, S. F. M. McNulty, S. F. to L R Milne et al.....
 May 29, 1931 — LOCATION NOT Given. Tilden Lumber Co to T C Pitts\$

BUILDING CONTRACTS

SANTA CLARA COUNTY

RESIDENCE
LOTS 14 AND 15, North Glen Residence Park Addition No. 1, Northern Road, San Jose. All work for one-story frame and stucco residence and garage. Owner—E. R. Buchser, San Jose. Architect—Wolfe & Higgins, Realty Bldg., San Jose. Contractor—Thomas H. Herschbach, Willow Glen. Filed May 26, '31. Dated May 26, '31. Upon recording contract.....\$2925 By conveyance of Lots 1 to 10, Herschbach's Sub. of North Glen Park 6150 Conveyances of Lots 11, 12 and 13, do..... 1345 **TOTAL COST, \$10,020**
 Bond, \$10,020. Surety, Hartford Accident & Indemnity Co. Limit, on or before Dec. 1, 1931. Forfeit, none. Plans and specifications filed.

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, 2-story and garage, \$7700; No. 454 Washington Ave., Palo Alto; owner, L. Yancy; contractor, W. F. Goodenough, 310 University Ave., Palo Alto.
RESIDENCE, stucco, one-story and garage, \$19,300; No. 2015 Cowper St., Palo Alto; owner, Cleveland Smith; architect, Treichel & Good-paster, 1540 San Pablo Ave., Oakland.
RESIDENCE, frame and stucco, 2-story, \$12,000; No. 1111 Hamilton Ave., Palo Alto; owner and builder, W. F. Klary, Menlo Oaks Drive, Menlo Park.

BUILDING PERMITS

SAN JOSE

ADD to frame residence, \$1210 No. 447 E-St. John St., San Jose; owner, Ralph De Lear, Premises; contractor, C. A. Higgins, 342 Spencer St., San Jose.
ALTER and repair frame and corrugated iron warehouse, \$1000; S. P. right-of-way and Basset St., San Jose; owner, S. P. Railway Co.

BUILDING PERMITS

BURLINGAME

RESIDENCE, \$7000; Lot 32 Blk 50E4 Balboa; owner and builder, Gordon Hess, 1406 Burlingame Ave., Burlingame.
BUNGALOW, \$5000; Lot 22 Blk 39E3 Balboa; owner and builder, I. Sorensen, 1128 Lincoln Ave., Burlingame.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted
May 26, 1931—LOT 17 BLK 4, Los Altos Park, Los Altos. E K Ellisworth et al to whom it may concern.....May 25, 1931
May 26, 1931—LOT 13 BLK 124, Crescent Park No. 2, Palo Alto. Laura A Neff to whom it may concern.....May 22, 1931
May 26, 1931—S ST. JAMES' ST. 45.50 E Ninth St., San Jose. Minnie Grogstein to whom it may concern.....May 25, 1931
May 27, 1931—EPCI SW LINE LOT 34, 193.31 NW from S Cor. Lot 34 Chace Villa Lots No. 3. Anna M Henry to whom it may concern.....May 25, 1931
May 27, 1931—LOT 16 BLK 5, Claremont Subd., San Jose. Carl L Bailey to whom it may concern.....May 27, 1931
May 28, 1931—LOT 4, Broadway Court, San Jose. W H Ackerman to whom it may concern.....May 28, '31
May 28, 1931—LOT 14 BLK 9, Seale Addn No. 2, Palo Alto. Carroll L Blacker to whom it may concern.....May 27, 1931
May 28, 1931—E EIGHTH ST. 137.50 N San Carlos St., San Jose. Melba E Hodges to whom it may concern.....May 23, 1931

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
May 26, 1931—LOT 15 BLK 4, Montecitos. Charles Kilty vs Rose Maggi et al\$28
May 28, 1931—S MINNESOTA AVE 135.67 E Washington Ave., San Jose. William & Russo vs Anna Oliver\$131.49

BUILDING CONTRACTS

MARIN COUNTY

RESIDENCE
SAUSALITO. Carpenter work. plastering, etc., for 2-story frame and single residence.
Owner—John R. Bruce, Sausalito. Designer—Charles Biel, 1196 Broadway, San Francisco.
Contractor—Moore & Madsen, 557 Market St., San Francisco.
Filed May 28, '31. Dated May 20, '31.
Frame up\$1750
Brown mortar on1750
When completed1750
Usual 35 days.....1750
TOTAL COST, \$7000

Bond, none. Limit, 100 days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
May 23, 1931—ROSS. Norman H Livermore to Young & Hornstreyer.....May 21, 1931
May 28, 1931—SAN ANSELMO. Alice L Croker and Mabel Siemer to whom it may concern May 25, 1931
May 28, 1931—FAIRFAX. Andrew Larson to whom it may concern.....May 23, 1931
May 23, 1931—MILL VALLEY. Elmer M Shapiro to Melvin Klyce.....May 15, 1931
May 25, 1931—FAIRFAX. Thos J Feeley to whom it may concern.....May 23, 1931
May 26, 1931—MILL VALLEY. Wesley A and Anita Russell to A C Wheeler.....May 26, 1931

BUILDING PERMITS

RICHMOND

COTTAGE, frame and plaster, 5-room and garage, \$4000; W 34th St., bet. Esmond and McBryde Sts., Richmond; owner, Edw. Berg, 629 56th St., Richmond; plans by Paul Anderson, 620 E-14th St., Oakland.
COTTAGE, frame, 4-room, \$2000; W 12th St., bet. Dunn and Hellings, Richmond; owner, Paul George, 543 4th St., Richmond; plans by Owner.
COTTAGE, frame and plaster, five-room and detached garage, \$4000; W Mount St., bet. Basset and Humboldt Sts., Richmond; owner, and contractor, D. W. Van Horn, 6094 Monadnock Way, Oakland; architect, L. Plag Hycé.
COTTAGE, frame and plaster, 5-room and detached garage, \$3500; S Clinton St., bet. 35th and 40th Sts., Richmond; owner, Margaret Bruce % 332 23rd St., Richmond; plans by Peppin & Johnston, 332 23rd St., Richmond; contractor, Peppin & Johnston, 332 23rd St., Richmond.
GRAIN storage bins, timber, \$1000; W 17th St., bet. Chanslor and S. F. R. R.; owner, Geo. Pritz, 30 17th St., Richmond; plans by Tandy & Theis, 1937 Gravin St., Richmond; contractor, Tandy & Theis, 1937 Garvin St., Richmond.
STATION, frame and plaster (ticket and passenger), \$3000; Ferry Road, Richmond; owner, Richmond-San Rafael Ferries; plans by Jas. L. McLaughlin Co.; contractor, Jas. McLaughlin Co.; contractor, Jas. San Francisco.

LIENS FILED

SONOMA COUNTY

Recorded Amount
May 23, 1931—E 80 FT. LOTS 2 & 4 Blk 4, Norwood Addn to Santa Rosa. A C Ingham vs Thomas M and Beulah M Daniels\$50 + \$6.00
May 25, 1931—E 80 FT. LOTS 2 & 4 Blk 4, Norwood Addn to Santa Rosa. Santa Rosa Department Store vs Thomas M and Beulah Daniels\$115.08 + \$3.00
May 25, 1931—LOT 8 BLK 35, McDonald's Addn to Santa Rosa. W H Wiggins vs W T Owen.....\$76.75 + \$6

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
May 26, 1931—LOT 7 BLK 14, Stones Addition to Salinas City. Chas C

Pontacq to Fred McCrary.....May 26, 1931
May 26, 1931—LOT 6 BLK 14, Stones Addition to Salinas City. Chas C Pontacq to Fred McCrary.....May 26, 1931
May 27, 1931—N 65 LOT 11 and S 5 ft. Lot 12 Blk 4, Gell, Lang & Kessel's Addition to Salinas City. Guy H Abbott to whom it may concern.....May 27, 1931
May 27, 1931—LOT 23 Map of Burbank & Deventorf's Villa Lot Addition to King City. T H Williams to whom it may concern.....May 25, 1931
May 28, 1931—CITY HALL SITE, City of Salinas. Salinas to W E Green.....May 18, 1931
May 29, 1931—LOT 12 BLK 23, Map of Monte Regio No. 1. Arthur A and Elve B Archart to W C Mann.....May 28, 1931
May 29, 1931—LOT 19 C. Tynan Sub-division. Clarence and Annie Tynan to S Trondhj-m.....May 28, 1931

LIENS FILED

MONTEREY COUNTY

Recorded Amount
May 23, 1931—LOTS 1, 2, 3 AND 4 Blk 65, Map of East Monterey. Frank V Lara vs William Forkner and Edith A Roberts.....\$52.30
May 27, 1931—LOTS 1, 2, 3 AND 4 Blk 65, Map of East Monterey. D B Denge vs Edith A Roberts; W F Forkner and Edris H Forkner and Elmer L Van Fossen.....\$96
May 27, 1931—LOTS 1, 2, 3 AND 4 Blk 65, Map of East Monterey. R B Denge vs Edith A Roberts; W F Forkner and Edris H Forkner and Elmer L Van Fossen.....\$145

BUILDING PERMITS

STOCKTON

DWELLING, rustic, 5-room and garage, \$1200; No. 1127 N-Yosemite St., Stockton; owner, H. H. Thurston, 433 E-Wyandotte St., Stockton.
DWELLING, 6-room and garage. \$3975; No. 652 North Regent St., Stockton; owner and builder, F. P. Dobson, 1150 W-Harding St., Stockton.
DWELLING, rustic, 7-room and garage, \$3000; No. 1220 Buena Vista Ave., Stockton; owner and builder, Richard Rebs, 527 W-Wilson Way, Stockton.
REPAIR dwelling, \$1500; 730 North Lincoln St., Stockton; owner, Mrs. Mary Elizabeth Brown Hammond, contractor, Wm. J. Scott, 1661 W-Poplar St., Stockton.

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
May 29, 1931—LOT 4 BLK 2, City Park Terrace, Stockton. J M Heltterbrand to J M Heltterbrand.....May 26, 1931

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
May 26, 1931—LOT 500, Swanston Park Unit No. 2, Sacramento. Norman L Apolonio to whom it may concern.....May 29, 1931
May 29, 1931—LOT 212 W & K Tract 33, Sacramento. Hollis C Hemenway to whom it may concern.....May 28, 1931
May 29, 1931—LOT 132, McKinley Blvd Tract No. 2, Sacramento.

Thomas A Scott to whom it may concern.....May 29, 1931
 HOUSE and garage, #090; No. 3632 Lincoln Ave., Sacramento; owner, H. L. Krueger, 3935 M St., Sacramento.
 HOUSE and garage, #4000; No. 1700 Fourth Ave., Sacramento; owner, E. Gilkey, 2419 23rd St., Sacramento.
 HOUSE and garage, #5000; No. 593 33rd St., Sacramento; owner, and builder, Jos. Pedone, 914 T St., Sacramento.
 RESIDENCE, re-stucco, #3000; No. 425 K St., Sacramento; owner, J. T. Stoll; contractor, Lindgren & Swinerton, Inc., California State Life Bldg., Sacramento, #3000
 May 29, 1931—LOT 16 BLK 24, Woodlake Addition, Theodore Zarzana to whom it may concern.....May 26, 1931

LIENS FILED

SACRAMENTO COUNTY

Recorded	Amount
May 28, 1931—LOTS 3, 4, 5, 6, 7, 8, 9 10 and 11 Alhambra Tract, Sacramento. Frank Querolo (as Sacramento Builders Supply Co), \$48,423; N C Louritzen (as Construction Materials Co), \$237,87 vs Edward Pease and Zue Gerry Pease.....	
May 27, 1931—LOT 64, McKinley Blvd. Tract, Sacramento. General Supply Co, Inc vs Veterans' Welfare Board of State of Calif and S McLaughlin.....	\$12.30

BUILDING CONTRACTS

FRESNO COUNTY

STATIONS
KETTLEMAN DISTRICT. All work for two compressor stations. Owner—Kettleman North Dome Assn. Architect—Not Given. Contractor—J. B. Gill Corp., Ltd. Filed —, Dated —, —. Monthly payments of..... 75%
 Usual 35 days..... 25%
TOTAL COST, \$25,000
 Bond, none. Limit, 40 days. Forfeit, plans and specifications, none.

BUILDING PERMITS

FRESNO

DWELLING and garage, \$—; No. 2946 Huntington St, Fresno; owner, Dan Chamberlin, 1213 Broadway, Fresno; contractor, H. P. Nelson, 822 S-Fifth St., Fresno.
DWELLING and garage, #4000; No. 512 Harvard Ave., Fresno; owner, Rex Sporeder, 3702 Huntington St, Fresno; contractor, M. Manogian, 2642 Olive St., Fresno.
DWELLING and garage, #4900; No. 3052 Van Ness Blvd, Fresno; owner and builder, A. R. Ecklund, Fresno.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 May 26, 1931—LOT 7 and Part Lots 6 and 8 Blk 2, Lesenby Terrace, Fresno. Manogeo Manogian to whom it may concern.....May 25, 1931

The Millwork Institute of California will hold a meeting at the Alexandria Hotel in Los Angeles June 12 and 13. A program is being arranged by Secretary Lester G. Stevens. The institute is now engaged in the publication of architectural frame details in the interests of trade extension.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from **Newton D. Cook, Room 715, 67 Post Street, San Francisco. (Phone Sutter 1684).**

R-3554-S CHIEF STATIONARY ENGINEER, preferably with technical training and well up on combustion theory, for responsible position in large steam plant. Must be a man with experience in actual charge of operation of steam power plants. Salary \$275 per month to start. Apply by letter with personal data, detailed experience and references. Location, Southern California.

R-3570-S SALES ENGINEER, preferably young E. E. graduate with sales personality and some experience, either in sales or operations, to sell induction motors. Personal interview in San Francisco required. Salary and expenses.

R-3518-S ASSISTANT PROFESSOR of Electrical Engineering, to teach fundamentals and laboratory with some advanced work. Prefer graduate with a record of successful teaching experience and, if possible, some practical experience. Salary \$2200-2400 for nine months, starting Sept. 1, 1931. Appointment for one year only with possibility of permanency. Apply by letter. Location, Southwest.

W-2678-C-S (K-365) PLANNING ENGINEER, technical graduate, American, not over 45, for research department. Duties will be to correlate personnel and equipment on the various research projects, to analyze the importance of each project to the manufacturing, commercial and other departments of the company and recommend priority of projects, and to observe progress of researches in process and make accurate reports to the Director of Research as to progress, methods employed and probability of successful consummation. Candidates must have had specific planning experience in indus-

try. Salary \$5000 a year or more. Apply only by letter. Location, East. **R-3575-S ASSOCIATE or FULL PROFESSOR** of Electrical Engineering, to carry on research work in agricultural engineering. Would not be required to do any teaching. Should be 35 to 40 years of age, exceptionally well qualified in mathematics and physics and preferably with an advanced degree in engineering. Apply by letter with full details of training and experience, and photograph. Salary \$3600-4800 per year. Permanent. Location, West.

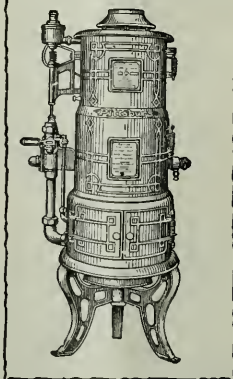
W-2785-C-S MEN in all parts of the country with both electrical and mechanical engineering background to handle sales of Photo Electric Control Units on a liberal commission basis. These units have a wide industrial application and the field for light-sensitive devices is rapidly increasing. Apply by letter. Headquarters, New England.

Sale of the four-story Builders' Exchange Building at the northwest corner of Hobart and Webster Streets, Oakland, for cash and other considerations totaling \$310,000, is announced by Herbert Beckwith, vice-president of the Builders' Exchange Holding Corporation. Miss Ella Jacobs of San Francisco, is the purchaser.

Farm lands at Oakdale and Lockford, Calif., are listed as part of the purchase price of \$310,000. The lands comprise thirty-three acres west of Oakdale, planted to almonds and 165 acres one mile west of Lockford, eighty of which are vineyard.

Beckwith announced that as a further consideration, the holding corporation took a ten-year lease on present headquarters of the Builders' Exchange on the first floor and mezzanine floor, paying \$78,000.

"We sold the building because the Builders' Exchange intends to separate itself from all commercial enterprises, such as building management, and adhere strictly to its function as a clearing house for building contractors," Beckwith said.



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Publication Office
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SAN FRANCISCO, CALIF., JUNE 13, 1931

Published Every Saturday
Thirty-fifth Year, No. 24

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Building and Engineering News

Devoted to the Architectural, Building, Engineering and Industrial Activities on the Pacific Coast

Issued Every Saturday

SAN FRANCISCO, CALIF., JUNE 13, 1931

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FOREIGN ENGINEERS GET TRAINING HERE

Engineers and highway superintendents from Pan-American countries are being trained in American road building methods through a scholarship plan supported by the American Road Builders' Association.

Two road builders from each of fifteen Pan-American countries will be appointed in 1931 for six months' study of American highway methods and equipment. These men are selected by the road department or commission of their native country to meet the following requirements: studies completed in an adequate school, under thirty years old, knowledge of English, good health, diligent, good character, and a serious intention to make road building their profession. They will study and travel under the supervision of the American Road Builders' Association.

After a course of study in the association, offices in which they become familiar with the extent and location of highway activities, the men visit state highway department's equipment and material manufacturing plants, and various federal, state, county and city road and street construction projects. The technical highway director of each country designates the class of work on which the student engineers specialize and complete reports are made by the students.

The men work in the various departments of road building operations and equipment manufacturing processes, in some cases, to become familiar with the details of the work and to obtain firsthand information about machines used.

A number of students are now in training and those that have completed the courses have returned to their native countries to assume responsible positions in highway departments, according to association officers. The successful operation of the training plan last year lead to its expansion to include more students from a larger number of countries.

CODE TO PERMIT BASEMENT GARAGES

Storage garages in the basements of hotels and apartments are permitted by a change made in the city building code of Memphis as an aid to the solution of the parking problem. As soon as the change in the code was made the Hotel Gayoso announced that it would equip 75 apartments in the hotel with garage space in the basement.

By the terms of the code garages must be fireproof and no gasoline will be permitted to be kept in them. Walls ceilings and floors must be of concrete. A blower system for air circulation with an alarm bell which will ring when the circulation stops and a sprinkler system with an alarm bell are required.

Local B and L Men Named on Committees

Several of San Francisco's leading building and loan executives have been named on important committees of the California Building-Loan League by C. H. Wade, Los Angeles, newly elected head of the state organization, it was announced yesterday by Neil Davis, secretary.

A. E. Falch, secretary, Pacific States Savings and Loan Company, has been named chairman of the Taxation Committee and Milo R. Robbins, director of several local associations, chairman of the Legal Committee, R. E. F. Randolph, Pacific States and Wm. E. Bouton, secretary, Standard Building and Loan Association, have been placed on the Finance Committee, with the former as chairman. T. W. Dahlquist, Pacific States Savings, was reappointed as a member of the Legislative Committee and R. C. Hamilton, Jr., vice-president, San Jose Pacific, and Charles G. Hinds, secretary, Home Mutual Deposit-Loan Company, were given posts on the Public Relations Committee, with Hamilton as chairman.

Robert S. Odell, president, Pacific States Savings and Loan Company, was elected a member of the Executive Committee of California Building Loan League, at their recent annual convention, held at Del Monte. If the usual practice of elevation of officers is followed, Odell will progress to the presidency of the state organization.

CORRECTION

In the May 29th issue of Building and Engineering News, reporting the death of the widow of Chas. Peter Weeks, noted San Francisco architect, Mr. Weeks was reported as being the architect for the Fairmont Hotel in San Francisco. This is in error. Plans for the Fairmont Hotel were prepared by Reid Bros., architects of San Francisco.

Concrete Deck Pier Patent Basis of Suit

Alleged infringement of the so-called Ferguson patent on the reinforced concrete deck type of pier, in which the pier structure is tied to the land by reinforced concrete beams, is the basis of claims amounting to \$4,090,200 against the United States government, filed in the Court of Claims at Washington, D. C., by Wm. S. Ferguson, Gaylord W. Feaga, Jas. D. Carey, Joseph S. Ruble, William S. Ferguson, trustee, and the Dock & Terminal Engineering Co., all of Cleveland, Ohio. The claims cover use of various piers constructed in the United States and two in the Panama canal since 1925. The Ferguson patent was granted in 1914.

Suit for alleged infringement is now pending against the city of Long Beach, Calif., on the new municipal pier in the outer harbor, which has not yet been completed.

Theory and Practice With Building Lines

Experience in Connecticut with building lines established under eminent domain—not setbacks laid down in zoning ordinances—indicates that there is a distinct field of usefulness for them. So stated Herbert S. Swan, consultant in city planning, at the meeting of the City Planning Institute. Building lines appear to be the only hope for securing wider streets in many communities. Some of the pertinent points brought out in Mr. Swan's conclusion as to the situation in Connecticut, where numerous cities have had long and varied experience with boundary lines, are as follows:

Building lines should conform to street width laid down in a major street plan. No existing building lines should be vacated until such a plan has been worked out. Building lines as an intermediate means of ultimately obtaining wider streets should be limited in their application to streets already laid out. They should not be used to protect front yards, this being the province of zoning. Building lines and zoning regulations should complement one another. Cities with building lines will be enabled easily to remake their horse-and-buggy thoroughfare plan to meet the demands of the motor age, whereas those with no building lines are finding themselves two generations behind the times.

YEAR'S WAGE LOSS TO LABOR IS TWO BILLION AND HALF

An estimate that a combination of wage cuts, part-time employment and unemployment cost workers more than \$2,500,000,000 in wages during the first months of 1931 is announced by the American Federation of Labor.

Both President Green of the federation and Secretary of Labor Doak said separately, however, that the losses due to wage cuts—known to have affected more than 125,000 workers in factories alone—had not been caused by large employers of labor.

"The wage standard has been holding up well," Doak said, "and I believe the larger firms should be congratulated. Although nearly 200 establishments employing 23,000 workers cut wages in April, this is a small percentage compared to the total number of firms and workers throughout the country. The wage sniping appears to be of a local nature."

Agreeing that large employers "are in general maintaining wage rates and intend to continue," Green nevertheless reiterated a recent statement that workers should organize to combat any cut—striking if necessary.

Both Green and Doak attributed the general upholding of wage standards by the larger firms at least in part to President Hoover's conference in December, 1929, with prominent industrial and labor leaders.

AMENDMENTS TO CONTRACTORS' LICENSE LAW OF CALIFORNIA

Two bills amending the contractors' registration law of California—Assembly Bill No. 1867 and Senate Bill No. 732—have received the signature of Governor James Rolph.

Assembly Bill 1867 is an emergency measure providing for financing the activities of the Registrar of Contractors and is effective with the signature of the Governor. It increases the license fee from \$5 to \$10 per year.

Senate Bill 732 amends the law to make it more effective.

Following is the text of the two measures:

Assembly Bill 1867

Section 1. Sec. 5 of Chapter 791, Statutes of 1929, entitled "An act providing for the registration of contractors," etc., approved June 13, 1929, is hereby amended to read as follows:

Sec. 5. To obtain a license under this act, the applicant shall submit, on such forms as the registrar shall prescribe, and in accordance with such rules and regulations as may be adopted by the registrar, an application in writing for such license containing the statement that the applicant desires the issuance of a license under the terms of this act. The information contained in such application forms shall include a complete statement of the general nature of the applicant's contracting business, and in addition, if the applicant is an individual, his name and address; if a copartnership, the names and addresses of all partners, and if a corporation, association or other organization, the names and addresses of the president, vice-president, secretary and chief construction managing officer or officers, together with all other information which may be deemed necessary by the registrar.

No license shall be issued until the registrar of contractors has satisfied himself upon evidence presented and recorded as to the integrity of the applicant and that said applicant is qualified in the following respects to hold a license:

(1) That the applicant is of good reputation;

(2) That the applicant has never been refused a license or had a license revoked for reasons that should preclude the granting of the license applied for; provided, that no license shall be refused by the registrar of contractors without providing an opportunity to the applicant within 30 days to be heard and produce evidence in support of his application.

It shall be the duty of the registrar of contractors, with the approval of the director of the department of professional and vocational standards, to adopt and promulgate such rules and regulations as he may deem necessary to carry out the provisions of this act. Said application shall be accompanied by a fee of ten dollars, and not to exceed 5 per cent of said license fee may be expended by the registrar for publicity and educational purposes in connection with the administration of this act. The fees received under this act shall be deposited in the contractors' license fund, which fund is hereby created. All moneys in said fund are hereby appropriated for the purpose of carrying out the provisions of this act.

Sec. 2. Inasmuch as this act concerns and is necessary to the immediate preservation of public health and safety for the reason that it is imperative, at the earliest possible date,

to provide adequate funds for the administration and enforcement of the provisions of the act hereby amended, the present funds therefor being insufficient and the existing rate of license being inadequate, and the rate in this act fixed will make possible the accomplishment of the intended object, this act shall take effect immediately.

Senate Bill No. 732

An act to amend Sections 2, 3, 4, 6, 7, 8, 9, 10, 11 and 12 of and to add new sections numbered 9A and 10A, to Chapter 791, Statutes of 1929, entitled "An act providing for the registration of contractors, etc.," approved June 13, 1929.

Section 1. Section 2 of Chapter 791, Statutes of 1929, entitled "An act providing for the registration of contractors, etc.," approved June 13, 1929, is hereby amended to read as follows:

Sec. 2. This act shall not apply to: (a) An authorized representative or representatives of the United States government, the state of California, or any incorporated town, city, county, city and county, irrigation district, reclamation district or other municipal or political corporation or subdivision of this state;

(b) Any construction or operation incidental to the construction and repair of irrigation and drainage ditches of regularly constituted irrigation districts, reclamation districts, or to farming, dairying, agriculture, viticulture, horticulture, or stock or poultry raising, or clearing or other work upon land in rural districts for fire prevention purposes;

(c) Trustees of an express trust, or officers of a court, providing they are acting within the terms of their trust or office, respectively;

(d) Public utilities operating under the regulation of the state railroad commission on construction work incidental to their own business; or any construction, repair or operation incidental to the discovering or producing of petroleum or gas, or the drilling, testing, abandoning, or other operation of any petroleum or gas well, when performed by an owner or lessee;

(e) Sole owners of property building thereon dwellings intended for the use and occupancy of such owners and their families;

(f) Any work or operation on one undertaking or project by contract or contracts performed directly or indirectly by one contractor, and the aggregate contract price for which, for petroleum or gas, or for the drilling, testing, abandoning, or other work or operations being considered as casual, minor, or inconsequential nature, provided, however, that the limitations of this section shall not apply in any case wherein the work of construction is only a part of a larger or major operation, or in which a division of the operation is made in contracts of amounts less than two hundred dollars for the purpose of evasion of this act, or otherwise; and provided further that the provisions of this section shall not apply to any work or operation connected with the sale or installation of any finished product, material, or article of merchandise, which is not fabricated into and does not become a permanent fixed part of the structure.

Sec. 2. Section 3 of Chapter 791, Statutes of 1929, is hereby amended to read as follows:

Sec. 3. A contractor within the meaning of this act is a person, firm, copartnership, corporation, association or other organization, or any combination of any thereof, who for either a fixed sum, price, fee, percentage, or other compensation, other than wages, undertakes or offers to undertake with another or purports to have the capacity to undertake with another, to construct, alter, repair, add to, or improve any building, highway, road, railroad, excavation or other structure, project, development, or improvement, other than to personally, or by any part thereof; provided, that the term contractor, as used in this act, shall include sub-contractor, but shall not include any one who merely furnishes materials or supplies without fabricating the same into, or consuming the same in the performance of, the work of the contractor as herein defined.

Sec. 3. Section 4 of Chapter 791, Statutes of 1929, is hereby amended to read as follows:

The administration of this act is hereby placed under the jurisdiction of the director of the department of professional and vocational standards, who shall have the power to procure such equipment and records and to appoint and fix the duties of such assistants as may be necessary to carry out its provisions, including a registrar of contractors (which office is hereby created), a deputy registrar of contractors, a secretary and investigators, who shall consult with the approval of the director of finance shall be fixed by, and who shall hold office at the pleasure of, the director of the department of professional and vocational standards. The positions of registrar, deputy registrar, secretary and two investigators are hereby declared to be exempt from the provisions of the civil service law.

Sec. 4. Section 6 of Chapter 791, Statutes of 1929, is hereby amended to read as follows:

Upon receipt of said application and of said fee, it shall be the duty of the registrar forthwith and within ten days to issue a license to the applicant permitting him to engage in business as a contractor under the terms of this act for the balance of the fiscal year following the application, provided the applicant has furnished such complete information and in such manner as may be required by the registrar in accordance with Section 5 of this act. The license issued under this act shall be signed by the licensee, shall be non-transferable, and shall be displayed in his main office or chief place of business, and satisfactory evidence of the possession thereof shall be exhibited by him upon demand.

Sec. 5. Section 7 of Chapter 791, Statutes of 1929, is hereby amended to read as follows:

All licenses issued under the provisions of this act shall lapse and expire on June 30th of each year. Application for renewal of a current license at any time during June of any year shall authorize operation as a contractor of such licensee until actual issuance of such renewal license for the ensuing fiscal year. All applications for renewal of license shall be filed with the registrar of contractors not later than July 30th of each year; otherwise, such licenses shall be ipso facto suspended and shall be renewable only on the payment of

a fee of twenty dollars and unless so renewed shall remain suspended during the remainder of the fiscal year. After a license has been suspended as in this section provided, for the period of one or more fiscal years, a new application for license must be made and a new license issued in accordance with the provisions of Section 5 of this act. All licensees shall report all changes of personnel and addresses under this act within 30 days or some lesser time, on such forms as the registrar shall provide in such cases.

Sec. 6. Section 8 of Chapter 791, Statutes of 1929, is hereby amended to read as follows:

Sec. 8. The registrar shall maintain at the office of the department of professional and vocational standards in Sacramento, open to public inspection during office hours, a complete indexed record of all applications and all licenses issued and of all renewed licenses under this act, and of all terminations, cancellations and suspension thereof upon receipt of the sum of 50 cents; and such certified copy shall be received in all courts and elsewhere as prima facie evidence of the facts stated therein.

Whenever funds are available for that purpose, it shall be the duty of the registrar to furnish a list of contractors, with their addresses, registered under the provisions of this act, and all licenses issued, suspended or revoked, to such public works and building departments and public officials or public bodies as in his judgment may be deemed advisable.

Said lists of registered contractors, and of licenses issued, suspended or revoked, shall, whenever funds are available for that purpose, be furnished to the public officials hereinbefore enumerated at intervals of 90 days or less; such intervals to be as frequent as the registrar shall deem necessary. Copies of said lists may also be furnished by the registrar upon request to any firm or individual upon payment of such reasonable fee or fees as may be determined by the registrar.

Sec. 7. Section 9 of Chapter 791, Statutes of 1929, is hereby amended to read as follows:

Sec. 9. The registrar of contractors may upon his own motion, and shall upon the verified complaint in writing of any person, investigate the actions of any contractor within the state and shall have power to temporarily suspend or permanently revoke a license issued under the provisions of this act if the holder, while a licensee hereunder is guilty of or commits any one or more of the following acts or omissions:

(1) Abandonment of any contract without legal excuse;

(2) Diversion of funds or property received for prosecution or completion of a specific contract, or for a specified purpose in the prosecution or completion of any contract, and their application or use for any other contract, obligation or purpose.

(3) Fraudulent departure from or disregard of plans or specifications in any material respect, without consent of the owner or his duly authorized representative.

(4) Willful and deliberate disregard and violation of the building code of the state, or of any political subdivision thereof or of the safety laws or labor laws of the state.

(5) Failure to keep records showing all receipts and disbursements of the licensee in all of his transactions as a contractor as that term is defined in this act.

(6) Misrepresentation of a material fact by applicant in obtaining a license.

(7) The doing of any willful fraudulent act by the licensee as a contrac-

tor in consequence of which another is substantially injured.

Sec. 8. A new section is hereby added to Chapter 791, Statutes of 1929, to be numbered 9a, and to read as follows:

Sec. 9a. Upon the filing with the registrar of a verified complaint charging a licensee with the commission within two years prior to the date of filing of such complaint of any act or cause for suspension or revocation of license, the registrar may forthwith issue a citation directing the licensee, within 10 days after service of the citation upon him, to appear by filing with the registrar his verified answer to the complaint, showing cause, if any he has, why his license should not be suspended or revoked. Service of the citation upon the licensee shall be fully effected by mailing a true copy thereof, together with a true copy of the complaint, by United States registered mail in a sealed envelope, the postage fully prepaid thereon addressed to the licensee at his latest address of record in the registrar's office. Service of said citation shall be complete at the time of said deposit subject to the provisions of Section 1013 of the Code of Civil Procedure. Failure of the licensee to answer shall be deemed an admission by him of the commission of the act or acts charged in the complaint and thereupon the registrar shall have power forthwith to suspend or revoke the license.

Upon the filing of the answer, the registrar shall fix a time and place for the hearing and give the licensee and the complainant not less than five days' notice thereof. The notice may be served by depositing in the United States mail a true copy of the notice enclosed in a sealed envelope with postage thereon fully prepaid and addressed to the licensee and to the complainant, respectively, at his last known address. With the notice to the complainant there shall be attached or enclosed a copy of the answer. If either party has appeared by counsel, the notice shall be given, in like manner, to counsel instead of to the party.

Upon the hearing, the registrar shall hear all relevant and competent evidence offered by the complainant and by the licensee, and shall have power to continue the hearing from time to time as in his judgment may be necessary or proper. After the hearing is concluded and the matter submitted, the registrar shall, within 10 days after such submission, render his decision in writing, suspending or revoking the license or dismissing the complaint, with a brief statement of his reasons therefor. He shall give to the complainant and the licensee, or their respective attorneys, notice of the decision, by mail, in the same manner as prescribed herein for the giving of notice of hearing. A decision of the registrar suspending or revoking a license shall not take effect until 20 days after such service of notice of the decision.

Within 20 days after such service of notice of the decision of the registrar suspending or revoking a license, the licensee may apply for a rehearing by filing with the registrar his petition in writing therefor. Within five days after such filing, the registrar shall cause notice thereof to be served upon the complainant by mailing a copy of the petition for rehearing to the complainant in the same manner as herein prescribed for the giving of notice of hearing.

The filing of a petition for rehearing as herein provided shall not suspend the operation of such act and permits the licensee to continue to do business as a contractor pending decision or granting of the petition, and, if the petition be granted, pending de-

cision of the registrar upon rehearing.

In his order granting or denying a rehearing, the registrar shall set forth a statement of the particular grounds and reasons for his action on the petition and shall forthwith mail a copy of the order to the parties who have appeared in support of or in opposition to the petition for rehearing. If a rehearing is granted, the registrar shall set the matter for further hearing and hearing on the petition, given in the same manner as prescribed herein for the giving of notice of an original hearing.

Within 10 days after submission of the matter upon rehearing, the registrar shall render his decision in writing and give notice thereof in the same manner as of a decision rendered upon an original hearing.

Within 30 days after service of notice of the order denying the rehearing or of the decision rendered upon the rehearing, any party aggrieved by the order or decision of the registrar may appeal therefrom to the superior court of the state of California, in and for the county or city and county in which the person affected by such decision resides or has his place of business under the terms of this act, by serving upon the registrar a notice of such appeal and by depositing with the registrar a certified transcript of all the papers on file in his office affecting or relating to such decision and all the evidence taken on the hearing and paying therefor at the rate of 10 cents for each folio of the transcript and one dollar for each folio of the transcript. Thereupon, the registrar shall, within 30 days, make and certify such transcript, and the appellant shall, within five days after receiving the same, file the same and the notice of appeal with the clerk of said court. Upon the filing of such appeal, the court shall be limited to a consideration and determination of the question whether there has been an abuse of discretion on the part of the registrar in making such decision.

When an appeal is taken to said superior court from the order or decision of the registrar suspending or revoking a license, such order or decision shall remain in effect pending final determination of the matter, unless the appellant shall file with the court a bond in a sum to be fixed by the court or by the judge thereof in favor of the registrar, as the superior court of California and conditioned upon the faithful performance of all the obligations of said appellant as a contractor, pending the final determination of the matter on appeal and until the fulfillment by the contractor of any condition imposed by such order or decision of the registrar. Such bond shall be for the benefit of any person having dealings with said appellant in his capacity as a contractor, and any person so dealing with said appellant in such capacity shall have the right to commence and maintain an action thereon in his own name against such contractor and his sureties on said bond.

If such superior court shall determine that a contractor's license should be suspended or revoked, it shall by its judgment suspend or revoke such license. The decision of such superior court shall within 10 days after the entry of any such judgment on appeal transmit to the registrar, by United States mail, a notice containing information as to the affirmation, modification or reversal of the order or decision of the registrar on such matter.

The suspension or cancellation of license as in this act provided may also be embraced in any action otherwise proper in any court involving the licensee's performance of his legal obligation as a contractor.

(Continued on page 7)

THE OBSERVER

What He Hears and Sees on His Rounds

Wage cuts affecting builders on the Decatur, Ind., post office and the U. S. Veterans' Hospital at Tucson, Ariz., are responsible for new controversies reported to the U. S. Conciliation Service, according to press dispatches from Washington, D. C.

The U. S. Department of Labor finds that employment increased 2/10 of 1 per cent in April while at the same time wages fell 1.5 per cent. Workers in 11 major industries increased by \$248 while payrolls in the same industries decreased by \$1,766,752.

The first criminal conviction in Oregon for violation of the engineers' registration law was secured in Multnomah County on May 14, when Andra MacLean, of Portland, Ore., withdrew a plea of not guilty and entered a plea of guilty of practicing engineering without a license. A \$25 fine was imposed.

A suit said to involve millions of dollars in patent royalties has been filed in federal court at Carson City, Nevada, by the Caterpillar Tractor Company and Pliny E. Holt, against the International Harvester Company and the International Harvester Company of America. The complaint alleges the plaintiffs own sixteen patents for the track laying device used by tractors and that the International Company has infringed on these patents. A restraining order and accounting, covering a long period of years, is asked.

Rep. Hamilton Fish of New York has protested to President Hoover against the underpayment of workers on barracks and other improvements at the United States military academy, West Point. Representative Fish said that the laborers are being paid 40 per cent below the standard union scale.

Rate reductions amounting to more than \$20,000,000 have been ordered by the Railroad Commission during the past four years, according to a report released recently. During the same period consumers have benefited to the extent of \$4,000,000 by voluntary reductions in utility rates.

Aliens will not be employed and Fresno county materials will be given preference in the construction of the \$350,000 crippled children's annex of the Fresno county general hospital, bids for which will be asked shortly by the Fresno county supervisors. Such provisions will be incorporated in the specifications. Only naturalized persons who have resided in California a year and in Fresno county six months will be employed in the work. Furthermore, no laborer will be allowed to work more than eight hours, and if this rule is violated, the contractor will forfeit to the county \$10 per day per laborer working over the eight-hour limit.

A survey to determine present practice in various plants and industries with respect to the speeds of driving and driven machinery is being made by means of a questionnaire by a committee on speeds of machinery working under the procedure of the American Standards Association.

Estimating classes for all engaged in the construction business have been started at Portland, Oregon, by the Builders' Exchange of that city. The classes were organized by C. C. Weideman of the Oregon Building Congress and will be held for three hours on the evenings of Tuesday and Thursday of each week. The 12 hours in the course will cost \$1.50 per person. Charles Burton is instructor. Classes are held in the Builders' Exchange rooms.

At the recent convention of the Oregon State Association of Master Plumbers, the public utility sale of appliances was condemned in a resolution declaring the practice unfair and urging that the matter be brought before state governmental authority.

The California State Department of Public Works, Division of Architecture, has under actual construction in the field approximately 50 major projects representing a total valuation of \$4,514,475. This construction valuation will provide employment for 1977 persons over a period of ten months, it is announced by Geo. B. McDougall, state architect.

Los Angeles seeks the 1932 annual convention of the National Association of Real Estate Boards. The southern metropolis points out that the Olympic Games will be held in that city next year beginning July 29th for a sixteen day period.

The industrial commission of Utah has adopted a building safety code for the state, to become effective July 1. The code prescribes regulations requiring modern and safe practice in building or demolition work and fixes penalties of \$50 to \$5,000 for violations.

Plumbers should sell themselves to the public in the opinion of R. D. Minkler, newly elected president of the Washington State Association of Master Plumbers. He cited an example of successful newspaper advertising by a plumber which read:

"Life's greatest blessing is health. The world's greatest progress has been in the Science of Sanitation. The plumber ranks in importance with the doctor or teacher. His calling is more than a vocation—it is a profession whose purpose is bringing more comfort and happiness into the lives of all people."

Too few members of the building industry realize the importance of going out for business, of sound salesmanship, of careful solicitation.

In a recent radio broadcast over the wires of the plumbing and heating NEC nation-wide hook-up to all membership, A. R. Herske, sales promotion manager for the American Radiator and Standard Sanitary Manufacturing Company, offered some advice which would profit almost every man in the construction industry. He said:

"This is the time to stop waiting for phone calls and start making home calls. It isn't a question of whether or not you like this modern method of selling. Today you either have to go out FOR business or go out OF

business. It's personal contact today that gets the contract, so let's quit worrying about meeting competition and start meeting prospects and remember, it can be done because it has been done."

Chambers of Commerce in leading cities of Oregon, Idaho and Washington have expressed a willingness to co-operate with the construction and industries committee of the Spokane Chamber in a program to decentralize the supervising architectural department in Washington, D. C.

J. I. Kimm, chairman of the construction and industries of the Spokane chamber of commerce, said that a meeting of representatives from the three northwestern states probably will be held in September, to adopt a program affecting the architectural and material phases of federal building projects.

"We believe local architects should be employed when buildings are erected in the various cities, and further believe that local materials should be used in such buildings, he added."

The Convention of the National Association of Real Estate Boards at Baltimore last week authorized its president to confer with governmental authorities and request a study of the subject of establishing through federal legislation a system permitting the discount of mortgages on urban residences, and a study of long term and short term credit as applied to home financing. For the purpose solely of initiating discussion the President of the National Association of Real Estate Boards was authorized to tender the services of five realtors for membership on and consultation with the committee to which these matters may be referred by governmental authorities and to furnish for purposes of investigation such tentative proposals as may secure the approval of the Board of Directors of the National Association of Real Estate Boards. No specific plan for a cen-

Declaring that wages must be reduced as a result of the present depression, Clarence F. Hamsher, president of the First National Bank of Los Gatos, in the current issue of "Bank Service," a house organ of the bank, asserts that a "new order of things is in adjustment, and the return from labor as well as the return on capital, as represented by the smallest shareholder in the largest corporation, must undergo some readjustment."

Writing at length on "When are conditions going to get better?" the bank president in his leading article, says in part as follows:

As production by factory is reduced the cost of production per unit increases unless wages are reduced, and as wages are reduced, so is the purchasing power of individuals curtailed.

It is a vicious circle, but as commodity prices have come down, the price of labor must come down proportion.

One thing absolutely certain is that a farmer cannot continue to pay the price he has been paying for common labor this year or for several years, until he can get a more adequate return for that which he produces.

We are passing through, and we will pass through it in due course of time, the most severe depression in history and it exists in the same United States, but all over the world.

Economic changes are in the making. A new order of things is in adjustment, and the return from labor as represented by the smallest shareholder in the largest corporations, must undergo some readjustment.

ALONG THE LINE

W. K. Adams of Redding has been appointed city engineer of Redding to succeed Chas. F. Mau, resigned. Adams was formerly connected with the county surveyor's office of Shasta county.

Clyde Jenken has been appointed city engineer of Huntington Beach, succeeding Merwin Bosson, resigned. Jenken was formerly city engineer of Santa Ana. Harry Oyermeier, who has been acting city engineer of Huntington Beach, will be Jenken's chief assistant.

R. H. Ruiter, temporary assistant building inspector at Sacramento for the past two years, will be appointed in a permanent capacity to the post by City Manager Jas. S. Dean. The municipal civil service commission has certified Ruiter and two other men as being eligible.

August E. Koll, former city councilman of Santa Clara, has been appointed building and plumbing inspector of that municipality, succeeding T. T. Cunningham who resigned last month.

George Ellinwood Finnell, 37, highway contractor of Sacramento, was killed last Monday when his automobile struck loose earth and overturned four times on the road near Vallejo. He was traveling alone from the bay region to Sacramento.

Finnell was a captain in the World War and was prominently identified with clubs and fraternal organizations in Sacramento.

Surviving him are his widow, Eliza; two children, Janet and George Ellinwood Finnell Jr., and his mother, Mrs. Genevieve Finnell.

Alfred I. Coffey, San Francisco architect, has forwarded a communication to the Santa Clara county supervisors asking that he be considered in the selection of an architect to prepare plans for the new county courthouse to replace the structure recently destroyed by fire.

The body of Joseph A. Close, an American engineer during the canal construction days, was found last Monday on his Gatun lake (Panama City) plantation with the head almost severed, apparently by the stroke of a bolo delivered from the rear. Panama police said they had no clue to the identity of the slayer. The slain man's wife and sisters are now on a cross-country tour of the United States from the west coast.

Ted Helmle has purchased the Lodi Hardware Store at 27 South School St., Lodi, from the Hardware Stores Corporation. Helmle managed the store for the past seven years.

R. L. Mullinix, formerly associated with J. J. Dunbar in the plumbing business at Sonoma, Calif., has established his own shop in Spain street, that city.

W. T. Maitling, formerly connected with the Irving Kelley Plumbing Shop at King City, Calif., has opened the Star Sheet Metal Works in Bassett St., that city.

Electric Equipment Co., operated by W. I. Rice and O. H. Linde, has opened new sales quarters at 3 West Pine Street, Lodi. The concern carries a complete line of electrical products.

BUILDING OFFICIALS SEEK NEW MEMBERS

Naming a supervising committee of four building inspectors and a solicitation committee of six others and planning to appoint a group of building material men to work with them, S. P. Koch of Berkeley, Central District Chairman of the Pacific Coast Building Officials' Conference, has launched a membership drive for the Conference.

District inspectors appointed to the general district steering committee are: Victor Becker, Palo Alto; R. H. Raret, Piedmont; A. J. Hurley, Richmond and John B. Leonard, San Francisco. The subcommittee consists of: A. J. Hurley, Richmond; W. A. Curtis, Stockton; C. L. Baker, Modesto; Victor Becker, San Rafael; M. C. Woodruff, San Jose, and H. C. Weisenburger, Watsonville. In addition to supervising the committee of building material men, the above inspectors are responsible for obtaining Active Participating (city) memberships in the Conference from their district.

A. C. Horner, western manager, National Lumber Manufacturers' association, San Francisco, has been named general chairman of the membership committee working under supervision of the inspectors. In Mr. Horner's absence on a business trip, Koch postponed any announcement of appointments to the building material men's subcommittee. The material men are to secure Associate and Subscribing members from building material manufacturers, dealers and trade associations.

\$5,000,000 BRIDGE PLANS ARE COMPLETE

The Narrows Bridges Co., Ltd., of Vancouver, B. C., has completed plans for a high-level suspension bridge, carrying four streambeds, to cross Burrard Inlet over the First Narrows, the gateway to Vancouver's Harbor.

The plan is an alternative to building a tunnel under the channel, which is considered impractical at the moment. The estimated cost of the bridge is \$5,000,000. It will leave a free navigation channel of 1,400 ft. for marine traffic and will clear high water by 200 ft.

Construction of the bridge is in line with recommendations by a royal commission which considered the subject in 1927.

OREGON ARCHITECTS TO GET STATE WORK

That architectural work, affecting state buildings erected in the future, will be distributed among individuals and firms which heretofore have not been favored with state contracts was indicated by a statement made by Governor Meier of Oregon last week.

The statement was made by the governor while the state board of control was considering the remodeling of the state supreme court offices under a \$5000 appropriation authorized by the 1931 legislature. Knighton & Howell, Portland architects, have received the lion's share of these contracts, and have prepared the plans and specifications for virtually all of the latter state buildings erected in Oregon during the past ten years.

As a result of the governor's statement the work of remodeling the supreme court offices was deferred temporarily pending receipt of proposals from a large number of architects located in different parts of the state. These proposals probably will be considered by the state board of control at a meeting to be held early next week.

SEATTLE CEMENT PLANT IS LEASED

A deal has been completed by the Superior Portland Cement Company whereby that concern leases for a term of years, with option of a further lease, the plant of the Pacific Cement Company at Seattle.

The deal was struck about through a survey of the cement situation in the Northwest by Vice-President Crowell of Atlas Portland Cement Co., at the instigation of Tucker, Hunter Dulin & Co., and of White-Weld & Co., of New York.

Pacific Portland Cement Company, a subsidiary of the Pacific Coast Cement plant, located at Cement, Wash., has a capacity of 1,000,000 barrels, while the Superior Portland Cement plant, located at Cement, Wash., has a capacity of 1,700,000 barrels.

The transaction just completed will give Pacific the advantage of Superior management, while Superior, on the other hand, will be able to ship its business from the most convenient point.

SEEK WITHDRAWAL OF SCHOOL CONTRACT

Cancellation of the contract for construction of the Rogers high school at Spokane, Wash., is being asked in petitions filed with the school board. The petitions were presented on behalf of organized labor.

"The investigation preceding the filing of these petitions was thoroughgoing and charges that the contractor, J. J. Lohrenz, is violating state statutes, which made it the duty of officials of the board to declare any contract canceled," while "violates these provisions are supported with affidavits," said F. Huffman, president of the carpenters' union.

The petition says that the contractor "willfully, continuously and daily is violating sections 4412 to 4417, Remington's compiled statutes, declaring the public policy of this state, and providing that eight hours shall constitute a day's work, on all public improvements made by the state, or any of its political subdivisions, by requiring his workmen on said school building to work more than eight hours each day."

L. B. A. C. WILL MAKE HONOR AWARDS

A competition for honor awards for buildings of special architectural merit erected during 1929 and 1930 is being sponsored by the Long Beach Architectural Club, Hugh R. Davies, president. The awards will be announced at a banquet to be held June 30.

Nat. Piper, George W. Kahrs and Kenneth Webb comprise the committee in charge of the competition. Sumner Spaulding, president of the Los Angeles Architectural Club, heads the jury on awards.

Reports numbering 4691 filed by Connecticut contractors, not including reports which, for various reasons, could not be tabulated, have been received by the Construction Section of the Census of Distribution of this number, 804 reported their 1929 business as \$25,000 or over, while 3887 filed reports indicating that their construction operations fell short of that amount. This latter class is made up of 921 general contractors and 2966 sub-contractors. The reports of the general contractors show that 905 are engaged in building construction, 9 in street and highway operations, and 7 in miscellaneous work.

FREIGHT RATE PROTESTS FILED

Monolith Portland Cement Company has filed a complaint with the Railroad Commission against Southern Pacific Company, The Atchison, Topeka and Santa Fe Railway Company, Visalia Electric Railroad Company, California Central Company, Bay Point & Clayton Railroad Company, California Central Railroad Company and Yosemite Valley Railroad Company, alleging that defendant carriers collected during the last two years unjust and unreasonable rates for the transportation of numerous carloads of cement from Monolith to various points in California, and which rates are greatly in excess of those charged from the plants of competing companies in other parts of California. Complainant asks the Commission to issue its order requiring defendants to cease from charging rates for the transportation of cement in carloads from the plant of complainant to Monolith to points in California which are higher than those charged contemporaneously from plants of competitors, and to award reparation to complainant in the amount equal to the difference between the charges assessed and those found reasonable by the Commission.

R. E. Hazard Contracting Company has filed a complaint with the Commission against Southern Pacific Company, The Atchison, Topeka and Santa Fe Railway Company and San Diego & Arizona Railway Company, alleging that defendant carriers collected excessive rates for the transportation of a number of carloads of earth from Tom, Mono County, to Spring Valley on the San Diego & Arizona Railway Company in San Diego County, and asking the Commission to award reparation in the sum of 16½ cents per 100 pounds on such shipments.

L. A. COUNTY BUILDING IN MAY

During the month of May, 1931, the Los Angeles County Regional Planning Commission issued 349 permits for buildings with an estimated valuation of \$631,300 to be erected in the unincorporated territory of the county. During the first 5 months of 1931, the commission issued 2081 permits with an estimated valuation of \$5,601,054. Following is the report for May, 1931, classified according to use or occupancy of buildings:

	No.	Permits	Value
Single dwellings	116		\$361,450
Duplex houses	5		47,000
Apartment houses	2		101,300
Commercial buildings	33		41,200
Industrial buildings	7		16,900
Miscellaneous buildings	185		63,900
Totals	349		\$631,750

"If we are to emerge from the present period of depression it will not be because of governmental aid, it will not be because of any attempted revision of economic laws, but by reason of individual effort, enterprise and energy given their fullest expression, and in their results assured by governmental protection."

So says Edward D. Duffield, president of the Prudential Insurance Company.

One hundred men have returned to work at the New Castle, Pa., plant of the Lehigh Portland Cement Company, after the usual winter suspension of operations. Orders held by the company will permit operations several months.

PACIFIC COAST CITIES SPEND \$15,304,493 IN MAY BUILDING

Following is a compilation of May, 1931, building permit valuations for Pacific Coast cities together with the valuations for the corresponding period in 1930, as reported by building department executives in the cities named:

City	No.	May, 1931	Cost	May 1930
CALIFORNIA				
Alameda	54	\$ 50,382	\$ 44,919	
Alhambra	43	85,850	352,500	
Albany	24	162,095	160,900	
Anaheim	14	20,100	27,415	
Bakersfield	49	59,555	291,155	
Berkeley	101	209,451	288,878	
Beverly Hills	57	245,710	55,850	
Carmel	8	20,655	11,800	
Chula Vista	10	15,690	7,250	
Colton	5	2,350	4,850	
Compton	20	102,950	55,351	
Coronado	22	11,765	24,500	
Emeryville	2	825	2,900	
Eureka	27	13,550	38,205	
Fresno	101	75,442	77,497	
Fullerton	9	13,078	41,845	
Glendale	97	219,885	294,655	
Hayward	4	3,850	4,200	
Huntington Park	30	34,365	272,475	
Inglewood	43	137,750	106,478	
Long Beach	270	438,100	1,275,680	
Los Angeles	2,200	3,095,700	7,141,950	
Los Gatos	7	6,045	3,375	
Lynwood	6	6,200	71,167	
Modesto	21	6,836	128,475	
Monrovia	22	18,481	21,690	
Montebello	8	10,370	14,210	
Monterey	19	26,333	71,125	
National City	22	14,695	8,775	
Oakland	233	424,848	\$52,761	
Oceanside	15	4,769	8,505	
Ontario	22	84,600	128,584	
Orange	11	20,910	6,200	
Pacific Grove	16	17,175	8,900	
Palo Alto	37	105,075	84,325	
Palo Verde Estates	1	10,230	11,750	
Pasadena	259	20,980	43,500	
Petaluma	5	318,017	436,084	
Piedmont	14	84,199	86,593	
Pomona	45	132,031	237,555	
Redwood City	32	60,270	54,280	
Richmond	40	36,100	31,140	
Riverside	61	66,540	682,335	
Sacramento	113	676,097	278,141	
Salinas	25	23,775	72,013	
San Bernardino	49	56,850	71,105	
San Diego	284	431,610	654,695	
San Francisco	530	2,853,671	2,881,110	
San Gabriel	12	38,848	47,720	
San Jose	46	61,455	227,715	
San Leandro	5	32,600	70,688	
San Marino	11	102,616	147,531	
San Mateo	18	69,132	91,390	
San Rafael	5	5,225	34,275	
Santa Rosa	54	81,459	263,565	
Santa Barbara	58	606,460	211,891	
Santa Cruz	29	20,330	26,010	
Santa Rosa	16	7,975	24,095	
South Pasadena		28,245	20,484	
Stockton	66	285,699	176,770	
Torrance	7	5,700	54,539	
Yuba	3	8,900	163,150	
Vernon		21,263	31,325	
Watsonville	12	9,750	22,180	
Willow Glen	20	65,600	25,000	
Total	5,463	\$11,838,163	\$19,536,385	
ARIZONA				
Phoenix	51	\$ 115,820	\$ 276,310	
Tucson	108	127,822	246,339	
Total	159	\$ 243,642	\$ 521,649	
IDAHO				
Boise	63	\$ 28,284	\$ 316,409	
Lewiston	18	53,150	26,685	
Nampa	23	6,030	8,630	
Total	104	\$ 87,464	\$ 351,104	
NEVADA				
Reno	56	\$ 165,810	\$ 217,650	
UTAH				
Logan	1	\$ 2,900	\$ 10,600	
Ogden	7	74,680	34,060	
Salt Lake City	95	865,846	418,946	
Total	117	\$ 443,426	\$ 461,506	

OREGON

Albany	5	\$ 7,700	\$ 9,210
Astoria	20	6,504	2,565
Corvallis	10	2,810	15,560
Eugene	59	18,282	25,349
Marshallfield	4	15,900	9,450
Portland	436	439,985	\$60,595
Salem	37	23,392	34,195
Total	571	\$ 513,673	\$ 961,264

WASHINGTON

Aberdeen	25	\$ 8,360	\$ 36,345
Bellingham	25	20,965	93,450
Everett	46	18,510	177,015
Hoquiam	12	1,675	8,916
Longview	7	2,350	316,275
Port Angeles	10	6,600	18,650
Seattle	526	1,006,890	2,177,520
Spokane	178	132,755	\$30,260
Tacoma	133	154,350	185,595
Vancouver	16	2,200	16,043
Walla Walla	22	3,190	90,585
Wenatchee	18	84,000	132,000
Yakima	63	618,320	70,125
Total	1,081	\$ 2,012,315	\$ 4,225,579
Grand Total	7,551	\$15,304,453	\$26,274,417

FIVE BILLION LOAN
URGED BY HEARST
TO END DEPRESSION

William Randolph Hearst, head of the Hearst newspapers, in a radio address last Tuesday night, urged the government to borrow \$5,000,000,000 to restore prosperity and suggested that it could pay off the debt in five years by abolishing prohibition.

"This is not time to reduce the national debt through burdensome taxation, and thereby reduce prosperity," he said.

"It is a time to increase the national debt and increase the expenditure of the government in public works in the employment of labor, and thereby increase prosperity.

"Then out of prosperity to pay off the debt."

Prosperity, he continued, means increased incomes and values out of which the government would "eventually get even with moderate taxation," an increased income to pay off the loan.

"And," he added, "if the government desires further to increase its income let it end this folly of prohibition which does not prohibit, and substitute government control of the manufacture and distribution of alcoholic beverages, and so secure for itself on the basis of the figures of Canada's excise income, an additional income of a billion dollars a year.

"The excise income to the United States government of a billion dollars a year would in itself pay off in five years five billion dollars borrowed and spent to restore prosperity."

HOME BUYING IS
ON THE INCREASE

Subtle signs of good times in the making are seen in three major surprises which the buying public is springing on building and loan associations, according to the United States Building and Loan League, in its quarterly survey of coast-to-coast conditions. Borrowers are meeting their installment payments on home mortgages with unlooked for promptness, dollars seeking investment in building and loan are mounting, and bargain-hunting in the for-sale residential areas has started, the league's member associations report.

The organization speaks for the lending savings, building and loan associations and cooperative banks in the country, on the basis of findings during the past ten days of inquiry.

The demand for building and loan shares has increased 25 per cent over 1930 in some areas, in other sectors it has grown so great that individual investments are limited to \$200, and in still other areas new accounts are being refused because of abundance of money in the associations, says H. Morton Bodfish, executive manager.

The combination of plentiful money for first mortgage loans with bargain prices in residential real estate is showing its effect in increased home buying, especially noticeable in the last few weeks, several of the league directors in various sections of the country report. Home seekers give every indication of taking further advantage of this happy combination of circumstances during the coming months, the building and loan leaders agree.

Prosperity glimpses gleaned from the statements of the league's offices and directors included in the June list forecasts applications for mortgages of the building and loan business.

The Mount Emily Lumber Company sawmill at La Grande, Ore., idle since December last, resumed operations last Thursday. Its owners said indications point to a continuous run for a long period of time.

AMENDMENTS TO CONTRACTORS' LICENSE LAW OF CALIFORNIA

(Continued from page 3)

Sec. 9. Section 10 of Chapter 791, Statutes of 1929, is hereby amended to read as follows:

Sec. 10. A judgment of suspension or cancellation of license by the superior court shall be subject to appeal or review in accordance with the provisions of law as to appeal from or review of judgments of superior courts, but there shall be no stay of execution of enforcement of such judgment pending such proceedings on appeal or review unless the appellant or applicant for review shall file a bond in all respects conditioned as, and similar to, the bond required by Section 9a of this act.

The clerk of the court wherein said judgment has become final shall, within 10 days after the entry of such final judgment, transmit, by United States mail, to the registrar, notice containing the information as to the affirmation, modification or reversal of the judgment of the superior court in said matter.

Sec. 10. A new section is hereby added to Chapter 791, Statutes of 1929, to be numbered 10a and to read as follows:

Sec. 10a. In any investigation, proceeding or hearing which under the provisions of this act he is empowered to institute, conduct or hold, the registrar, deputy registrars and investigators shall have the power to administer oaths, certify to official acts, issue subpoenas for the attendance of witnesses and the production of books, papers and records, and exercise all of the powers conferred upon the head of a department by the provisions of sections 533 of the Political Code. All of the provisions of said section are incorporated herein with the same force and effect as if herein set forth at length and wherever in said section the term "head of a department" or similar designation occurs, the same, for the purpose of this reference, means the "registrar of contractors."

Section 11. Section 11 of Chapter 791, Statutes of 1929, is hereby amended to read as follows:

Sec. 11. After suspension of the license upon any of the grounds set forth in Section 9 of this act, the registrar shall renew the same upon proof of the compliance by the contractor with any provisions of the judgment as to renewal of such license or, in the absence of such

judgment or any provisions therein as to renewal, in the sound discretion of the registrar. After cancellation of a license upon any of the grounds set forth in Section 9 of this act, such license shall not be renewed or re-issued within a period of one year after final determination of cancellation and then only on proper showing that all loss caused by the act or omission for which the license was canceled has been fully satisfied.

Sec. 12. Section 12 of Chapter 791, Statutes of 1929, is hereby amended to read as follows:

Sec. 12. Any person who acts in the capacity of a contractor within the meaning of this act without a license as herein provided, and any person who conspires with another person to violate any of the provisions of this act, is guilty of a misdemeanor, and shall be punished therefor, be punished by a fine of not to exceed \$500, or by imprisonment in the county jail for a term not to exceed six months, or by both such fine and imprisonment, in the discretion of the court.

No person engaged in the business or acting in the capacity of a contractor as defined by Section 3 of this act, shall bring or maintain any action in any court of this state for the collection of compensation for the performance of any act for which a license is required by this act without alleging and proving that such person was a duly licensed contractor at the time the alleged cause of action arose.

The word "person" as used in this section includes an individual, a firm, copartnership, corporation, association, or other organization.

Paramount Steam Turbine Co., Ltd., capitalized for \$200,000, has been incorporated in Oakland. Directors are: John I. Easterly of Healdsburg, Carl F. Piper, H. R. Battee and Edwin L. Battee of Oakland, and Mary A. Wood of Santariam, Calif.

Neon Sign Service Co., Ltd., capitalized for \$25,000, has been incorporated in San Francisco. Incorporators are O. Stuart Campbell, V. S. Hedge, J. V. Raftal and Julian D. Cohn.

John Kaye has been appointed city electrical inspector of Sunnyvale, Calif. The position was recently created by the city trustees. An assistant to Kaye will be named shortly

Building News Section

APARTMENTS

Grading & Structural Steel Contracts Awarded.

APARTMENTS Cost, \$150,000
SAN FRANCISCO. Walnut and Clay Streets.

Six-story and basement class C reinforced concrete and steel frame apartments (30 2- 3- and 4-room apts.)

Owner and Builder—L. Epp, 4745 Geary Street.

Architect—H. C. Baumann, 251 Kearny Street.

Structural Steel—Herrick Iron Works, 18th and Campbell Sts., Oakland.

Grading—L. Devincenzi & Co., 148 Blake Street.

Reinforcing steel and concrete bids wanted.

Plans Being Figured.
APARTMENTS Cost, \$250,000
OAKLAND, Alameda Co., Cal. East 12th St. near Third Ave.

Nine-story Class A reinforced concrete apartments and stores (56 2- and 3-room apts.; 1 5-room apt.; vacuum steam heating)

Owner—L. J. Newton, 1130 1st Ave., Oakland.

Plans by Thomas Keenan, 1440 Broadway, Oakland.

Taking Bids On General Contract.
APARTMENTS Cost, \$22,000
SAN FRANCISCO. W Castro Street S 21st.

Three-story and basement frame and stucco apartments (11 2- and 3-room apts., garages; composition roof).

Owner—F. A. Pachter, 1467 11th Ave. Plans by Owner.

Sub-Contracts Awarded.
APARTMENTS Cost, \$150,000
SAN FRANCISCO. SE Ellis and Franklin Streets.

Seven-story reinforced concrete, steel and brick apartments (tar and gravel roof, electric stores and refrigerators; 53 2- & 3-room apts.)

Owner—Bargene Realty Co., 323 Monadnock Bldg.

Architect—Charles E. J. Rogers, Pheasant Bldg.

Structural Steel—McClintic-Marshall Co., 2050 Bryant St.

Lumber—Christiansen Lbr. Co., Fifth and Hooper Sts.

Contracts for reinforcing steel and ornamental iron will be awarded in a few days.

BONDS

REDWOOD CITY, San Mateo Co., Cal.—Redwood City Elementary School District votes bonds of \$85,000 to finance erection of an elementary school at Eagle Hill and a 2-classroom addition to the Garfield School.

Bond Election Defeated.
SCHOOL Cost, \$46,000
ARROYO GRANDE, San Luis Obispo Co., Calif.

One-story elementary school.

An election held June 6 to vote bonds of \$46,000 to finance erection of this structure failed to carry. The vote was 240 in favor and 201 against, a two-third majority being required to carry the proposal.

ISLETON, Sacramento Co., Calif.—City trustees will call election to vote bonds of \$9,500 to finance enlargement of firehouse.

CHURCHES

Electrical Contract Awarded.
CHURCH Cost, \$—
SAN FRANCISCO. Funston Ave. and Judah St. (St. Anne's Church).

Class A reinforced concrete church.

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St.

Architect—Shea and Shea, 545 Montgomery St.

Electrical Work—Severin Electric Co., 172 Clara St., \$6,838

As previously reported, heating and ventilating awarded to A. A. Polla, 401 14th Ave.; general contract to S. Rasori, Cal Bldg., at \$186,000; plumbing to Dowd & Welch, 3558 18th St., at \$3958.

Plans Being Figured—Close June 12.
CHURCH Cost, \$15,000
DAVIS, Yolo Co., Cal.

One-story reinforced concrete church (seating capacity of 250; terra cotta tile roof; gas furnace, cast stone).

Owner—Roman Catholic Archbishop of Sacramento (Rev. J. A. Grealy, Parish Priest), Winters.

Plans by George Rossi, 865 Bayshore Highway, San Mateo.

Prospective bidders on the project include O. Hedahl, Burlingame; J. A. Pausback, 1722 J St., Sacramento.

Completing Plans.
CHURCH Cost, \$10,000
CHICO, Butte Co., Cal.

Two-story brick church building.

Owner—Bidwell Memorial Church, (Rev. R. C. LePorte, Pastor).

Architect—Charles F. Dean, California State Life Bldg., Sacramento.

Expect to be ready for bids about July 1.

The structure will be erected on the site of the old Presbyterian Church which was recently destroyed by fire.

A portion of the old church building will probably be used in the erection of the new structure

To Be Awarded.
CHURCH Cost, \$20,000
SACRAMENTO, Sacramento Co., Cal. SW 38th St. and 4th Ave. (72x125 feet).

SKILSAW Portable Electric Hand Saws (4 models).

SKILSAW Portable Electric Sander

SKILSAW Radial Arm Attachment.

SYNTRON Portable Electric Hammers (4 models, motorless).

MALL Fflexible Shaft Machines (50 models).

Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric Tools.

1248 Mission St. Underhill
San Francisco 7642

SALES . SERVICE . RENTALS

One-story reinforced concrete and stucco church (seat 250; tile roof).

Owner—First English Lutheran Church

Architect—Wm. E. Coffman, P O r u m Bldg., Sacramento.

Contractor—Chas. Unger, 4532 T St., Sacramento.

FACTORIES AND WAREHOUSES

Structural Steel Contract Awarded.
SACKING PLANT Cost, \$15,000
SHELL POINT, Contra Costa Co., Cal.

One-story steel frame sacking plant.

Owner—Shell Oil Co., Shell Bldg., San Francisco

Plans by Eng. Dept. of Owner.

Structural Steel—California Steel Co., Hobart Bldg., San Francisco.

As previously reported, foundation awarded to Barrett & Hip, 918 Harrison St., S. F.

A. T. Cole, Shell Point, is in charge of construction.

Sub-Contracts Awarded.
PACKING PLANT Cost, \$20,000
LINDEN, San Joaquin Co., Calif.

One-story and basement packing plant (wooden frame, concrete basement; capacity 1200 tons).

Owner—San Joaquin Valley Walnut Growers' Assn., Linden.

Plans by Contractor.

Contractor—J. J. Cavanaugh, 219 No. Sutter St., Stockton.

Excavator—Cannan & McCarty, 603 E Worth St., Stockton.

Lumber—Linden Lumber Co., Linden.

Hardwood Floors—J. C. Wells, 523 E Maple St., Stockton.

Concrete Work—A. A. Sandberg, 1846 Mt. Diablo Ave., Stockton.

Painting—L. Dick, 2404 Mt. Diablo Ave., Stockton.

Plumbing and Sheet Metal Work—Arthur Ray, 735 E Lafayette Street, Stockton.

Iron Work—Seller Iron Works, Stockton.

Reinforcing—F. A. Klinger, 1269 N. Pilgrim St., Stockton.

Millwork—Elec. Planing Mill, Stockton.

Electric Wiring—By Owners.

Rough Hardware—Foots Hdwe. Store, Linden.

Taking Steel Bids.
WAREHOUSE Cost, \$20,000
OAKLAND, Alameda Co., Cal. South Seventh St. E Fallon St.

One-story reinforced concrete warehouse.

Owner—George R. Borrmann Steel Co., 4th and Grove Sts., Oakland.

Engineer—H. W. Bolin, Financial Center Bldg., Oakland.

Will take either segregated bids or general construction figures this week.

Contract Awarded.
HOG BARN, ETC. Cost, \$—
STOCKTON, San Joaquin Co., Calif.

Agricultural Park, County Fair Grounds.

Live stock building and hog barn.

Owner—County of San Joaquin, Eugene D. Graham, county clerk, Stockton.

Architect—Peter Sala, 2130 No. Commerce St., Stockton.

Contractor—Carl Nelson, 1421 E Channel St., Stockton.

OAKLAND, Alameda Co., Cal.—George W. Woolfe, 795 Alcatraz Ave., Oakland, at \$2995 awarded contract by City Port Commission, for electric wiring for Warehouse AA located on W. 14th Street Pier.

Plans Being Figured—Bids Close June 22, 4: 30 P. M.—
WAREHOUSE SUPERSTRUCTURE
Cost, \$250,000

OAKLAND, Alameda Co., Cal. Outer Harbor Terminal.

Super structure for two-story reinforced concrete warehouse ("C") 210x230 ft.

Owner—City of Oakland Port Commission (G. B. Hegardt, Secretary) 424 Oakland Bank Bldg., Oakland
Plans by Eng. Dept. of Owner.

OAKLAND, Alameda Co., Cal.—Kenyon Electric Co., 526 13th St., Oakland, at \$730 submitted lowest bid to Oakland Port Commission for electric wiring for light and power for the Inland Waterways Terminal. Following is a complete list of bids received:

Kenyon Electric Co., Oakland.....	730
G. W. Coupe, Oakland.....	730
Pacific Elec. Motor Co., Oakland.....	742
Kerr & Clifford, Oakland.....	742
George Woolfe, Oakland.....	775
C. W. Bates, Oakland.....	780
Advance Electric Co., Oakland.....	791
T. L. Rosenberg, Oakland.....	835

Bids held under advisement.

SAF FRANCISCO—Plant of Gailand Mercantile Laundry, 8th and Folsom Street, suffered a \$30,000 fire loss last Tuesday evening.

Plans Being Figured—Bids Close June 18, 2 P. M.—
STATION BLDG. Cost, \$—
LIVERMORE, Alameda Co., Cal. One mile west of Livermore.

Highway Maintenance Station, consisting of superintendent's cottage; combination woodshed and garage; blacksmith shop, septic tank and clothes line posts.

Owner—State of California (State Highway Commission).
Engineer—John H. Skeggs, district engineer, State Highway Commission, 211 State Bldg., San Francisco.

The work of this contract comprises excavation, concrete and masonry work, carpentry and millwork, lathing and plastering, sheet metal work, painting, plumbing, heating and electrical installations.

Plans Being Figured—Bids Close June 17, 2:30 P. M.—
ALTERATIONS Cost, \$12,000
SAN FRANCISCO. Mills Field Municipal Airport.

Alterations for Hangar No. 1, providing for pilot's room; ticket office, toilet and washroom facilities and 3 repair shops; construct firehouse and Hangars Nos. 1, 2 and 3 and alter partition walls between Hangars Nos. 2 and 3 and 3 and 4.

Owner—City and County of San Francisco, S. J. Hester, Sec'y., Board of Public Works.

Plans by Bureau of Architecture, 2nd floor, City Hall.

Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from the Bureau of Architecture, 2nd floor, City Hall, on deposit of \$10, returnable.

Bids Wanted on Rolling Doors.
FACTORY Cost approx. \$50,000
EMERYVILLE, Alameda Co., Cal. One-story steel frame and brick factory.

Owner—Paraffine Companies, Inc., 475 Brannan St., San Francisco.
Engineer—Leland Rosener, 233 Sansome St., San Francisco.
Contractor—MacDonald and Kahn, Fil-

nnancial Center Bldg., San Francisco.

Other sub-bids will be taken as soon as plans are complete.

Sub-Contracts Awarded.
LAUNDRY Cost, \$10,000
MOUNTAIN VIEW, Santa Clara Co., Cal. Villa St. bet. Bryant and Franklin Sts.

One-story concrete steam laundry. Owner—French Steam Laundry Co., Mountain View.

Private Plans.
Contractor—Carl Lindholm and Sons, Church and Castro Sts., Mt. View.
Roofing—Fred Hayden, 369 Stockton St., San Jose.

Iron Work—San Jose Iron Works, San Jose.

Glass—Coast Glass Co., 263 Santa Clara, San Jose.

Lumber—Merner Lbr. Co., 795 Highway, Palo Alto.

Steel Sash—Detroit Steel Products Co., 111 Sutter St., San Francisco.

Cement—Henry Cowell, 2 Market St., San Francisco.

Plans Being Figured—Bids Close June 18, 2 P. M.—
STATION BLDG. Cost, \$—
BOONVILLE, Mendocino Co., Cal.

Highway Maintenance Station, consisting of superintendent's cottage; combination woodshed and garage; blacksmith shop, septic tank, yard trellis and clothes line posts.

Owner—State of California (State Highway Commission).
Engineer—John H. Skeggs, district engineer, State Highway Commission, 211 State Bldg., San Francisco.

The work of this contract comprises excavation, concrete and masonry work, carpentry and millwork, lathing and plastering, sheet metal work, painting, plumbing, heating and electrical installations.

Additional Sub-Contracts Awarded.
WAREHOUSE Cost, price, \$70,975
OAKLAND, Alameda Co., Cal. West 14th Street Pier.

One-story steel frame warehouse (518 x 100 ft.; Warehouse AA).

Owner—City of Oakland (Port Commission), 424 Oakland Bank Bldg., Oakland.

Lessee—Rosenberg Bros., Third and Bancroft, Oakland.

Contractor—Eng. Dept. of Owner.

Contractor—H. J. Christensen, Ray Bldg., Oakland.

Steel Sash—Detroit Steel Products Co., 111 Sutter St., San Francisco.

Iron Work—California Steel Co., Second and Harrison Sts., Oakland.

Glass—W. P. Fuller & Co., 259 Tenth St., Oakland.

GARAGES AND SERVICE STATIONS

Sub-Contracts Awarded.
SERVICE STATION Cost, \$8740
BERKELEY, Alameda Co., Cal. No. 1908 University Ave.

Super service station. Owner—F. B. Hoy, 1600 Lakeshore Ave., Oakland.

Architect—Not Given.

Contractor—George Peterson, 1841 Bancroft Ave., San Leandro.

Roofing—Wm. Koplin, 831 Lincoln Ave., Alameda.

Glass—W. P. Fuller & Co., 259 10th St., Oakland.

Steel Frame—Independent Iron Works Ltd., 1820 Chase St., Oakland.

Plumbing—J. A. Fazio, 402 Castro St., Oakland.

Sheet Metal—Eagle Sheet Metal Wks., 1126 4th Ave., Oakland.

As previously reported, steel sash awarded to Michel & Pfeiffer Iron Works, Inc., Tenth and Harrison Sts., S. F.; lumber to Tilden Lumber Co.,

Foot of University Ave., Berkeley; brick to Victor DeVight, 1823 Milvia St., Berkeley.

Preparing Preliminary Plans.
SALES BLDG. Cost, \$—
SAN FRANCISCO. Van Ness Avenue and Howard St.

One-story and basement bldg. (either reinforced concrete or frame and stucco construction).

Owner—Pacific Tire Sales Co., 982 Post Street.

Architect—S. A. Colton, 3020 Balboa Street.

Owner will take bids from a selected list of contractors, including Hamilton Const. Co., 5144 Geary St.

Sub-Contracts Awarded.
AUTO SALES BLDG. Cost, \$50,000
PALO ALTO, Santa Clara Co., Calif. High St. and Forest Ave.

One-story reinforced concrete sales and service building (105x225-feet; Spanish design; showroom, offices, super-service station, repair shop, used car department; flagstone floors, hewn beam ceilings, tile roof, electric heating).

Owner—Shaw Motor Co., Ltd., Emerson and Homer Sts., Palo Alto.

Designs by—A. C. Shaw.

Spec. by—J. D. Campbell, 15 Crescent Palo Alto.

Bids are being taken by Campbell, who is supervising the construction.

Lumber—Superior Lumber Co., Evans and Quint Sts., San Francisco.

Roof Trusses—Summerbell Truss Co., 354 Hohart St., Oakland.

Taking Sub-Bids.
AUTO SALES BLDG. Cost, \$50,000
PALO ALTO, Santa Clara Co., Calif. High St. and Forest Ave.

One-story reinforced concrete sales and service building (105x225-ft.; Spanish design; showroom, offices, super-service station, repair shop, used car department; flagstone floors, hewn beam ceilings, tile roof, electric heating).

Owner—Shaw Motor Co., Ltd., Emerson and Homer Sts., Palo Alto.

Designs by—A. C. Shaw.

Spec. by—J. D. Campbell, 15 Crescent Palo Alto.

Bids are being taken by Campbell, who is supervising the construction, which will begin very soon.

Taking Figures.
SERVICE STATION Cost, \$6000
OAKLAND, Alameda Co., Cal.

Steel frame and tile service station.

Owner—Withheld.

Architect—W. J. Wilkinson, 4268 Piedmont Ave., Oakland.

Contract Awarded.

SERVICE STATION Cost, \$—
OAKLAND, Alameda Co., Calif. NE

Mandana Blvd. and Lakeshore.

Steel frame and brick super service station.

Owner—Standard Oil Co., 225 Bush St., San Francisco.

Plans by Eng. Dept. of Owner.

Contractor—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.

Contract To Be Awarded.

SERVICE BLDG. Cost, cost, \$36,175
VALLEJO, Solano Co., Cal. NW

Sonoma and Main Sts. (30x150-ft.)

Two-story automobile plant and service building (probably brick construction).

Owner—Acme Motor Co. (Vallejo Ford dealers).

Architect—Claude Barton, 525 Grand Ave., Oakland.

Contractor—F. C. Stolte, 3449 Laguna St., Oakland.

Preparing Plans

SERVICE STATION Cost, \$7500
SAN FRANCISCO. Eighteenth St

and Potrero Ave.

Service station (steel frame construction).

Owner—General Petroleum Co., 1924 Broadway, Oakland.
Architect—Eng. Dept. of Owner.

Preparing Plans.
SERVICE STATION Cost, \$8,000
SAN FRANCISCO. Army and Valencia Streets.

Service station (steel frame construction).
Owner—General Petroleum Co., 1924 Broadway, Oakland
Plans by Engr. Dept. of Owner.

Contract Awarded.
SERVICE STATION Cost, \$7,500
SAN FRANCISCO. Third and Harrison Streets.

Frame and stucco service station.
Owner—General Petroleum Co., 1924 Broadway, Oakland.
Plans by Engr. Dept. of Owner
Contractor—Reavey & Spivock, Shell Oil Bldg., San Francisco.

GOVERNMENT WORK AND SUPPLIES

SAN DIEGO, Cal.—Until June 19, 11 A. M., under Specification No. 6582, bids will be received by 11th Naval District for exhaust system for carpenter shop at the Naval Operating Base (Marine Corps Base), San Diego. The work will include the furnishing and installing of a motor-driven exhaust fan; a collector and dust system from existing machines and floor outlets to fan, thence to collector; also supports for fan and collector; certain conduit and wiring, and miscellaneous work and material. Spec. obtainable from above.

SACRAMENTO, Cal.—Until June 23, 3 P. M., under Circular Proposal No. 31-350, Specifications No. 3223, bids will be received by U. S. Engineer Office, California Fruit Bldg., for dredging, painting and repairing of the U. S. Engineer Department Motor Dredge Tenders, "Rio Vista," and "Pit." Specifications obtainable from above.

PEARL HARBOR, T. H.—See "Machinery and Equipment," this issue. Bids opened for 30-ton revolving crane for Naval Submarine Base at Pearl Harbor.

Plans Being Figured—Bids Close June 17, 11 A. M.

PARTITIONS, ETC. Cost, \$—
SAN FRANCISCO. 100 Harrison St. Install partitions, plumbing, etc., on 4th floor of Marine Corps Depot of Supplies (Spec. No. 6589).

Owner—United States Government.
Plans by Public Works Officer, 12th Caval Dist., 100 Harrison St.
Plans obtainable from above office on deposit of \$10, returnable, checks for same to be made payable to Chief of the Bureau of Yards and Docks.

SAN FRANCISCO.—A. G. Raisch, 46 Kearny St., at \$598 awarded contract by Constructing Quartermaster, Fort Mason, for repairs to roads at Fort Mason.

MARCH FIELD, Riverside Co., Cal.—Until June 16, 11 A. M., bids will be received by Constructing Quartermaster, March Field, for smoothing, hardening and treating concrete floors in eight hangars of the air corps machine shop and air corps warehouse at March Field. Involves approximately 220,000 sq. ft. of concrete flooring. Specifications obtainable from Constructing Quartermaster at March Field on deposit of \$5.

FORT ARMSTRONG, T. H.—Permutit Co., 543 Market St., San Francisco, submitted lowest bid to Constructing Quartermaster, Fort Mason, Calif., to furnish and test green sand

zeolite water softener at Fort Armstrong, T. H. (Hawaiian Department). Following is a complete list of bids: (1) f.o.b. Brooklyn, N. Y.; (2) f.o.b. San Francisco; (3) f.o.b. Honolulu, T. H.

Permutit Co. San Francisco (1) \$1,720; (2) \$1,815; (3) \$1,890.
International Filter Co., San Francisco (1) \$1,785; (2) \$1,827; (3) \$1,920.
Strout Steffins Equip Co., San Francisco (1) \$1,400.
Residess Eng. Corp., San Francisco (1) \$1,303; (2) \$1,920; (3) \$1,945.
Bids held under advisement.

SAN LUIS OBISPO, Cal.—Until June 24, 10 A. M., bids will be received by U. S. Property and Disbursing Officer for California, 128 State Capitol Bldg., Sacramento, to construct:

Three storehouses;
Three latrines;
Two latrine enclosures;
Nine corrals;
Twenty-seven feed racks;
Five water troughs;
Three ammunition magazines;
One 2,000,000-gal. reservoir;
Enlarge administration building.
All above located at the National Guard Training Camp at San Luis Obispo. Plans and further information obtainable from Disbursing Officer at Sacramento.

SAN FRANCISCO.—Until June 16, 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason, to install 11 coal burning heaters and furnishing and installing ten radiators in Officers' Quarters at Fort Baker. Specifications obtainable from above.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Dept., Washington, D. C., to furnish and deliver miscellaneous supplies and equipment as noted in the following schedules, further information being available from the Navy Purchasing Officer, 190 Harrison St., San Francisco.

Bids Close June 22
Pearl Harbor, 1500 canvas parachutes; sch. 5825.
Mare Island, 7800 ft linen fire hose; sch. 5844.

Western yards, taps, dies, tap wrenches, and diestocks; sch. 5784.
Mare Island, 264 vacuum tubes; sch. 5853.

Hawthorne, Nevada, 110,000-gal. cable tubes; sch. 5847.

Bids Close June 30
Hawthorne, Nevada, 110,000-gal. capacity fuel oil storage tank; sch. 5850.

HONOLULU, T. H.—Following is a complete list of bids received under Circular No. 95 by U. S. Engineer Office, Honolulu, to construct 8 storage magazines, workshops, guardhouse, etc., at Moanalu Island:

Hawaiian Contracting Co., Ltd., 854 Kaahumanu St., Honolulu, T. H., \$179,774, award recommended.
J. Young Engineering Co., Ltd., 1750 Young St., Honolulu, T. H., \$180,600.

Ralph E. Woolley, 304 Castle & Cooke Bldg., Honolulu, T. H., \$205,459.

Jorgen Jorgensen, P. O. Box 3172, Honolulu, T. H., \$219,450.

E. E. Black, Ltd., P. O. Box 3203, Honolulu, T. H., \$221,673.95.

John K. McCandless, 202 McCandless Bldg., Honolulu, T. H., \$229,510.

Henry Freitas, Room 4, Campbell Block, Honolulu, T. H., \$230,000.

Walker & Olund, Ltd., 529 Piikoi St., Honolulu, T. H., \$233,058.

Moses Akiona, 1145 Gulick Ave., Honolulu, T. H., \$249,950.

J. L. Cliff, 815 Waimanu St., Honolulu, T. H., \$287,728.

S. J. Koho, 1373 Nuananu St., Honolulu, T. H., \$387,591.

Bids Opened.
REPAIRS Cost, \$—
SAN FRANCISCO. Letterman Hospital.
Tile and wainscoting in main kitchen (No. 9) and dining room (No. 10).
Owner—United States Government.
Plans by Constructing Quartermaster, Fort Mason.
Malott & Peterson, 3221 20th St., \$1,120
Meda Art Tile Co., 1,127
Progressive Tile & Mantel Co., 1,197
Ed. Rosemont, 1,245
Bids held under advisement.

STOCKTON, San Joaquin Co., Cal.—Bids will be asked shortly by U. S. Engineer Office, California Fruit Bldg., Sacramento, for dredging in Stockton Channel, involving 1,435,000 cu. yds. of material. Further mention will be made of this work when bid opening date is set.

To Take Bids Next Week.
STABLES Cost, \$24,000
MONTEREY PRESIDIO, Monterey Co., Cal.

Two frame stables with concrete floors (fire resisting roofs).
Owner—United States Government.
Plans by Constructing Quartermaster.
Bids will be called for next week. Plans obtainable from constructing quartermaster upon deposit of \$5, returnable.

Bids Opened—Contracts Awarded.
STORE HOUSE, ETC. Cost, \$—
MONTEREY PRESIDIO, Monterey Co., Cal. Presidio of Monterey.

One camp store house and lavatory buildings.
Owner—United States Government.
Plans by Constructing Quartermaster, Presidio of Monterey.

Storehouse—Swman & Halsted, Pacific Grove.
Lavatories—Branagh & Hudson, 1 8 4 Perry St., Oakland.

Complete list of bidders follows:
Storehouse

Newman and Halsted, Pacific Grove	\$ 7,098
Branagh & Hudson, Oakland	8,158
L. J. Murphy, Carmel	8,177
Richard Chivers, Pacific Grove	8,246
H. D. Coon, Carmel	8,600
Herbert Kohlwe, S. F.	8,611
Hooke & Hooke, Monterey	8,676
Theo. Johanns, San Francisco	8,820
T. B. Goodwin, San Francisco	8,865
W. P. Vaughn, Oakland	9,000
Minton Co., Palo Alto	9,247
Thermotite Const. Co., San Jose	9,480
B. Berglund, Watsonville	10,534
H. H. Larsen Co., San Francisco	10,790
Albert Station, Oakland	11,129
H. P. Henderson, Oakland	11,730

Lavatories
Branagh & Hudson Oakland (ea.) \$1785
Richard Chivers, Carmel (ea.) 1807
H. D. Coon, Carmel (ea.) 1825
Hooke & Hooke, Monterey (ea.) 1865
Albert Station, Oakland (each) 1920
Newman & Hasted, Pacific Grove (each) 1969

Richard Chivers, Pacific Grove	2080
H. H. Larsen Co., San Francisco	2500
T. B. Goodwin, S. F. (for one)	2475
(for the other)	2525
Theo. Johanns, S. F. (each)	2876
W. P. Vaughn, Oakland (each)	2900
H. P. Henderson, Oakland (each)	3170
for the Minton Co., Palo Alto (for the three buildings)	13,125
Thermotite Const. Co., San Jose (for the three buildings)	13,423
B. Berglund, Watsonville, (for the three buildings)	14,436

MONTEREY Monterey Co., Cal.—Bids will be asked soon by Constructing Quartermaster, at the Presidio of Monterey, for 2100 lin. ft. cement concrete or asphaltic concrete roadways at the Presidio of Monterey. Plans may be obtained from the Constructing Quartermaster on deposit of \$5.00.

FORT SHAFTER, T. H.—Henry Freitas, Honolulu, awarded contract by Constructing Quartermaster, Fort Shafter, to construct twelve commissioned officers' quarters and nine non-commissioned officers' quarters with utilities at Fort Shafter. The bid follows:

Henry Freitas, item 1, work, complete, \$270,000; 2, ded. for elimination of each C. O. quarters, \$12,250; 3, ded. for elimination of each N. C. O. quarters, \$6,000; 4, add for increasing each C. O. quarters, \$12,500; 4, do N. C. O. quarters, \$6,500; 5, ded. for change to each fill and mesh reinforcement C. O. quarters, \$120; 6, do F. O. quarters, \$130; 5, do N. C. O. quarters, \$70; 6, other bidders were: paving, add \$400; 7, floor staining, C. O., F. O., and N. C. O. quarters, 10c; accepted for items 1, 4a, 5a, and 7a for 1 set C. O. quarters; 5t, 2 sets of N. C. O. quarters; including item 8, unit prices, \$295,412.86. Other bidders were:

Moses Akiona, item 1, \$239,000; R. E. Woolley, item 1, \$280,088; Marks Construction Co., item 1, \$289,694; Walker & Olund, Ltd., item 1, \$294,900; Sanke & Co., Ltd., item 1, \$301,861; J. L. Young Eng. Co., Ltd., item 1 \$337,000.

Sub-Contracts Awarded.

POSTOFFICE Cont. price, \$545,200
OAKLAND, Alameda Co., Calif. 12th, 13th, Alice and Jackson Sts.
Superstructure of class A postoffice (terra cotta exterior).

Owner—United States Government.
Plans by Supervising Architect, Treasury Dept., Washington, D. C.
Contractor—K. E. Parker, 135 South Park, San Francisco.
Painting—A. A. Zelinsky, 4420 California St., San Francisco.
Ornamental Iron—Liberty Ornamental Iron Works, 21st and Filbert Sts., Oakland.

As previously reported, structural steel awarded to Junson Pacific Co., 603 Mission St., San Francisco; heating to J. H. Pinkerton, 927 Howard St., San Francisco; plumbing to J. A. Fazio, 402 Clark St., Oakland; terra cotta to N. Clark & Sons, 116 Natoma St., San Francisco; brick work to White & Gloor, Monadnock Bldg., San Francisco; aluminum work, steel windows and hollow metal doors to A. H. Meyn Co., 163 2nd St., San Francisco; marble to Jos. Musto Sons-Keenan Co., 635 North Point St., San Francisco; steel forms, Steelform Contracting Co., Monadnock Bldg., San Francisco.

MARE ISLAND, Cal.—Construction contemplated at the Mare Island Navy Yard and for which funds will be available on July 1 is announced by Captain C. W. Fisher, yard manager, as follows:

Replace roof, pipe and copper shop, \$170,000.
Install drainage and automatic elevator, Bldg. 271, \$5100.
Remodel electric shop, Bldg. 105, \$400
Improve and fit out foundry, Bldgs. 123 and 335, \$3500.
Renew roof and repair floor, ship-building lobby, Bldg. 64, \$6000.
Renew lower floor, electrical shop, Bldg. 101, \$2000.
Renew or repair roofs, Bldgs. 87, 89 and 31, \$20,000.
Fill basement and place concrete floor, Bldg. 71, \$18,000.
Other improvements will start as soon as plans are completed.

ALBUQUERQUE, N. M.—March Bros. Const. Co., Railway Exchange Bldg., St. Louis, awarded general contract at \$660,000 by U. S. Veterans' Bureau for the construction of the Veterans' Hospital at Albuquerque, N. M.
T. H. Meyer Co., 635 S. Preston St., Louisville, Ky., at \$279,946 awarded plumbing, heating and electrical work.

SAN FRANCISCO—Until June 29, 11 A. M., bids will be received by Con-

structing Quartermaster, Fort Mason, for dredging at U. S. Army Transport Docks at Fort Mason.

Complete Bid Listing (3 low bidders previously reported).
POSTOFFICE Cont. price, \$—
SALT LAKE CITY, Utah.
Extension and remodeling of class A post office, courthouse, etc.
Owner—United States Government.
Architect—Supervising Architect, Treasury Department, Washington D. C.

Complete Bid Listing
Orndorff Const. Co., 437 S Hill St., Los Angeles, \$815,000.
Murch Bros. Const. Co., St. Louis, Mo., \$226,000.
Wm. MacDonald Const. Co., St. Louis Mo., \$835,100.
Fleisher Eng. & Const. Co., Chicago, \$850,000.
Geo. A. Whitmeyer & Sons Co., Ogden, Utah, \$823,111.
Jacobson Const. Co., Salt Lake City, \$874,000.
Devault-Deitrick, Inc., Canton, Ohio, \$875,000.

Ralph Sollitt & Son Const. Co., Chicago, \$895,993.
Schuler & McDonald, Inc., Oakland, Calif., \$900,000.
Jas. J. Burke & Co., Salt Lake City, \$932,311.
T. G. Rowland & Co., Salt Lake City \$951,505; using Utah granite, \$196,620 additional.

Complete Bid Listing (3 low bidders previously reported).
POSTOFFICE Cont. price, \$—
ASTORIA, Oregon.
Demolition of old, and construction of new postoffice, custom house, etc.
Owner—United States Government.
Architect—Supervising Architect, Treasury Department, Washington D. C.

(1) terra cotta; (2) sandstone.
Complete Bid Listing
Hallbauer-Li Bahne, Inc., 344 Rush St., Chicago, item (1) \$211,000; item (2) \$223,400.
L. H. Hoffman, Portland, Ore., (1) \$218,500; (2) \$230,500.
Wm. T. Post, Tacoma, Wash., (1) \$215,000; (2) \$248,500.
Plains Const. Co., Pampa, Texas, (1) \$219,270; (2) \$229,270.
A. F. Mowat, Seattle, Wash., (1) \$231,000; (2) \$243,000.

Pelphs-Drake Co., Minneapolis, Minn. (1) \$233,000; (2) \$245,000.
O. P. Larson & Son, Co., Olympia, Wash., (1) \$233,436; (2) \$252,436.
Oscar R. Wayman, Portland, Ore., (1) \$238,097; (2) \$254,741.
Schuler & McDonald, Inc., Oakland, Calif., (1) \$239,000; (2) \$273,000.
O. P. Larson & Son, Tacoma, Wash., (1) \$239,300; (2) \$252,300.
Pacific States Const. Co., Seattle, Wash., (1) \$242,650; (2) \$277,650.
The Gilpin Const. Co., Portland, Ore. (1) \$244,300; (2) \$259,500.
Wm. MacDonald Const. Co., Saint Louis, Mo., (1) \$245,726; (2) \$260,000.
Dougan-Hammond Const. Co., Portland, Ore., (1) \$258,000; (2) \$265,000.
George Isackson, Portland, Ore., (1) \$259,900; (2) \$267,000.
Robertson, Hay & Wallace, Portland, Ore., (1) \$270,336; (1) \$297,756.
A. Guthrie & Co., Inc., Portland, Ore., (1) \$306,353; (2) \$331,353.

Contracts Awarded.
STORE HOUSE Cont. Price, \$16,694
MOTERBERG, Monterey Co., Cal. Preside of Monterey.
One camp store house and lavatory buildings.
Owner—United States Government.
Plans by Constructing Quartermaster, Preside of Monterey.
Storehouse—Newman & Halstead, Pacific Grove, at \$7093.
Lavatories—Branch & Hudson, 184 Perry St., Oakland, at \$3596.
Branch & Hudson desire subbids on plumbing and electrical work.

WASHINGTON, D. C.—Bids are being received by Bureau of Supplies & Accounts, Navy Dept., Washington, D. C., to furnish and deliver miscellaneous supplies and equipment for Navy Yards and Stations as noted in the following schedules, further information being available from the Navy Purchasing Officer, 100 Harrison St., San Francisco:

Bids Open June 23
Western yards, admiralty metal condenser tubes; sch. 5346.
Western yards, wrenches; sch. 5792
San Francisco, \$8,730 lbs. steel angles and 2650 lbs. steel channels; sch. 5861.
Mare Island, 150 plateglass mirrors; sch. 5866.
Mare Island, 60 breast drills; Puget Sound, 30 do; and dining room (No. 10) hand drills; Puget Sound, do; sch. 6583.
Mare Island, parts for motor boat gasoline engines; sch. 5804.
Puget Sound, 6 barber chairs; sch. 5864.
San Francisco, black plate steel; sch. 5860.

Contract Awarded.
REPAIRS Cont. Price, \$1120
SAN FRANCISCO. Letterman General Hospital
The and wainscoting in main kitchen (No. 9) and dining room (No. 10).
Owner—United States Government.
Plans by Constructing Quartermaster, Fort Mason, San Francisco.
Contractor—Malott & Peterson, 2221 20th St., San Francisco.

PUGET SOUND, Wash.—See "Machinery and Equipment," this issue. Bid opening for cranes for Puget Sound Navy Yard postponed from June 3 to June 17.

SAN DIEGO, Calif.—See "Waterworks," this issue. Bids wanted by Bureau of Yards and Docks, Navy Department, Washington, D. C., for 400,000 gallon steel tank for Naval Operating Base (Fuel Depot), San Diego.

LAS VEGAS, Nevada—Treasury Department, Office of dit Supervising Architect, Washington, D. C., will advertise for bids within a few days for the construction of the new U. S. post office building at Las Vegas. It will be a two-story structure, faced with brick and terra cotta.

HALLS AND SOCIETY BUILDINGS

Contract Awarded.
MEMORIAL Cont. price, \$14,400
VACAVILLE, Solano Co., Cal.
One-story and basement Veterans' Memorial Building.
Owner—County of Solano.
Architect—Kent & Hass, 525 Market St., San Francisco.
Contractor—Geo. D. Hudnut, 1915 S St., Sacramento.

Preliminary Sketches Being Prepared.
COUNTRY CLUB Cont. \$—
SANTA CRUZ, Santa Cruz Co., Cal.
Two-story and basement frame and stucco clubhouse.
Owner—Withheld.
Architect—Frederick H. Reimers, 233 Post St., San Francisco.

Bids Opened—Contract Awarded.
MEMORIAL BLDG. Cont. price \$13,944
AUBURN, Placer Co., Cal.
One-story and basement frame and stucco Veterans' Memorial Bldg.
Owner—County of Placer.
Architect—W. E. Coffman, Forum Bldg., Sacramento.
Contractor—Newman & Halstead, Pacific Grove, Roseville.
Following is a list of the bids:
J. M. Stoffels, Roseville.....\$13,944
J. P. Morton, Placerville.....14,036
Geo. Kopp, Sacramento.....14,110
M. R. Peterson, Sacramento.....16,653

Completing Plans.
MEMORIAL BLDG. Cost, \$17,000
FORT BRAGG, Mendocino Co., Cal.
One-story concrete veterans' Memorial
building (concrete walls, T. C. tile
roof, maple floors, furnace heat).
Owner—County of Mendocino.

Architect—F. L. Dragon, Mercantile
Bank Bldg., Berkeley.
Plans will be out for bids when ap-
proved June 9, 1931.

Preliminary Plans Being Revised.
COMMUNITY CENTER COST, \$650,000
SAN FRANCISCO, California Street
and Presidio Avenue

Two-story and basement reinforced
concrete community center.
Owner—Jewish Community Center,
Sidney M. Ehrman, chairman, 68
Post Street.

Architects—Hyman and Appleton, 68
Post St., and Arthur Brown, Jr.,
251 Kearny St.

Building will contain gymnasium,
swimming pool, handball courts, auditor-
ium, theatre, club rooms, lecture
hall, game rooms, lounge rooms and
kitchen.

Taking Bids.
ALTERATIONS Cost, \$—
BURLINGAME, San Mateo Co., Cal.
Remodel one-story frame and stucco
clubhouse.

Owner—County of San Mateo (Ameri-
can Legion).
Architect—E. L. Norberg, 50 Market
St., San Francisco.

June 11, 1931
Plans To Be Prepared.
LEGION HALL Cost, \$—
TULARE, Tulare Co., Cal.

American Legion Memorial Hall.
Owner—Tulare Post, American Legion,
Walter Sunkel, chairman of Wel-
fare Committee, Tulare.
Architect—Not Selected.

Low Bidders.
REMODELING Cost, \$18,000
SANGER, Fresno Co., Cal.
Remodel Kittle Bldg. for lodge hall.

Owner—Sanger Lodge of Masons, No.
216, Olin McClendon, Master.
Architect—Swartz and Ryland, Brix
Bldg., Fresno.

Plans will provide for lodge and club
rooms, ladies' lounge, banquet hall and
kitchen. The exterior of the structure
will be remodeled for the Spanish type
of architecture with a stucco finish
and tile roof.

Following is a complete list of bids:
General Work
E. J. Hefner, 252 N Broadway,
Fresno \$11,272

Plumbing
Sanger Plumbing Co., Sanger \$1,725
Electric Wiring
Electric Con. Co., 125 H Street,
Fresno \$1,297

Mill Work
Hollenbeck-Bush Planning Mill Co.
Van Ness & Lorena, Fresno \$3,115

Roofing
Faris-Osborne Co., Inc., 720 Fulton
St., Fresno \$649

Painting
J. Stueffer, Sanger \$965

Lathing and Plastering
F. Low, 2344 Alta St., Fresno \$4,586
Bids held under advisement.

HOSPITALS

SACRAMENTO, Cal.—Until June 15,
10 A. M., bids will be received by H.
Wall, county clerk, to construct
storage vault for X-ray films at the
county hospital. Certified check 10%
payable to Chairman of the Board of
Supervisors required with bid. Plans
of tainable from County Engineer Chas.
Detarding, Jr., at Sacramento.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$60,000
ANTIOCH, Contra Costa Co., Cal. On
Sixth Street Extension.

One-story hospital unit, 36x20-ft. and
remodel residence for hospital
quarters.

Owner—Mrs. J. A. Brooks, Antioch.
Private Plans.

Contractor—Geo. M. Field, Antioch.
The new structure will contain six
private rooms including hospital equip-
ment and X-ray quarters. A residence
now on the site will be remodeled for
a maternity ward to provide accom-
modations for 24 patients.

Lumber and Millwork—Antioch Lbr.
Co., Antioch.

Plumbing—W. H. Peasley, Antioch.
Heating & Ventilating—Martinez Sheet
Metal Works.

Plans Being Figured—Bids Close July
14, 10 A. M.

HOSPITAL UNIT Cost, \$150,000
FRESNO, Fresno Co., Cal.
Crippled Children's and Surgery Bldg.
for County Hospital.

County of Fresno, D. M. Barnwell,
county clerk.

Architect—Swartz and Ryland, Brix
Bldg., Fresno.
Bids are being received under thir-
teen segregations, including general
contract, brickwork, plumbing, heat-
ing and ventilating, electrical work,
terra cotta tile roofing, lathing and
plastering, millwork, floor covering,
elevators, tile flooring and wainscot-
ing and painting.

Under the specifications, preference
is to be given Fresno materials and
labor. Employees must be citizens and
must have resided in Fresno county at
least six months. Plans are obtain-
able from the architects.

Completing Working Drawings.
ADDITION Cost, \$60,000
IONE Amador Co., Cal.

Additional units at Preston State
School of Industry.
Owner—State of California.
Architect—R. G. De Lappe, 1710 Frank-
lin St., Oakland.

Contracts Awarded.
WARD UNIT Cost, \$—
TALMADGE, Mendocino Co., Cal.
Two-story concrete Ward Bldg. No. 14.
Owner—State of California.

Architect—State Department of Public
Works, Division of Architecture,
Geo. B. McDougall, state architect,
Public Works Bldg., Sacramento.
General Contractor—The Minton Co.,
Mountain View.

The building is two stories with con-
crete floors and walls, concrete and
tile partitions, wood roof construction
and tile roof. The total floor area is
approximately 16,500 sq. ft.

Heating—Geo. C. Bell, 1826 E 15th St.,
Oakland.

Electrical—Roy M. Butcher, 1020 Sher-
wood, San Jose.

Plumbing—J. A. Fazio, 402 Castro St.,
Oakland.

Plans Completed.
HEALTH CENTER Cost, \$800,000
SAN FRANCISCO, Polk and Grove
Streets.

Four-story and basement reinforced
concrete Class A health center,
emergency hospital and office
(granite facing).

Owner—City and County of San Fran-
cisco.
Architect—S. Heiman, 57 Post St., San
Francisco.

Constr. Engineers—Ellison & Russell,
Pacific Bldg., San Francisco.

Final plans have been submitted to
the city. Will probably ask for bids
in about two weeks.

Plans Being Figured—Bids Close June
22, 11 A. M.

REFRIGERATOR Cost, \$—
SAN JOSE, Santa Clara Co., Cal.
Furnish and install ice making and
refrigerating plant for service
building at Santa Clara County
Hospital.

Owner—County of Santa Clara, Henry
A. Flister, County Clerk.

Architect—Not Given.
Certified check 10% payable to
county clerk required with bid. Specifi-
cations on file in office of clerk.

Bids Opened—Held Under Advisement
COMMISSARY BLDG. Cost, \$—
ELDRIDGE, Sonoma Co., Cal. State
Hospital Grounds.

One-story brick commissary building.
Owner—State of California.

Plans by State Department of Public
Works, Division of Architecture,
Geo. B. McDougall, State Archi-
tect, Public Works Building, Sacra-
mento.

Low Bidder—Wm. Spivock, H o b a r t
Bldg., San Francisco, \$19,870.

Following is a complete list of bids:
Wm. Spivock, S. F. \$19,870
J. J. Groden, Alameda \$20,200
Geo. Swanstrom, Oakland \$20,675
Frank Cress, Oakland \$21,100
The Minton Co., Palo Alto \$21,289
Otis A. Smith, San Rafael \$21,400
H. H. Hennis, Stockton \$21,650
O. S. Almie, San Francisco \$21,683
Vogt & Davidson San Francisco \$22,231
E. T. Leiter & Son, Oakland \$22,327
A. Nelson, San Francisco \$22,640
A. P. Fischer, San Francisco \$22,980
M. E. Peterson, Sacramento \$24,545

This building will be one-story with
concrete first floor and foundations,
brick walls, steel and wood roof con-
struction and slate roof. Floor area
is approximately 6500 sq. ft.

AUBURN, Placer Co., Cal.—County
supervisors have cancelled contract
with W. H. Weeks, architect, for plans
for proposed new county hospital.

Sub-Bids Wanted.
ADDITION Cost, \$17,000
OAKLAND, Alameda Co., Cal. 15th
and Poplar Streets.

Addition to detention home.
Owner—County of Alameda.

Architect—H. H. Meyers, Kohl Bldg.,
San Francisco.

A. Holyoake, Box 517-B, East Ave.,
Hayward, general contractor, desires
sub-bids in connection with above, for
which general bids are to be opened
June 20, 10:30 A. M.

HOTELS

CARSON CITY, Nev.—John T. Read,
Reno, real estate operator, is negoti-
ating for the purchase of the site in N
Carson St. west of the V & T depot
on which he proposes to erect a mod-
ern hotel. 3

Preparing Plans.
HOTEL Cost, \$—
LAS VEGAS, Nevada. Second and
Fremont Streets.

Three-story and basement reinforced
concrete hotel.

Owner—P. O. Silvagni, Las Vegas.
Architect—A. L. Worwolek, Las Vegas

ICE AND COLD STORAGE
PLANTS

SAN JOSE, Santa Clara Co., Cal.—
See "Hospitals," this issue Bids
wanted by county supervisors to fur-
nish and install ice making and refrig-
erator plant for Service Building at
County Hospital Grounds.

POWER PLANTS

PASADENA, Cal.—Until June 26, 11
A. M., bids will be received by city
directors to furnish and install steam
condenser at the Municipal Light
Plant. Bids are to be submitted on a
2-pass steel plate shell surface con-
denser with two unequal circulating
pumps and appurtenances. Specifi-
cations obtainable from Benj. F. Delany
plant superintendent. Bids previously
received were rejected.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

Plans Being Figured—Bids Close July 7, 2 P. M.

ARMORY Cost, \$—
One-story concrete armory (floor area 7000 sq. ft.)

Owner—State of California.
Architect—State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento (Geo. B. McDougall, State Architect).

The building is one-story with concrete floor and walls, steel and wood roof construction, tile and composition roof.

ALAMEDA, Alameda Co., Calif.—Board of Library Trustees, Dr. Harold A. Miller, president, has petitioned city council to provide funds in 1931-1932 budget to finance construction of a new library in the western section of the city. The present library quarters are maintained in a leased building.

Completing Preliminary Plans.
HALL OF RECORDS Cost, \$300,000
MARTINEZ, Contra Costa Co., Cal.
Two-story and basement class A Hall of Records.

Owner—County of Contra Costa.
Architect—E. G. Bangs, 411 30th St., Oakland.

Preparing Working Drawings.
LIBRARY Cost, \$11,000
NEW MONTEREY, Monterey Co., Cal.
One-story frame and stucco library
Owner—City of New Monterey.
Architect—Swartz & Ryland, Spazier Bldg., Monterey.

SAN QUENTIN, Marin Co., Calif.—Golden Gate Iron Works, 1541 Howard St., San Francisco, at \$11,055 submitted lowest bid to State Purchasing Dept., Sacramento, for furnishing miscellaneous iron and structural steel at the dining hall at the San Quentin Prison.

Following is a complete list of bids:
Golden Gate Iron Works, S. F. \$11,055
Dyer Bros. Iron Works, S. F. 12,899
Herrick Iron Works, Oakland, 12,841
Judson Pacific Co., S. F. 15,150
Minneapolis Steel Co., S. F. 13,366
Pacific Coast Steel Co., S. F. 13,769
Schrader Iron Works, S. F. 14,223
Mortensen Const. Co., S. F. 15,019
McClintic-Marshall Co., S. F. 15,020
Monarch Iron Works, S. F. 15,509
Bids held under advisement.

Plumbing, Heating and Ventilating Bids Opened.
LEGION BLDG. Cost, \$2,500,000
SAN FRANCISCO, Civic Center.

Four-story and basement concrete class A Legion Building.
OPERA HOUSE Cost, \$2,500,000
Six-story class A opera house, seating capacity, 4000; standing room, 500.

Owner—City and County of San Francisco (S. F. War Memorial).
Architect—G. A. Lansburg, 140 Montgomery St., and Arthur Brown, 251 Kearny St.

Mgrs. of Const.—Lindgren & Swinerton, Inc., 225 Eush St.

Following is a complete list of bids:
Plumbing

(a) Opera House (b) Veterans' Memorial.
Anderson & Rowe, 45 Belcher St. (a) \$80,915; (b) \$64,442.
C. Peterson (a) \$33,861; (b) \$73,252.
T. C. Douglass (a) \$36,256; (b) \$71,250.
Scott Co., (a) \$58,811; (b) \$74,637.
Turner Co. (a) \$99,892; (b) \$75,969.
F. W. Snook (a) \$100,447; (b) \$81,264.

Herman Lawson (a) \$102,000; (b) \$88,500.

Heating and Ventilating

(a) Opera House; (b) Veterans' Memorial.
James A. Nelson, 10th and Howard Sts. (a) \$88,633; (b) \$133,227.
T. C. Douglass (a) \$93,445; (b) \$135,970.

Anderson & Rowe (a) \$96,497; (b) \$139,303.
Scott Co. (a) \$97,287; (b) \$143,897.

O'Mara & Stewart (a) \$99,675; (b) \$143,765.
C. Peterson (a) \$99,958; (b) \$147,761.

F. W. Snook (a) \$102,429; (b) \$144,258.

Turner Co. (a) \$102,508; (b) \$148,668.
Herman Lawson (a) \$103,000; (b) \$145,900.

G. A. Schuster, Oakland (a) \$104,590; (b) \$149,890.

There were numerous alternates submitted on different types of equipment.

Bids held under advisement.

Contract Awarded.
LIBRARY Cost, \$133,887
CLAREMONT, Los Angeles Co., Cal.
Ninth St. and College Ave.
Library.

Owner—Claremont Colleges.
Architect—Gordon B. Kaufman, Union Bank Bldg., Los Angeles.
Contractor—Vurster Const. Co., Architects Bldg., Los Angeles.

SAN JOSE, Santa Clara Co., Cal.—Alfred J. Coffey, architect, Phelan Bldg., San Francisco, in a communication to the county supervisors requests that he be considered in the selection of an architect for the proposed new county courthouse to replace the structure recently destroyed by fire.

RESIDENCES

Plans Being Figured—Bids Close June 20.

RESIDENCE Cost, \$7500
SAN RAFAEL, Marin Co., Cal.
Two-story and basement frame and stucco residence (6 rooms, part tile roof, tile baths, gas and hot air heating).

Owners—Mr. and Mrs. Campion, San Rafael.

Architect—Charles Strothoff, 2274 15th St., San Francisco.

Plans Being Figured—Bids Close June 19.

RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal. Kirkwood Avenue.

One-story and basement frame and stucco residence (5 rooms).

Owner—E. B. Gills, 1160 Spruce St., Berkeley.
Architect—Frederick H. Reimers, 233 Post St., San Francisco.

Sub-Bids Being Taken.
ADDITION Cost, \$22,000
ATHERTON, San Mateo Co., Cal.
Camino El Lago.

Remodeling two-story residence (add four rooms) and landscaping.

Owner—Mrs. Evan Williams, Camino El Lago, Atherton.

Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.
Contractor—M. Weeden, Roble St., Menlo Park.

Sub-Contracts Awarded.
Sub-Bids Wanted.

RESIDENCE Cost, \$14,000
PALO ALTO, Santa Clara Co., Calif.
Two-story and basement frame and stucco residence (shakes roof, gas heating system; 7 rooms, 2 baths).

Owner—Alf. Weihs, Palo Alto.
Architect—Chas. K. Sumner, 57 Post St., San Francisco.

H. S. Shain, 54 Arlett Ave., Hayward, desires sub-bids on all portions of the above work.

ward, desires sub-bids on all portions of the above work.

Other bidders, as previously listed, are J. H. McFarland, 291 27th Ave., San Francisco; Wm. Short, 2121 Waverly St., Palo Alto; E. J. Schmalling, 872 McVilly Ave., Palo Alto; H. L. Post, 1330 Webster St., Palo Alto; The Milton Co., Addison Ave., Palo Alto; W. P. Goodenough, 310 University Ave., Palo Alto; L. A. Bacheider, 1152 Fulton St., Palo Alto; F. W. Fox, 1101 Waverly St., Palo Alto.

Plans Being Figured.
RESIDENCE Cost, \$7000
STOCKTON, San Joaquin Co., Cal.

Two-story and basement frame and brick veneer residence (English type; shingle roof, hot air heating, steel window sash).

Owner—Edw. Van Vranken.
Architect—Jos. Losekam, 1218 West Harding St., Stockton.

Sub-Contracts Awarded.
RESIDENCE Cost, \$10,000
PALO ALTO, Santa Clara Co., Cal.

Two-story and basement frame and stucco residence (7 rooms and 2 baths; shingle roof, electrical refrigeration).

Owner—A. C. Taft
Plans by H. K. Dabinett, 2350 S Court St., Palo Alto.

Contractor—H. K. Dabinett.
Electrical Work—Denton Elec. Co., Palo Alto.

Plumbing—John L. Ingram, Palo Alto.
Heating—Stanford Sheet Metal Wks., Palo Alto.

Tiles—Mott & Peterson, 3221 20th St., San Francisco.
Plastering—Ira T. Bridges, Palo Alto.
Painting—Wiley & Opperman, Palo Alto.

Sub-Bids Wanted.
BUNGALOW COURT Cost \$55,000
SAN CARLOS, San Mateo Co., Cal.
One-story frame and stucco bungalow court.

Owner—Robert Klassen.
Architect—Ernest Norberg, 550 Market St., San Francisco.

Contractor—George W. Williams Co., Ltd., 1404 Broadway, Burlingame.

Sub-bids wanted on electrical wiring and tile work. Contracts already awarded as follows:

Lumber—San Carlos Lumber Co., San Carlos.
Concrete—Gus Adolphson, San Mateo.

Preparing Plans.
RESIDENCE Cost, \$15,000
PALO ALTO, Santa Clara Co., Cal.

Two-story and basement frame and stucco residence (8 rooms and 2 baths; Colonial type).
Owner—Withheld.
Architect—Guy Koepf, Carmel.

Preparing Plans.
RESIDENCES Cost, \$5800 to \$7900
BURLINGAME, San Mateo Co., Cal.
Palm Drive and Oak Grove Ave.

Twenty-two one-story and basement frame and stucco residences (six rooms; English type; gas furnace, shingle roof, hardwood floors, tile kitchen and bath).

Owner and Builders—George W. Williams Co., 315 Primrose Road, Burlingame.

Architect—John K. Ballantine, Jr., 137 Harlan, San Francisco.
Expect to begin work on first eight houses about June 15.

Plans Being Figured.
RESIDENCE Cost, \$6500
LODI, San Joaquin Co., Cal.

One and one-half-story frame and stucco residence (6 rooms; shingle roof, gas heating system).

Owner—Withheld.
Architect—V. Galbraith, Elks Bldg., Stockton.

Plans Being Figured—To Close June 29.
RESIDENCE Cost, \$—
SAN FRANCISCO. Clayton and Villa Terrace.
 Two-story and basement frame and stucco residence (6 rooms, and 2 baths, double garage; tile roof, hardwood floors, gas heating system, standard sanitary plumbing).
 Owner—F. M. Pardy, 545 Dewey Blvd.
 Architect—John H. Thomas, Mercantile Bank Bldg., Berkeley.
 Prospective bidders are as follows:
 Emil Person, 829 San Luis Road, Berkeley.
 W. B. Wells, 762 Ensenada, Berkeley.
 H. K. Henderson, 20 Avis Rd., Berkeley.
 Mac. Jordan, 80 Rock Lane, Berkeley.
 C. O. Bradhoff, 911 55th St., Oakland.
 James Pearson, Berkeley.

Tile & Hardwood Floor Bids Wanted
RESIDENCE Cost, \$8000
OAKLAND, Alameda Co., Cal. SE Vicksburg and Ygnacio Ave.
 One-story and basement frame and stucco residence (7 rooms).
 Owner—Withheld.
 Architect—Not Given.
 Contractor—G. H. Wendt, 2126 Bancroft Way, Oakland.
Roofing—W. L. Saxby, 4538 Fleming Ave., Oakland.
Plastering—L. L. Parish, 1951 82nd Ave., Oakland.

Completing Plans
RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. Claremont District.
 Two-story and basement English style residence (8 rooms and 2 baths).
 Owner—John E. Dinwiddie, 2816 Prince St., Berkeley.
 Architect—John E. Dinwiddie, 2816 Prince St., Berkeley.

Plans Being Figured.
RESIDENCE Cost, \$8500
OAKLAND, Alameda Co., Cal. Montclair District.
 Two-story and basement frame and stucco residence (6 rooms and 2 baths; gas hot air heat, tile roof, electric refrigerator).
 Owner—Chas. B. Gillean, 2629 Dwight Way, Berkeley.
Plans by A. L. Herberger, 770 Wesley Ave., Oakland.

Completing Plans
RESIDENCE Cost, \$10,000
SAN FRANCISCO. Seacliff District.
 Two-story and basement frame and stucco residence (8 rooms and 2 baths; Italian style).
 Owner—Withheld.
 Architect—John E. Dinwiddie, 2816 Prince St., Berkeley.

Preparing Plans.
RESIDENCE Cost, \$50,000
WEST LOS ANGELES, Cal. Holmby Hills.
 Two-story and basement frame and stucco residence.
 Owner—Withheld.
 Architect—Rollin Pearson, 6763 Hollywood Blvd., Los Angeles.

Construction Postponed Indefinitely.
RESIDENCE Cost, \$—
SAN FRANCISCO. 2423 Leavenworth Street.
 Two-story frame residence (single exterior; 14 rooms, 3 baths; hot air heat, electric refrigerator).
 Owner—M. C. Leventritt, 1155 Jones Street.
 Architect—W. S. Wellington, 210 Post Street.

Plans Being Figured.
RESIDENCE Cost, \$6500
SAUSALITO, Marin Co., Cal.
 One-story and basement wood frame residence (5 rooms, tile roof, hot air heat, gas furnace).
 Owner—Withheld.
 Architect—Wm. I. Garren, 233 Post St. San Francisco.
 Young and Horstmeyer, 461 Market St., San Francisco, one of the general contractors who will submit bids, desire sub-bids on all portions of the work.

To Take Bids In One Week.
RESIDENCE Cost, \$6000
MODESTO, Stanislaus Co., Cal.
 One-story and basement frame and stucco residence (Spanish type; 6 rooms, tile bath, tile roof).
 Owner—R. E. Cadrett, 418 Sycamore St., Modesto.
 Architect—C. N. Hilburn, Elks Bldg., Modesto.

Contract Awarded.
RESIDENCE Cost, \$11,000
PIEDMONT, Alameda Co., Cal. Wildwood Gardens.
 Two-story and basement frame and stucco residence.
 Owner—Miss M. Dugrey, Oakland.
 Architect—Blaine & Olsen, 1755 Broadway, Oakland.
 Contractor—Edward Larmer, 90 Fairview Ave., Piedmont.

Taking Segregated Figures.
RESIDENCE Cost, \$15,000
SAN FRANCISCO. Wawona and Vicente Aves.
 Two-story and basement frame and stucco residence (7 rooms, 3 baths double garage, tile and composition roof, hardwood floors, gas hot air heating and tiled baths).
 Owner and Builder—S. R. Anderson, 1433 Seventh Ave., San Francisco
 Private plans.

Contract Awarded.
RESIDENCE Cost, \$41,000
PALO ALTO, Santa Clara Co., Cal.
 Two-story and basement frame and stucco residence (shakes roof, gas heating system; 7 rooms, 2 baths).
 Owner—Alf. Weihs, Palo Alto.
 Architect—Chas. K. Sumner, 57 Post St., San Francisco.
 Contractor—Wm. Short, 2121 Faverly St., Palo Alto.

Contract To Be Awarded.
RESIDENCE Cost, \$15,000
STOCKTON, San Joaquin Co., Cal. Oxford Manor.
 Two-story and basement frame and stucco residence (9 rooms).

Owner—G. F. Schuler, 1130 E-Weber St., Stockton.
 Architect—Jos. Loskann, 1218 West Harding St., Stockton.
 Contractor—T. R. Williamson, Stockton.

Architects Name Omitted.
Taking Segregated Figures.
RESIDENCE Cost, \$20,000
OAKLAND, Alameda Co., Cal. Claremont Pines.
 Two-story and basement frame, stucco and brick veneer residence (10 rooms and 4 baths; single tile roof; redwood paneling; hot air or steam heat; electric refrigeration; hardwood floors).
 Owner—Withheld.
 Architect—Masten & Hurd, 210 Post St., San Francisco.

Preparing Preliminary Drawings.
RESIDENCE Cost, \$18,000
PALO ALTO, Santa Clara Co., Cal. Cowper Street.
 Two-story and basement frame and stucco residence (Italian architecture) (iron work, hardwood floors, 3 tile baths, tile roof, gas hot air heating).
 Owner—Cleveland Smith, President Hotel, Palo Alto.
 Architect—Treichel & Goodpaster, 1540 San Pablo Ave., Oakland.

Plans Completed.
RESIDENCE Cost, \$8000
PALO ALTO, Santa Clara Co., Cal.
 One-story and basement frame and stucco residence (Spanish type) (tile and composition roof, hardwood floors, tile baths, gas heat)
 Owner—Cleveland Smith, President Hotel, Palo Alto.
 Architect—Treichel & Goodpaster, 1540 San Pablo Ave., Oakland.
 Owner will take segregated figures shortly.

Contract Awarded. Cost, \$5500
DALY CITY, San Mateo Co., Cal. Livingston Street.
 One-story and basement frame and stucco residence (6 rooms, tile and composition roof, tile baths, hardwood floors, gas furnace).
 Owner—Pasqual Scalia.
 Architect—Geo. Cantrell, 45 2nd St., San Francisco.
 Contractor—Carl Carlson, 59 Rice St., Daly City.

Plans Being Figured.
RESIDENCE Cost, \$12,000
JACKSON, Amador Co., Cal.
 Two-story and basement frame and stucco residence (7 rooms).

ORNAMENTAL WIRE AND IRON WORK

IRON WIRE Fence and Gates

TENNIS COURT ENCLOSURES
 WIRE SCREENS AND GUARDS

WEST COAST WIRE & IRON WORKS

SAN FRANCISCO, CALIFORNIA

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Continuous Operation Since 1887

Owner—Calvin Jackson, Jackson.
 Architect—Harry Devine, California
 State Life Bldg., Sacramento.
 Plans will be ready for bids June 6.

Taking Bids.
 RESIDENCE Cost, \$20,000
 OAKLAND, Alameda Co., Cal. Clare-
 mont District.

Two - story and basement frame and
 stucco residence (9 rooms and 3
 baths; hardwood floors, tile baths,
 gas hot air furnace, electric re-
 frigerator).

Owner—W. S. Andrews, 260 California
 St., San Francisco.
 Architect—Raymond Jeans, 605 Mar-
 ket St., San Francisco.

Completing Plans.
 RESIDENCE Cost, \$5500
 SAN FRANCISCO. Cal. Westgate Dr.
 One - story and basement frame and
 stucco residence (6 rooms, tile and
 composition roof, gas hot air heat-
 ing, hardwood floors).

Owner and Builder—August Hallgren,
 1594 20th Ave.
 Architect—Not Given.

SCHOOLS

Plans Complete.

INTERIOR FINISHING Cost, \$30,000
 HOLLISTER, San Benito Co., Cal.
 Interior finishing of two-story rein-
 forced concrete school building
 (plastering, woodwork, plumbing,
 heating, painting).

Owner—Hollister School District.
 Architect—W. H. Weeks, 111 Sutter
 St., San Francisco.
 Expect to be ready for bids in one
 week.

Sub-Bids Wanted.
 COLLEGE Cost, \$45,000
 SANTA ROSA, Sonoma Co., Cal.
 Second unit of Junior College (to house
 six science laboratories and two
 classrooms; offices and rest rooms;
 brick construction; steam heat;
 tile roof).

Owner—Santa Rosa Junior College
 District.
 Architect—W. H. Weeks, 525 Market
 St., San Francisco.

Young & Horstmeier, 461 Market
 St., San Francisco, general contractors,
 desire sub-bids on all portions of
 the above work. Bids close June 29,
 7:30 P. M.

Contract Awarded.
 ALTERATIONS Cont. price, \$6853
 ALBANY, Alameda Co., Cal. 602 Po-
 mona Avenue.

Alterations to high school (changes in
 windows, metal stairway, remodel
 three bungalows).

Owner—Albany School District (L. J.
 Fletcher, Sect'y., Albany).
 Architect—P. L. Dracoin, Mercantile
 Bank Bldg., Berkeley.
 Contractor—J. D. Bishop, 1323 E 25th
 St., Oakland.

Bids Opened—Contract Awarded.
 ADDITIONS Cont. price, \$8570
 OILDALE, Kern Co., Cal.

Alterations and additions to existing
 school buildings.
 Architect—Charles Biggar, Haberfeld
 Bldg., Bakersfield.

Contractor—S. Severson, Redding.
 Following is a list of the bids:
 S. Severson, Redding..... \$ 8,570
 P. B. Harris, Cedarville..... 9,795
 Coyne, Miller & Strand, Bieber..... 11,125
 Harry Porter, Gerber..... 11,679
 Chadderton & Parsons, Bieber..... 13,777

SAN FRANCISCO.—Until June 22, 3
 P. M., under Proposal No. 730, bids
 will be received by Leonard S. Leavy,
 city purchasing agent, 270 City Hall,
 to furnish sheet metal shop supplies
 for School Department. Specifications
 obtainable from above office.

Bids Opened—Contract Awarded.
 SCHOOL Cont. price, \$18,883
 CLARKSHURG, Yolo Co., Cal.
 One-story brick addition to grammar
 school (add two classrooms).

Owner—Clarksburg Grammar School
 District.
 Architect—Charles De can, California
 State Life Bldg., Sacramento.
 Contractor—Geo. Hudnutt, 1915 S St.,
 Sacramento.

Following is a list of the bids:
 Geo. Hudnutt, Sacramento..... \$18,883
 Fred Betz, Sacramento..... 18,495
 Gene Kenyon, Sacramento..... 19,523
 C. J. Hopkins, Sacramento..... 19,897
 J. G. Motroni, Woodland..... 19,995
 M. B. Peterson, Sacramento..... 20,395
 Chas. Unger, Sacramento..... 20,990
 Lindgren & Swinerton, Sacto..... 22,100

Contract Awarded.
 SCHOOL Contract Price, \$2460
 SANTA ROSA, Sonoma Co., Cal. (Bur-
 bank Grammar School)
 Plumbing system for school and finish
 toilet rooms.

Owner—Santa Rosa School Dist., % F.
 O. Pryor, 1505 13th St., Santa Rosa
 Architect—Wm. Herbert, Rosenberg
 Bldg., Santa Rosa.

Contractor—H. Ahlstrom, 740 5th St.,
 Santa Rosa.
 W. H. Neeker, Santa Rosa, at \$2645.
 Only other bid was submitted by

ONTARIO, San Bernardino Co.,
 Cal.—Chaffey Union High School Dis-
 trict, Ontario, contemplates advertis-
 ing for bids within the next two
 months for the erection of the second
 unit of the Chaffey Junior College,
 Ontario. Plans are being prepared
 by Architects Allison & Allison, 1065
 California Reserve Bldg., Los Angeles.
 Cost is estimated at \$110,000.

Contract Awarded.
 LABORATORY BLDGS. \$500,000
 PASADENA, Los Angeles Co., Cal.
 East California Street.

Two three-story and basement rein-
 forced concrete laboratory build-
 ings.

Owner—California Institute of Techno-
 logy, Pasadena.
 Architect—Mayers, Murray & Phil-
 lips, 2 W-47th St., New York City
 Contractor—Wurster Constr. Co., 316
 W-Fifth St., Los Angeles.

Completing Plans.
 LIBRARY Cost, \$117,000
 CHICO, Butte Co., Cal. State Teach-
 ers' College.

One and two-room library and class-
 room building (20,000 sq. ft.).
 Owner—State of California.

Architect—Chester Cole, First Nat'l.,
 Bank Bldg., Chico.
 Brick construction, concrete floors,
 concrete pile foundation, terra cotta
 tile roof.

Plans will be ready for bids in
 about three weeks.

Contract Awarded.
 SHOP Cont. Price \$7999
 EMERYVILLE, Alameda Co., Cal.
 One-story shop (steel trusses, stucco,
 tile walls)

Owner—Emeryville High School Dist.
 Plans by Samuel Arnold, 3499 San
 Pablo Ave., Oakland.
 Contractor—Geo. Maurer, 50 York
 Drive., Oakland.

Sub-Bids Wanted.
 SCHOOL Cont. Price, \$16,375
 EMERYVILLE, Alameda Co., Cal.
 One-story brick elementary school (4
 classrooms).

Owner—Emeryville Elementary School
 District.

Plans by Samuel Arnold, 3499 San
 Pablo Ave., Oakland
 Contractor—Villadsen Brothers, 117
 Market St., San Francisco.

General contractor desires bids on
 concrete work, brick work and
 plastering.

Completing Plans.
 GYMNASIUM (1st unit) Cost, \$20,000
 CHICO, Butte Co., Cal.
 One-story brick gymnasium.

Owner—Chico Union High School Dist.
 Architect—Cole & Brouhard, 1st Na-
 tional Bank Bldg., Chico.

Taking Figures—Bids Close June 29,
 7:30 P. M.
 COLLEGE Cost, \$45,000
 SANTA ROSA, Sonoma Co., Cal.

Second unit of Junior College (to house
 six science laboratories and two
 classrooms; offices and rest rooms;
 brick construction; steam heat;
 tile roof).

Owner—Santa Rosa Junior College
 District.
 Architect—W. H. Weeks, 525 Market
 St., San Francisco.

Plans Being Figured—Bids Close June
 19, 8 P. M.

ADDITION Cost, \$—
 LAKEPORT, Lake Co., Cal.
 Two-classroom addition to school.

Owner—Lakeport Union School Dis-
 trict, Inez M. Anton, Clerk, Lake-
 port.

Architect—Not Given.
 Certified check or bid bond of 10%
 required with bid. Plans obtainable
 from clerk at Lakeport.

Contract To Be Awarded.
 SCHOOL ENTRANCE Cost, \$4500
 LOS GATOS, Santa Clara Co., Cal.
 Spanish type portico entrance for ele-
 mentary school (construct concrete
 stairway and exit doors).

Owner—Los Gatos Elementary School
 District.
 Architect—W. H. Weeks, 525 Market
 St., San Francisco.

Contractor—The Milton Co., 243 Ham-
 ilton, Palo Alto.
 Expect to award contract about June
 17.

“Gold Medal” Safety Scaffolding

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Lessor of Suspended and Swinging Safety “Gold Medal” Scaffolding.

Contract Awarded.
SCHOOL Cont. Price, \$12,490
 UKIAH, Mendocino Co., Cal. Redwood Valley District.
 One-story school (four classrooms and auditorium; reinf. concrete walls). Owner—Redwood Valley Union School District.
 Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.
 Contractor—C. F. Unger, 4532 T St., Sacramento

Planned.
ADDITION Cost, \$10,000
BAY POINT, Contra Costa Co., Cal. Addition to elementary school.
 Owner—Bay Point Elementary School District.
 Architect—James Narbett, 37 10th St., Richmond.
 Bond election will be held shortly to finance construction.

Contract Awarded.
ADDITION Cont. price, \$5211
MODESTO, Stanislaus Co., Cal. High School Site.
 One-story brick addition to high school.
 Architect—Davis-Pearce Co., Grant & Weber Sts., Stockton.
 Contractor—L. Ubels, Ripon.
 Contract for blackboards awarded at \$136.

Preparing Plans.
SCHOOL Cost, \$20,000
ALPINE, San Joaquin Co., Cal.
 One-story and basement school (four rooms; brick construction; steam heat; tile roof).
 Owner—Alpine School District.
 Architect—Davis-Pearce Co., 47 North Grant St., Stockton.

Contract Awarded.
LIBRARY Cost, \$—
WESTWOOD, Los Angeles Co., Cal. Four-story and basement steel frame and brick library (175x248-ft.)
 Owner—University of California.
 Architect—Cram & Ferguson, 400 Rowland Bldg., Los Angeles.
 Contractor—P. J. Walker Co., W. M. Garland Bldg., Los Angeles.

Architect's Name Omitted.
 Plans Being Prepared.
SCHOOL Cost, \$35,000
BERKELEY, Alameda Co., Cal. Milvia St., bet. Berryman and Eunice Streets.
 One-story and basement (4-classrooms) grammar school for St. Mary Magdalene Parish.
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
 Architect—Arnold Constable, 550 Market St., San Francisco.
 Exact to be ready for bids about June 30.

SANTA CRUZ, Santa Cruz Co., Cal.—Until June 23, 8 P. M., bids will be received by C. R. Holbrook, secretary, Board of Education, to furnish various or sundry supplies and equipment. Specifications on file in office of secretary.

Plans Being Figured—Bids Close June 17th, 7:30 P. M.
SCHOOL Cost, \$60,000
STOCKTON, San Joaquin Co., Calif. Channel and Pilgrim Sts.
 Rough finish only for two-story brick vocational school (10 class-rooms; 60x144-ft.)
 Owner—Stockton City School District.
 Architect—J. U. Clowdsley, Exchange Bldg., Stockton and Jos. Losekann, 1218 W. Harding St., Stockton, associated.

Steel floor joists, wood stud partition steam heating system, built-up roof. Finish plans are now being completed and will be ready for bids in about two weeks.

Plans Being Figured—Bids Close June 17, 8 P. M.
ADDITION Cost, \$—
DURHAM, Butte Co., Cal. Auditorium addition for high school.
 Owner—Durham Union High School District, Beecher H. Harris, clerk, Durham.
 Architect—Chester Cole, 303 First National Bank Bldg., Chico.

Certified check of bidder's bond of 10% required with bid. Plans on file in the high school at Durham and obtainable from the architect.

Completing Working Drawings.
GYMNASIUM Cost, \$1,000,000
BERKELEY, Alameda County, Calif. Campus of University of California.
 Class A steel frame and concrete gymnasium.
 Owner—University of California, Berkeley.
 Architect—George Kelham, 315 Montgomery St., San Francisco.

General Contract Bids Wanted—Bids To Be Opened June 17, 2:30 P. M.
ADDITION Cost, \$—
SAN FRANCISCO. Scott and O'Farrell Streets.
 Two-story and basement brick and steel frame Girls' High School Addition (terra cotta front).

Owner—City and County of San Francisco, S. J. Hester, Secretary, Board of Public Works.

Architect—F. H. Meyer, 525 Market St. Bids are being received by Board of Public Works for the general contract only. Bids received June 3 were rejected due to error claimed by Mahony Bros. in compiling bid. The bid was \$191,600, which Mahony Bros. claim failed to include the terra cotta work estimated at \$19,055. The next low bidder was Mission Concrete Co. at \$74. Bids for the electric work, mechanical equipment, plumbing and gas fitting have been taken under further advisement.

Certified check 10% payable to Clerk of the Board of Supervisors required with bid. Plans obtainable from the Bureau of Architecture, 2nd floor, City Hall. Complete list of bids received on this project was published in issue of June 4.

BERKELEY, Alameda Co., Calif.—Until June 15, 8 P. M., bids will be received by Clara F. Andrews, secretary, Board of Education, 2325 Milvia St., to furnish and deliver lumber for the Vocational Departments during the school year 1931-32. Specifications obtainable from secretary.

Preparing Working Drawings.
SCHOOL Cost, \$85,000
REDWOOD CITY, San Mateo Co., Cal. One-story reinforced concrete school (6 classrooms) and one-story frame and stucco school (3 classrooms).
 Owner—Redwood City School District.
 Architect—Coffey & Rist, Phelan Bldg., San Francisco.
 Plans will be ready for bids in about three weeks.

Plans Being Figured—Bids Close June 18, 8 P. M.
PLASTERING Cost, \$—
SAN MATEO, San Mateo Co., Cal. Complete plastering in high school gymnasium.
 Owner—San Mateo Union High School District, John D. Bromfield, clerk of district.
 Architect—E. L. Norberg, 407 Occidental Ave., Burlingame, and 650 Market St., San Francisco.

Certified check 10% payable to clerk required with bid. Specifications obtainable from architect on deposit of \$5, returnable.

Preparing Working Drawings.
ALTERATIONS Cost, \$11,000
MODESTO, Stanislaus Co., Cal.

Alterations and additions to one-story and basement brick school (Washington School) add two classrooms
 Owner—Modesto Grammar School District.
 Architect—Davis-Pearce Co., 47 North Grant St., Stockton.

BANKS, STORES & OFFICES

Contract Awarded.
STORE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal. 130-134 S. Fifth St.
 Alteration to store building.
 Owner—Zukors, Inc., 923 Market St., San Francisco.
 Plans by Victor Jones, St. Claire Hotel, San Jose.
 Contractor—H. A. Bridges, 1396 Lincoln, San Jose.

Contract Awarded.
BANK FIXTURES Cost, \$5000
OAKLAND, Alameda Co., Cal. Broadway.
 Bank fixtures for building.
 Owner—Morris Plan.
 Architect—Willis Lowe, 354 Hobart St., Oakland.
 Contractor—Braas & Kuhn, 1917 Bryant St., San Francisco.

Taking Bids.
ALTERATIONS Cost, \$100,000
HOLLYWOOD, Los Angeles Co., Cal. Alterations to two-story reinforced concrete store.
 Owner—Bank of America, Lessee—Wilcox Stores.
 Architect—H. A. Minton, B a n k of America Bldg., San Francisco.

Contract Awarded.
FILM BLDG. Cost, \$12,000
SAN FRANCISCO. SE Hyde and Eddy Streets.
 Two-story Class B film exchange building (sprinkler system; offices finished in hardwood); fireproof construction.
 Owner—Bell Bros., 740 Mills Bldg., San Francisco.
 Architect—W. D. Peugh, 333 Montgomery St., San Francisco.
 Contractor—Cahill Bros., 206 Sansome St., San Francisco.

Sub-Contract Awarded.
REMODELING STORE Cost, \$4000
SAN FRANCISCO. 871 Market St. New fixtures, painting, etc., for remodeling store.
 Owner—Chas. Brown & Sons, 871 Market St., San Francisco.
 Architect—Not Given.
Fixtures—San Francisco Showcase Co., 652 McAllister St., S. F.
 Other contracts will be awarded for painting, plumbing and electrical work.

Plans To Be Prepared.
BUSINESS BLDG. Cost, \$—
SAN FRANCISCO. No 342 Montgomery Street.
 Modern business structure.
 Owner—Louis R. Lurie, 315 Montgomery St., San Francisco.
 Architect—O'Brien Bros. & W. D. Peugh, 315 Montgomery St., S. F.
 Mr. Lurie recently purchased the property which is improved with a five-story structure, having a frontage of 45 ft. on Montgomery St. and a uniform depth of 67 ft. 6 in. back to Laura Place. The present structure will be razed and a new building erected upon expiration of the present leases.

Sub-Contracts Awarded.
STORES Cost, \$—
BURLINGAME, San Mateo Co., Cal. Broadway.
 One and two-story reinforced concrete store building (2 stores and 1 apartment).

Owner — Martin Stelling and E. L. Gould, 155 Montgomery St., San Francisco.
 Architect — Hertz, Winter & Maury, 210 Post St., San Francisco.
 Contractor — G. P. W. Jensen, 320 Market St., San Francisco.
Plumbing — F. J. Regan, 245 California Drive, Burlingame.
Milkwork — Pacific Manufacturing Co., 303 University Ave., Palo Alto.
 As previously reported, grading and concrete awarded to Louie Sartorio, 1817 Filbert St., San Francisco.

Sub-Bids Being Taken
STORE Cost, \$—
 OAKLAND, Alameda Co., Cal. Ocean View Drive and College Ave.
 One-story reinforced concrete store (3 stores; 50x57 feet).
 Owner — Bank of America.
 Architect — H. A. Minton, Bank of America Bldg., Eddy and Powell Sts., San Francisco.
 Contractor — Sullivan & Sullivan, 3927 39th Ave., Oakland.

Additional Sub-Contracts Awarded.
ALTERATIONS Cost, \$35,000
 SAN FRANCISCO. Stockton and O'Farrell Streets.
 Alterations to two-story and mezzanine floor store (class C construction; to be re-used).
 Owner — Imperial Realty Corp.
 Architect — G. Albert Lansburgh, 140 Montgomery Street.
 Contractor — Barrett & Hilp, 918 Harrison Street.
Plumbing & Heating — Frank J. Kilmm 456 Ellis St.
Brick Work — Wm. A. Rainey & Son, 323 Clementina St.
Toilet Partitions — Dwan & Co., 534 6th Street.
 As previously reported, structural steel awarded to Western Iron Works, 141 Canal St.; glass to Harbenicht & Howlett, 529 Clay St.; elevators to Spencer Elevator Co., 166 7th St.; electric work to Victor Lemoge, 281 N. roading and mill work.

Sub-bids are wanted on sheet metal,
 Sub-Contracts Awarded.
MARKET Cost, \$20,000
 NORTH BERKELEY, Alameda County Co., Cal. Solano Avenue.
 One-story brick drive-in market with tile roof.
 Owner — R. O. Long, 2122 Shattuck Ave., Berkeley.
 Architect — Paul Dragon, Mercantile Bank Bldg., Berkeley.
 Contractor — W. E. Lyons, 354 Hobart St., Oakland.
 Plate glass show windows, etc.
 Lumber — Tilden Lumber Company.
Reinforcing Steel — W. S. Wetenhall, 17th and Wisconsin Streets, San Francisco.
Milkwork — Sheehan - Ballard Planning Mill, 9th and Parker Sts., Berkeley.
Concrete — N. Lean, 2307 Encinal Ave., Alameda.
Steel Sash — H. C. Haglund, 354 Hobart St., Berkeley.

Preparing Working Drawings.
STORE Cost, \$15,000
 PENINSULAR DISTRICT. (Exact location withheld).
 One-story reinf. concrete store (two stores).
 Owner — Withheld.
 Architect — W. C. F. Gilliam, 1404 Broadway, Burlingame.
 Const. Supt. — Russel B. Coleman, 1404 Broadway, Burlingame.
 Plans will be ready for bids in about ten days.
 Sub-Contracts Awarded.
STORE Cost, \$10,000
 MELROSE, Alameda Co., Cal.
 Remodel bank for store.

Owner — Bank of America.
 Architect — H. A. Minton, Bank of America Bldg., San Francisco.
 Contractor — David Nordstrom, 15 Nace St., Oakland.
Lumber — Sunset Lumber Co., 400 High St., Oakland.
Plumbing — J. A. Fazio, 402 Castro St., St., Oakland.

Taking Segregated Figures.
STORE Bldg. Cost, \$50,000
 OAKLAND, Alameda Co., Cal. San Pablo Avenue.
 Three-story and basement steel and brick store building (stores and lofts).
 Architect — W. J. Wilkinson, 4265 Piedmont Ave., Oakland.
 Owner — Withheld.

THEATRES

Will Ask Bids This Week.
ALTERATIONS Cost approx. \$60,000
 SAN FRANCISCO. 4631 Mission Street (Excelsior Theatre).
 Alterations to present theatre (heating and ventilating, painting, plumbing, electrical work).
 Owner — Golden State Theatre & Realty Co., 25 Taylor St.
 Architect — F. H. Meyer, 525 Market St.

Sub-Bids Wanted.
ALTERATIONS Cost, \$20,000
 BERKELEY, Alameda Co., Cal. 3332 Adelene Street.
 Remodeling reinforced concrete theatre.
 Owner — Kalkisi-Harband Theatre Co., 3332 Adelene St., Berkeley.
 Architect — A. A. Cantin, 544 Market St., San Francisco.

Work involves new concrete stairway, pine flooring, re-arranging stage, ornamental plaster, revising electrical work, revising heating plant, general interior decoration.
 Young and Horstmeyer, 461 Market St., San Francisco, general contractors, desire sub-bids on all portions of the above work. Bids close June 18.

Sub-Bids Wanted.
THEATRE Cost, \$65,000
 PALO ALTO, Santa Clara Co., Cal. University Ave. near Cowper St. (62'x150 feet).
 Two-story concrete theatre and store (to seat 1000; Gothic type).
 Owner — United Artists Theatres of Calif., Jos. M. Schenck, vice-president, 1966 S-Vermont St., Los Angeles.
 Architect — Walker & Eisen and C. A. Balch, Western Pacific Bldg., Los Angeles.
 Contractor — Henry I. Beller Constr. Co., 6513 Hollywood Blvd., L. A.

Monolithic concrete exterior finish; hot air heating system, gas furnace, composition roof.
 Quotations on materials also desired
 Plans available at Room 402, 580 Market St., San Francisco.

Sub-Bids Wanted.
THEATRE Cost, \$150,000
 RICHMOND, Contra Costa Co., Cal. S. Macdonald Avenue, bet. Seventh and Eighth Streets.
 Class A reinforced concrete theatre (to seat 1200).
 Owner — United Artists of California, 1966 S-Vermont St., Los Angeles, (Lewis Anger in charge).
 Architect — Walker & Eisen and C. A. Balch, Western Pacific Bldg., Los Angeles.
 Contractor — Henry I. Beller Constr. Co., 6513 Hollywood Blvd., Los Angeles.
 Quotations on materials also desired
 Plans available at Room 402, 580 Market St., San Francisco.

Prospective Bidders.
THEATRE Cost, \$125,000
 SAN JOSE, Santa Clara Co., Cal. NE First and San Salvador Sts.
 Two-story class A reinforced concrete theatre and store building.
 Owner — Mrs. Norman M. Parrott and Morey B. Fleming.
 Lessee — United Artists Corp., 1966 S Vermont St., Los Angeles.
 Architect — Walker & Eisen and C. A. Balch, 1031 S Broadway, Los Angeles.

Following is a partial list of the contractors who will submit bids:
 Barrett & Hilp, 918 Harrison St., San Francisco.
 Lindgren & Swinerton Inc., 225 Bush St., San Francisco.
 Cahill Bros., 206 Sansome St., San Francisco.

The Minton Co., Mt. View and Palo Alto.
 H. O. Summers, 17 N 1st St., San Jose.
 W. J. Ochs, American Trust Co. Bldg., San Jose.
 E. Nommensen, 28 N 1st St., San Jose.

H. I. Beller Constr. Co., 6513 Hollywood Blvd., Hollywood.
 Monolithic concrete exterior finish, steel studs, metal lath and plaster interior partitions, concrete and composition roofing, concrete floors, hot air heating system, gas furnace. Bids are being received by the architects who have opened new offices in San Francisco in the Finance Building, 530 Market Street.

To Ask Bids About June 15
THEATRE Cost, \$400,000
 STOCKTON, San Joaquin Co., Cal. Main St., bet. Market and Stanislaus Streets.
 Two-story Class A theatre.
 Owner — National Theatres Syndicate, 25 Taylor St., San Francisco.
 Architect — E. B. Fairweather, Balboa Bldg., San Francisco.

Taking Bids.
ALTERATIONS Cost, \$20,000
 BERKELEY, Alameda Co., Cal. 3332 Adelene Street.
 Remodeling reinforced concrete theatre.
 Owner — Kalkisi-Harband Theatre Co., 3332 Adelene St., Berkeley.
 Architect — A. A. Cantin, 544 Market St., San Francisco.
 Work involves new concrete stairway, pine flooring, re-arranging stage, ornamental plaster, revising electrical work, revising heating plant, general interior decoration.

MISCELLANEOUS SUPPLIES AND MATERIALS

SACRAMENTO, Cal. — Until June 18, 8:15 P. M., bids will be received by H. G. Denton, city clerk, for clearing and grading site for the new pre-treatment works at the municipal filtration plant. Certified check 10% payable to City Controller required with bid. Plans on file in office of city clerk. Fred J. Klaus, city engineer.

Plans Being Completed.
MORTUARY Cost, \$25,000
 OAKLAND, Alameda Co., Cal. Telegraph and 30th Avenues.
 Two-story mortuary building.
 Owner — Oakland Undertaking Co., 3007 Telegraph Ave., Oakland.
 Architect — Raymond De Sanno, 2534 Milvia St., Berkeley.
 Bids will be taken about June 15.

EL NIDO, Merced Co., Calif. — See separate bid listing on page five of this issue. Bids opened by directors of the El Nido Irrigation District to furnish and deliver lumber.

Plans Being Figured—Bids Close July 13, 10 A. M.
PASSENGER TERMINAL \$175,000
 SAN DIEGO, San Diego Co., Cal.
 Municipal Pier.
 Steel frame passenger terminal (observation rooms, facilities for passengers; custom offices, etc.)
 Owner—City of San Diego.
 Architect—Not Given.

Preparing Working Drawings
CAMP & DOG HOSPITAL Cost, 23,000
 SAN MATEO, San Mateo Co., Cal.
 Two-story frame and stucco cat and dog hospital, double garage separate (concrete floors, iron work, composition roof, steel sash, hot water heating).
 Owner—Dr. Herold H. Groth, 2600 S. ElCamino Real, San Mateo.
 Architect—Treichel & Goodpaster, 1540 San Pablo Ave., Oakland.

POMONA, Los Angeles Co., Cal.—L. E. Dixon Co., 609 S Grand Ave., Los Angeles, submitted the lowest bid to the Los Angeles Supervisors June 8, at \$299,500, for all work embraced in the general, structural steel, plumbing work, ventilating work, and electric wiring and fixtures for constructing a steel and concrete grandstand at the Los Angeles County Fair Grounds, Pomona.

SACRAMENTO, Calif.—Sacramento Golf Commission, formed for the purpose of constructing an 18-hole golf course at the lower end of Del Paso Park, has been completed with the selection of L. S. Unson as president. Jack Oakley has been named secretary. The commission is prepared to advance one-half the total cost and plans to secure the remaining half in a loan. City Manager Jas. Dean announces that for certain legal reasons the city is unable to finance the undertaking directly. Because of this, the commission was asked to form itself into a corporation to take over the construction and management of the course on a five-year lease from pending on the project.

Preparing Working Drawings.
ARMORY Cost, \$60,000
 SALINAS, Monterey Co. Howard and Salinas Sts. and Lincoln Ave.
 One-story reinforced concrete armory (seating capacity 1,400 to 1,500).
 Owner—State of California.
 Architect—Koepf & Campbell, Carmel.

Preparing Working Drawings.
MAUSOLEUM Cost, \$80,000
 SAN MATEO COUNTY (Location withheld).
 First unit of mausoleum (reinforced concrete construction; marble and bronze interior).
 Owner—Withheld.
 Architect—Crim, Resing & McGuinness, 488 Pine St., San Francisco.
 Segregated bids will be taken in about two weeks. Excavation work is now under way by day's labor.

SAN FRANCISCO—Until June 17, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to construct concrete bents under existing 44-inch pipe line across Islais Creek, replacing present short bents. Estimated cost, \$3,000. Project involves:
 (a) 150 cu. yds. class B concrete;
 (b) 2,740 lbs. $\frac{3}{4}$ -in. square deformed reinforcing steel;
 230 lbs. $\frac{1}{2}$ -in. do.
 Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from San Francisco Water Department, 423 Mason St., Room 701, on deposit of \$10, returnable.

Plans Being Figured—Bids Close June 23, 10 A. M.
RECREATION BLDG. Cost, \$14,000
 BERKELEY, Alameda Co., Cal. James Kenney Park, bounded by 7th, 8th, Delaware and Virginia Sts.
 One-story frame and stucco recreation building (tile roof).
 Owner—City of Berkeley, Florence E. Turner, city clerk.
 Architect—Jas. W. Placheck, Mercantile Bank Bldg., Berkeley.

Certified check 10% payable to city required with bid. Plans obtainable from the Building Department, City Hall, on deposit of \$10, returnable.

SACRAMENTO, Cal.—Diamond Match Co., Chico, at \$609.75 awarded contract by city council to furnish lumber for store stock at the Municipal Corporation Yard. Four other bids submitted.

SACRAMENTO, Cal.—Until June 18, bids will be received by H. G. Denton, city clerk, for grading site of new sedimentation basin in connection with municipal water filtration plant. Plans on file in office of clerk. Fred J. Klaus, city engineer.

Specifications Completed.
TRACK Cost, \$200,000
 BERKELEY, Alameda Co., Cal. University Campus, Fulton and Bancroft Sts.

Reinforced concrete track Stadium Bowl (list 20,000 Turner).
 Owner—University of California.
 Architect—Warren C. Perry, 260 California St., San Francisco.
 Work involves two bleacher structures of reinforced concrete, team quarters, lockers and showers, toilet rooms, telephone and radio accommodations. A deposit of \$200 will be required for the plans, which will probably be available at the Controller's Office, California Hall, Berkeley, about June 16, and be opened about June 25. A certified check of 10% will be required with bids.

SAN FRANCISCO—Three identical bids were received by the Playground Commission, 376 City Hall, for fencing and backstops at Aptos Playground at \$874.74.

The three identical bids were submitted by Standard Fencing Co. 432 Bryant St.; Anchor Post Fence Co., 460 5th St.; and Kamlan Fence Co., 350 Bryant St. The other bids were: Hercules Fence Co. \$8654.81
 West Coast Wire & Fence Co. \$590.00

MISCELLANEOUS CONSTRUCTION

BERKELEY, Alameda Co., Calif.—Until June 16, 10 A. M., bids will be received by Florence E. Turner, city clerk, to furnish No. 10 solid single conductor, double-braid weatherproof medium hard drawn copper wire; delivery f.o.b. Berkeley. Certified check \$100 required with bid. Specifications on file in office of clerk.

SAN JOSE, Santa Clara Co., Cal.—Until June 22, 8 P. M., bids will be received by C. E. Goodwin, city manager, to furnish radio equipment, as follows:

(a) One 100-watt police alarm broadcast transmitter (RCA - ET - 3670 or equal).

(b) Ten (more or less) police communication receivers.
 Certified check 10% required with bid. Specifications obtainable from city clerk.

BERKELEY, Alameda Co., Calif.—Until June 15, 8 P. M., bids will be received by Clara P. Andrews, secretary, Board of Education, 2325 Milvia

St., to furnish stock ledger posting machine for school department. Specifications obtainable from secretary.

FRESNO, Fresno Co., Cal.—Until June 19, 11 A. M., bids will be received by H. A. Foster, city clerk, to furnish Mazda Incandescent Lamps for the term commencing July 1, 1931, and ending June 30, 1932. Certified check \$500 payable to city required with bid. Further information obtainable from city clerk.

BUSINESS OPPORTUNITIES

Names and addresses of persons or firms concerned in the following opportunities will be furnished on request to Business Opportunity Department, Daily Pacific Bullder, 547 Mission St., San Francisco or Phone Garfield 5744:

21108—Marble, San Francisco. Firm in Prata, Toscana, Italy, desires to establish contact with reliable commission agents interested in handling marble, alabaster, artistic wood work and other Italian products.

21112—Manufacturing Rights, New York City. Firm in Germany which has been manufacturing fire-alarm equip. and is internationally known, desires to make arrangements for the manufacture of its equipment here in the United States.

21113—Canvas, San Francisco. Firm in Czechoslovakia is inquiring for list of importers of horse-hair canvas and camel-hair canvas.

21117—Cattle Hair, Osaka, Japan. Exporters of cattle hair suitable for making felt are anxious to contact felt manufacturers.

21118—Sewing Machines,—Osaka, Japan. Firm is desirous of importing second-hand Singer sewing machines Nos. 12-12, 15, 24-26, 30, 44-13, 46, 60-25, 60-28, 60-38, 69-6, 71-1, 71-3, 81-6, 91-20, 81-22, 82-3, 82-20, 95-10 and Union Special No. 6.

The King Co. (Attention Frederick Callher), Owatonna, Minn., manufacturers of ventilating, heating, drying and cooling systems and equipment, wish to secure a representative in this district.

Walter J. Thomson, 1514 South Wilton Place, Los Angeles, with importing and exporting experience, wishes to contact San Francisco or Eastern concern with view to representing them in Southern California.

S. B. Williams (Electrical Contracting), 520 North Michigan Ave., Chicago, Ill., publishing magazine to be distributed among electrical contractors wishes to secure agent for distribution in this territory.

Wm. H. Hutchins, Gauthier & Hutchins, Inc., 251 So. Canon Drive, Beverly Hills, Calif., has facilities for representing local or Eastern manufacturers having suitable products to carry to the architects, lumber dealers, building material dealers, department stores and industrial consumers, for California, Oregon and Washington.

W. A. Underwood, Loring Coes Co., Worcester, Mass., manufacturers of all types of machine knives are looking for concern in San Francisco to act as distributing agent for their products.

J. W. Madden, 908 Westheimer St., Houston, Texas, has facilities for manufacturers or firms in San Francisco who wish to increase their business by forming new sales connections in Texas.

Langlotz & Co., 1 Hanson Place, Brooklyn, N. Y., can supply attractive line of porcelain enamel ash trays to party wishing to represent them.

R. Gillespie Co., Ware, Mass., manufacturers of telescoping and flat form hoists wish to secure agent for this territory.

Engineering News Section

BRIDGES

SACRAMENTO, Cal.—Until June 15, 10 A. M., bids will be received by Harry W. Hall, county clerk, to construct reinforced concrete culverts in Madison Ave. Estimated cost, \$880.

Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from County Engineer Chas. Detarding, Jr., at Sacramento.

SAN FRANCISCO—Board of Public Works has officially rescinded the contract awarded to Barrett & Hilp to construct the Third Street bridge, and has commissioned Jos. B. Strauss, Russ Bldg., to act as consulting engineer on the project furnishing general bidding plans for substructures and super-structure. The Strauss bridge will be erected without any royalty charges, Engineer Strauss to receive a total fee of five per cent of the entire cost of the substructure and super-structure in place. New bids will be asked upon completion of plans.

VENTURA COUNTY, Calif.—Mitty Bros. Const. Co., Detwiler Bldg., Los Angeles, at \$282,303 awarded contract by State Highway Commission to construct deck plate girder bridge across Santa Clara river about 1 mile south of Montalvo, consisting of 21 86-ft. spans on concrete piers and abutments. Complete list of unit and total bids received on this project published in issue of May 4.

SANTA CLARA COUNTY, Calif.—Until July 1, 2 P. M., bids will be received by State Highway Commission to construct reinforced concrete girder bridge over Coyote Creek at San Jose, consisting of six 34-ft. spans on concrete pile bents and concrete abutments and wing walls on pile foundations.

SAN LEANDRO, Alameda Co., Cal.—City Manager W. A. Richmond contemplates plans for bridge over San Leandro Creek in Park Street, a unit in the extension of Park St. to the north city limits, where it will join an extension of Russett St. The cost is estimated at \$35,000.

NAPA, Napa Co., Cal.—City votes bonds to finance construction of a new bridge in Third Street over the Napa river and another over the Brown St. crossing. For the Third St. bridge, bonds of \$35,000 were voted and for the Brown St. bridge, \$5000. The Third St. issue will finance one-half the cost, the remaining half to be contributed by the county and state.

VISALIA, Tulare Co., Calif.—Until July 6, 2 P. M., bids will be received by Gladys Stewart, county clerk, to construct reinforced concrete bridge No. 92 over White River on county highway between Ducor and Richgrove, involving:

- (1) 174.63 cu. yds. class A concrete in the bridge structure;
- (2) 9.02 cu. yds. class F concrete in the bridge structure;
- (3) 31.29 cu. yds. of class A concrete in the pavement;
- (4) 400.00 cu. yds. of earth fill on approaches;
- (5) detour (lump sum bid).

All the material to be used in the

construction of the bridge will be furnished by the County of Tulare, f.o.b. Ducor, Calif., on the Southern Pacific Railroad Co.'s siding, excepting as otherwise stated in the specifications.

Certified check 5% payable to the Chairman of the Board of Supervisors required with bid. Plans obtainable from County Surveyor T. W. Switzer on deposit of \$10, returnable.

SACRAMENTO, Cal.—E. R. Jamieson, Box 853, Sacramento, at \$2,484.35 awarded contract by county supervisors to construct the Stoll Bridge, northeast of Rio Linda.

SAN MATEO COUNTY, Cal.—Barrett & Hilp, 918 Harrison St., San Francisco, at \$95,188 awarded contract by State Highway Commission to construct an undergrade crossing under tracks of the Southern Pacific Railroad near Henderson Station, consisting of two concrete abutments with wing walls, installing drainage system, and pumping equipment, and grading and paving approximately 4 miles of roadway with Portland cement concrete. Complete list of unit and total bids on this project published in issue of June 2.

SACRAMENTO, Cal.—Geo. D. Hudson, 1915 S Street, Sacramento, at \$5,643.98 submitted lowest bid to the county supervisors to construct a reinforced concrete bridge over Linda Creek, southeast of Rio Linda on the Dry Creek road.

Following is a complete list of bids:

Geo. D. Hudson, Sacramento.....	\$5,643
P. F. Bender, Sacramento.....	5,650
R. J. Bean, Croville.....	5,671
Holden Const. Co., Sacto.....	6,432
J. Downar, Sacramento.....	6,523
Yoho & Dauger, Sacramento.....	6,754
McGilvray Const. Co., Sacto.....	7,235
Pacific Properties & Const. Co., Oakland.....	7,590

Bids held under advisement.

CLE ELUM, Wash.—Until 10 A. M., July 10, bids will be received by the bureau of reclamation at Yakima, Wash., for furnishing labor and materials and performing all work for construction of the Cle Elum Dam and clearing the reservoir site, Yakima Project, Wash. The work is located about 8 miles northwest of Cle Elum, Wash., on the Northern Pacific and Chicago, Milwaukee and St. Paul railways.

The principal items and estimated quantities involved are as follows:

- (1) 134,000 cu. yds. of stripping;
- (2) 25,500 cu. yds. of tunnel and shaft excavation;
- (3) 1,552,000 cu. yds. of excavation in open cut;
- (4) 35,000 cu. yds. of backfill;
- (5) 1,220,000 cu. yds. of earth and gravel embankment;
- (6) 44,000 cu. yds. of riprap and paving;
- (7) 11,200 cu. yds. of concrete in tunnel and shaft lining;
- (8) 20,900 cu. yds. of concrete other than tunnel and shaft lining;
- (9) 20,000 cu. ft. of pressure grouting;
- (10) placing 3,300,000 lbs. of reinf. bars (11) placing 3800 lin. ft. 6-in. to 30-in. drainage;
- (12) driving 12,860 lin. ft. sheet piling;
- (13) installing 575,000 lbs. of metal work;
- (14) 2700 acres of clearing.

Proposal guarantee, 10%.

SANTA CLARA COUNTY, Cal.—As previously reported, bids will be received July 1 by State Highway Commission to construct a reinforced concrete girder bridge across Coyote Creek at San Jose, consisting of six spans 34-ft. long on concrete pile bents and concrete abutments and wing walls on pile foundations. Project involves:

- (1) 1200 cu. yds. struc. excavation;
- (2) 4000 lin. ft. furnishing Douglas fir piles, including test piles;
- (3) 158 each, drive Douglas fir piles, including test piles;
- (4) 1600 lin. ft. reinf. conc. piles, including test piles;
- (5) 1100 cu. yds. class A Portland cement concrete;
- (6) 16 cu. yds. class E do;
- (7) 135,000 lbs. reinf. steel;
- (8) 178 lbs. bronze expansion plates;
- (9) 1 lot miscellaneous items of work.

SAN JOSE, Santa Clara Co., Cal.—Thermotite Constr. Co., 580 Stockton Ave., San Jose, at \$13,978 awarded contract by city council to construct reinforced concrete bridge over Guadalupe river at Home and West Virginia Sts. Project involves in the main: 425 cu. yds. concrete.

Complete list of bids on this project published in issue of May 27.

REDWOOD CITY, San Mateo Co., Calif.—See "Streets and Highways," this issue. County Surveyor Jas. S. James estimates cost of highway routes, including bridge construction.

SAN JOAQUIN COUNTY, Calif.—Thermotite Const. Co., 580 Stockton Ave., San Jose, at \$57,537 submitted low bid June 10 to State Highway Commission to construct nine timber bridges and widen two bridges between Stockton and Turner Station. Complete list of bids follows:

Thermotite Const. Co., San Jose.....	\$57,537
J. F. Metzger & Son, L. A.....	67,615
Geo. J. Ulrich Const. Co., Modesto.....	60,555
Lord & Bishop, Sacramento.....	63,870
R. B. McKenzie, Red Bluff.....	64,082
Force Const. Co., Piedmont.....	65,270
Frederickson and Watson, Oakland.....	65,845
M. B. McGowan, San Francisco.....	71,098
Bodenhamer Const. Co., Oakland.....	72,662
Oberg Bros., Los Angeles.....	73,417
W. J. O'Neil, San Francisco.....	75,925

DREDGING, HARBOR WORKS & EXCAVATIONS

STOCKTON, San Joaquin Co., Cal.—Bids will be asked shortly by U. S. Engineer Office, California Fruit Bldg., Sacramento, for dredging in Stockton Channel, involving 1,435,000 cu. yds. of material. Further mention will be made of this work when bid opening date is set.

SAN FRANCISCO—Until June 29, 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason, for dredging at S. Army Transport Docks at Fort Mason.

RICHMOND, Contra Costa Co., Cal.—Franks Contracting Co., 260 California St., San Francisco, at \$32,615 awarded contract by city council for dredging the Ford Channel in the

Richmond Harbor for a width of 200 feet and a minimum depth of 30-feet. City has \$20,000 available for this work. Bids will be taken on two propositions, (a) to dredge for a distance of 1,100 ft. and the other (b) for a distance of 1,700 ft. Certified check 10%.

Complete list of bids follows:

Franks Contracting Co., Area (a) 19.8c yd., total \$26,845.50; Area (b) 16.7c, total \$32,515.10.

American Drilling Co., (a) 19.55c, total \$27,053.50; (b) 16.9c, total \$23,065.70.

San Francisco Bridge Co., (a) 23½c, total \$30,510; (b) 21½c, total \$41,989.50.

LONG BEACH, Calif.—San Francisco Bridge Co., 14 Montgomery Street, San Francisco, at \$124,608.50 awarded contract by city council for dredging and filling in Outer Harbor, involving 415,000 cu. yds. dredging; 150 lin. ft. creosoted bulkhead or curtain wall; 1,750 tons thinking and sealing rock.

IRRIGATION PROJECTS

EL NIDO, Merced Co., Calif.—See separate bid listing on page five of this issue. Bids opened by directors of the El Nido Irrigation District to furnish and deliver lumber.

STREET LIGHTING SYSTEMS

WALNUT CREEK, Contra Costa Co., Calif.—Lighting concerns are conferring with the Greater San Ramon Chamber of Commerce regarding the installation of a modern street lighting system in Walnut Creek. Standards contemplated are 18 ft. 2-light type as installed in University Ave. in Berkeley.

SAN JOSE, Santa Clara Co., Calif.—City council declares intention (5371) to install 20 San Jose Design Duplex Electrolier posts in Fourth St. bet. San Fernando St. and San Carlos St., together with underground system 1911 Act. John J. Lynch, city clerk. Wm. Popp, city engineer.

SOUTH SAN FRANCISCO, San Mateo Co., Calif.—Proceedings have been started by the city council to install ornamental street lighting system in Grand Avenue for its entire length. Double-light standards will be installed, together with underground system.

SAN JOSE, Santa Clara Co., Calif.—Proceedings have been started by the city council to install electrolier system in all blocks in South First street. Wm. Popp is city engineer.

MACHINERY AND EQUIPMENT

FULLERTON, Orange Co., Calif.—Until June 16, 7:30 P. M., bids will be received by E. C. Hazmahalch, city clerk, to furnish tractor of 30 to 50-hp. or equal. Certified check 10% required with bid.

PUGET SOUND, Wash.—Until June 17 (time extended from June 3), under Specification 8542, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish 250-ton stationary hammer-head crane electrically operated; 20-ton traveling tower crane having gasoline electric power; and 10-ton traveling gantry crane and traveling revolving jib having gasoline-electric power at the Navy Yard, Puget Sound, Wash. Plans obtainable from above office on deposit of \$10.

MADERA, Madera Co., Calif.—Until July 7, 11 A. M., bids will be received

by L. W. Cooper, county clerk, to furnish one new 12-ft. Austin road graded, f.o.b. Madera. Further information obtainable from clerk.

COURTLAND, Sacramento Co., Cal.—Until July 2, 7:30 P. M., bids will be received by L. C. Peck, clerk, Bates Joint Union School District, to furnish

(1) Chassis for one 40-passenger school bus;

(2) School Bus Body, 40-passenger capacity.

Separate bids are wanted on each unit. Further information obtainable from E. E. Hudson at Courtland.

PETALUMA, Sonoma Co., Cal.—Until June 22, 8 P. M., bids will be received by John A. Olmsted, secretary, Petaluma City School District, to furnish and deliver school bus, as follows:

Item 1. For furnishing two 1½-ton truck chassis for school transportation as per plans and specifications on file at the office of the City Superintendent of Schools.

Item 2. For the construction and furnishing two 42-passenger bus bodies to be built on truck chassis owned by the Board of Education as per plans and specifications on file at the office of the City Superintendent of Schools in the high school building.

Each item must be bid for separately.

Certified check 10% required with bid. Further information obtainable from secretary.

PEARL HARBOR, T. H. (By Special Wire)—E. W. Kaltenbach Corp., Bedford, Ohio, at \$28,329 submitted low bid June 10, under Specification No. 6458, to Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish a 30-ton revolving crane at the Naval Submarine Base, Pearl Harbor.

Industrial Brown Hoist Co., Cleveland, Ohio, second low bidder at \$30,700; American Hoist & Derrick Co., St. Paul, \$21,854, third low bidder.

SAN FRANCISCO—Until June 22, 3 P. M., under Proposal No. 730, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish sheet metal shop supplies for School Department. Specifications obtainable from above office.

RAILROADS

OAKLAND, Alameda Co., Cal.—Informal bids are being received by City of Oakland Port Commission for laying spur tracks on the east side of Warehouse A.A. Est. cost \$900. Port Commission will furnish trucks.

FIRE EQUIPMENT

MADERA, Madera Co., Calif.—Until July 7, 10 A. M., bids will be received by L. W. Cooper, county clerk, to furnish one 2-ton Moreland Fire Truck fully equipped, f.o.b. Raymond, Calif.

SAN JOSE, Santa Clara Co., Cal.—Mack Truck Co. at \$12,500 awarded contract by city council to furnish one 1000-g. p. m. combination pumper and hose car for fire department.

ISLETON, Sacramento Co., Calif.—City trustees will call an election shortly to vote bonds of \$6,000 to finance purchase of motor fire truck and \$2,000 for purchase of other fire fighting equipment.

RESERVOIRS AND DAMS

SANTA BARBARA, Cal.—City de-feats proposal to issue bonds of \$2,100,000 to finance enlargement of the

Gibraltar Dam and provide improvements to the water supply system.

NEWPORT BEACH, Orange Co., Cal.—C. R. Browning, engineer, for the Irvine Co. has announced that construction of a dam at Newport Bay to care for flood waters from El Toro, to El Toro, will start about July 1. The dam will be located at the old San Joaquin Gun Club, 0.75 mile east of the Irvine Co. The dam has been designed for a spillway capacity of 6,500 second feet. The elevation at the base will be six feet. It will be 3½ feet high. When the reservoir is full, it will stand 2½ feet. The reservoir capacity will be 12,500 acre feet. The dam will cost \$195,000. The engineer states that this will differ from most reservoirs in that there will be no outlet conduit from the dam but water will be pumped out of the reservoir and transported through pipe lines back into the valley. A 42-inch pipe will be used across the valley, and booster systems used.

PASADENA, Cal.—Bids for the construction of the Pine Canyon Dam will be called by the city directors within the next two months, according to an announcement by Samuel B. Morris, Pasadena city water superintendent and chief engineer. The state engineer's permit was received by the city June 8. Mr. Morris states that the proposed dam, which will be built in the San Gabriel Canyon about four miles above Azusa, will be a concrete gravity type structure, 300 feet in height above the foundations, involving approximately 450,000 cu. yds. of concrete. The reservoir will impound about 40,000 acre feet.

PIPE LINES, WELLS, ETC.

COALINGA, Fresno County, Cal.—Hickey Pipe & Supply Co., Coalinga, at \$720 awarded contract by city council to furnish 2,000 ft. 3-in. lap welded pipe. Complete list of bids follows:

*A. P. May, Inc., Coalinga.....	\$711.80
Hickey Pipe & Supply Co.....	720.00
Bunting Iron Works, Coalinga.....	740.00
J. A. Fazio, Oakland.....	756.47
Tay-Holbrook Co. San Francisco.....	807.80
Walworth Calif. Co., S. F.....	969.60

*Bidding butt-weld.

COALINGA, Fresno County, Calif.—Hickey Pipe & Supply Co., Coalinga, at \$200 awarded contract by the city council to furnish 2,000 ft. 1-in. galvanized pipe. Complete list of bids follows:

A. M. May, Inc., Coalinga.....	\$193.60
Bunting Iron Works, Coalinga.....	194.00
Walworth Calif. Co., S. F.....	199.80
Hickey Pipe & Supply Co.....	200.00
Tay-Holbrook Co., S. F.....	202.50
J. A. Fazio, Oakland.....	203.74

SOUTHERN CALIFORNIA—Welding Engineering Co., Bartlesville, Okla., awarded contract by Southern Fuel Co. at approximately \$125,000 for welding about 106 miles of 26-in. pipe line between Glendale and a point near valve No. 32 of the Southern California Gas Company's Taft-Los Angeles line. The contract provides the following prices: \$7.50 per generator hour, \$27 per unit per day when less than three generators are ordered on the line during any one day or fraction thereof.

SEWERS AND SEWAGE DISPOSAL PLANTS

BERKELEY, Alameda Co., Calif.—Martin Murphy, 1321 Milvia St., Berkeley, at \$4,012.35 awarded contract by city council to construct sewer in Arlington Avenue from Thousand Oaks Blvd. to San Antonio Ave. See com-

plete list of unit and total bids received in separate tabulation on page five of this issue.

BERKELEY, Alameda Co., Calif.—Until June 16, 10 A. M., bids will be received by Florence E. Turner, city clerk, to furnish sewer pipe, delivered in curbed lots, f. o. b. Corporation Yard Allston Way and West St., for fiscal year commencing July 1, 1931. Certified check \$100 required with bid. Specifications on file in office of city clerk.

ISLETON, Sacramento Co., Calif.—City trustees will call an election shortly to vote bonds of \$15,000 to finance construction of sewers.

SAN MATEO, San Mateo Co., Cal.—City council declares intention (31-6) to improve alleys in Block 8 of East San Mateo and in portions of the Bayshore Highway, involving construction of 6-in., 3-in., 10-in., 12-in., and 15-in. vitrified clay pipe sanitary sewers with wyes; brick manholes, 1911 Act. Bond Act 1915. Hearing June 22. E. W. Foster, city clerk.

SANTA MARIA, Santa Barbara Co., Cal.—Santa Maria Const. Co., Santa Maria, at approximately \$12,436.70 awarded contract by city council to construct sewers in N Curryer St., W Fessler St., and N Depot St., involving 341 ft. 6-in., 1,941 ft. 10-in., 1,549 ft. 12-in. vit. sewers; 3 manholes; 600 ft. 4-in. cast iron pipe and constructing pumphouse.

COALINGA, Fresno County, Calif.—Cross Lumber Co., Coalinga, awarded contract by city council to furnish (a) 1,600 ft. 8-in. sewer pipe at \$264 and (b) 30 6x4-in. wyes for same at \$27.30. Complete list of bids follows:

	(a)	(b)
San Joaquin Mat. Co.	\$308.00	\$23.00
H. C. Mudcox Co., Inc.	308.00	23.10
Gladding, McBean & Co.	330.00	25.20
J. A. Fazio, Oakland	336.00	25.20
Cross Lumber Co.	364.00	27.30
Hickey Pipe & Sup. Co.	364.00	27.30
N. Clark & Sons	560.00	42.00

LONG BEACH, Cal.—Plans have been completed and a resolution of intention will be passed at once by the city council for the North Long Beach Sewer System to be known as Pump Sewer District No. 11. Proceedings for this work are under the 1911 Act. The district embraces all of North Long Beach north of the Virginia Country Club. According to the engineer's estimate the system will involve about 314,746 lin. ft. of sewer with necessary structures and pumping stations. The items are:

- 247,012 ft. 8-in. vit. clay sewer;
- 17,590 ft. 12-in. vit. clay sewer;
- 2,615 ft. 15-in. vit. clay sewer;
- 1,515 ft. 18-in. vit. clay sewer;
- 2,745 ft. 24-in. vit. clay sewer;
- 4,484 ft. vit. clay sewer;
- 3,266 ft. 27-in. vit. clay sewer;
- 2,513 ft. 30-in. vit. clay sewer;
- 295 ft. 33-in. vit. clay sewer;
- 4,184 ft. 24-in. centrifugally spun R. C. P.;
- 2,557 cu. B concrete backfill for 8-in. pipe;
- 16 ft. type A concrete backfill for 8-in. pipe;
- 60 ft. type A concrete backfill for 10-in. pipe;
- 37 ft. type A concrete backfill for 12-in. pipe;
- 6,000 tons rock or gravel for sub-base;
- 1,088 type A std. manholes;
- 15 type C std. manholes;
- 39 type D std. manholes;
- 8 type E std. manholes;
- one spillway junction chamber;
- 82 std. lampholes;
- 95,585 ft. 6-in. vit. connecting sewer;
- one pumping station including two

6-in. and one 8-in. pump, the total requirements being 600 G. P. M.

LOS ANGELES, Cal.—City defeats proposal to issue and sell bonds of \$6,000,000 to finance construction of sewers in various sections of the city.

MISCELLANEOUS CONSTRUCTION

SACRAMENTO, Cal.—Luppen & Hawley, 3126 J St., Sacramento, awarded contract for electrical work in connection with the H Street Subway, the general contract for which was awarded by the City of Sacramento to Lindgren & Swinerton, Inc., California State Bldg., Sacramento, at \$59,000.

WATER WORKS

SAN LUIS OBISPO, Cal.—See "Government Work and Supplies," this issue. Bids wanted by U. S. Property and Disbursing Officer at Sacramento to construct 2,000,000-gallon reservoir at National Guard Training Camp at San Luis Obispo.

SANTA BARBARA, Cal.—City defeats proposal to issue bonds of \$2,100,000 to finance enlargement of the Gibraltar Dam and provide improvements to the water supply system.

OAKLAND, Cal.—Steel Pipe & Tank Co., 1160 4th St., Oakland, at \$770 (\$365 each) awarded contract by East Bay Municipal Utility District to furnish and erect two 222,000-gallon steel storage tanks. Complete list of bids published in issue of May 29.

FAIRFIELD, Solano Co., Cal.—Until June 18, 5 P. M., bids will be received by Lewis Morrill, city clerk, for improvements in connection with sewer and water system, involving:

- Item (1) Water distribution system, with two alternates:
- Alternate (A) Using centrifugal cast iron pipe.
- Alternate (B) Using McWane pipe.

- 1,600 lin. ft. 12-in. pipe;
- 2,700 lin. ft. 10-in. pipe;
- 3,945 lin. ft. 8-in. pipe;
- 1,385 lin. ft. 6-in. pipe;
- 380 lin. ft. 2-in. pipe.

- Fittings For Same,
- 1 12-in. gate valves;
- 6 10-in. gate valves;
- 8 8-in. gate valves;
- 22 6-in. gate valves;
- 2 4-in. gate valves;
- 4 3½-in. gate valves;
- 6 3-in. gate valves;
- 19 2-in. gate valves;
- 9 new fire hydrants;
- 10 existing fire hydrants to be removed;
- 62 ¼-in. service connections;
- 3 1-in. service connections.

Item (2) Elevated water tank and tower (dump sum); 100,000 gallon capacity; 100 ft. from top of foundation to bottom of tank.

Item (3) Foundation piers for elevated tank (dump sum); 40 cu. yds. concrete, approximately.

Item (4) Outfall sewer. 3,390 lin. ft. 15-in. vit. clay pipe sewer. 7 brick manholes.

Item (5) Completion of a deep well on the town property heretofore started by a test bore.

Plans and specifications are obtainable from Andrew M. Jensen, Engineer, Room 351, Riata Building, San Francisco.

ORANGE, Orange Co., Calif.—Until June 23, 1 P. M., bids will be received by Paul Clark, city clerk, to furnish 4,000 ft. 6-in. and 600 ft. 8-in. water pipe. Further information obtainable from above.

CORNING, Tehama Co., Cal.—Pomona Pump Co., Pomona, at \$2,819 submitted low bid to city council to furnish and install deep well turbine pump, motor, 8-in. standard pipe, with wiring, fittings and equipment in connection with municipal water system. Complete list of bids follows:

Pomona Pump Co.	\$2,819
Woodin & Little	2,825
Lyon-Garret Co., Red Bluff	2,879
Peerless Pump Co.	2,914
Byron-Jackson Pump Co.	2,962
Anchorage Farm, Orland	2,975
Layne & Bowler Pump Co.	3,015
Coring Electric Co., Corning	3,086

CORCORAN, Kings Co., Cal.—Until June 15, 8 P. M., bids will be received by Jas. C. Condon, city clerk, to construct one circular concrete water storage tank. Certified check 10% payable to city required with bid. Plans obtainable from city clerk, on deposit of \$5, returnable.

SAN DIEGO, Cal.—Until July 1, 11 A. M., under Specification No. 6483, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for 400,000-gallon steel tank for Naval Operating Base (Fuel Depot) at San Diego. Plans obtainable from Commandant, Eleventh Naval District, Foot of Broadway, San Diego, on deposit of \$10, checks for same to be made payable to Chief of the Bureau of Yards and Docks.

VALLEJO, Solano Co., Cal.—Alf E. Edgecombe, city clerk, will ask bids on to furnish city with a quantity of 16-in., 20-in. and 24-in. bell and spigot pipe with fittings for same. The bids will probably be opened June 20. T. D. Kilkenny, city engineer.

CHILKOOT BARRACKS, Alaska.—Following is a complete list of the bids received by Constructing Quartermaster, Fort Mason, San Francisco, for equipment for water supply system at Chilkoot Barracks, Alaska, consisting of pipe and fittings, insulation material, intake culson, materials for constructing trestle and crib and water filter.

Item A (Pipe and Fittings) (1) f. o. b. Alaska (2) f. o. b. Seattle (3) f. o. b. San Francisco.

C. G. Clausen & Co., Inc., 825 Folsom St., San Francisco, (1) \$3,175 (2) \$7,400 (3) \$7,380.

Valworth California Co., San Francisco (1) \$9,348 (2) \$8,591 (3) \$8,558.

Petroleum Equipment Co., (1) \$9,366 (2) \$8,558 (3) \$8,523.

Crane Co., San Francisco (1) \$9,521 (2) \$8,521 (3) \$...

Grinnell Co., San Francisco (1) \$11,266 (2) \$10,300 (3) \$10,268.

Item B (Felt, Etc.) Tiley Mfg. Co., 744 Folsom St., San Francisco, (3) \$1,706.

Item C (Intake Caisson) California Steel Prod. Co., (3) \$60. Western Pipe & Steel Co., (3) \$107. Bethlehem Shipbuilding Co. (1) \$263 (2) \$251 (3) \$232.

Item D (Materials for Trestle and Crib at Intake) California Steel Products Co., 452 Bay St., San Francisco, (3) \$14.

Item E (Water Filter)

Straut Steffens Equipment Co., 29 Moss St., San Francisco (1) \$686 (2) \$623 (3) \$550.

Crane Co., San Francisco (3) \$656. California Filter Co., (2) \$682.

International Filter Co., San Francisco (1) \$855 (2) \$730 (3) \$710.

American Water Softener Co., New Jersey (2) \$1,000. Bids held under advisement.

PLAYGROUNDS & PARKS

ALAMEDA, Alameda Co., Cal.—W. H. Larson, 2805 Park St., Berkeley, at \$745 awarded contract by city council to resurface south tennis court in Lincoln Park.

SANTA ROSA, Sonoma Co., Cal.—Geo. S. Pittcock and Son, Ltd., Berkeley, at \$1,300 awarded contract by city council to construct ornamental cascade and fish pond in Fremont Park.

STREETS AND HIGHWAYS

SANTA CRUZ, Santa Cruz Co., Cal.—Leo Cardwell, Manor Ave., Santa Cruz, at \$3,320 awarded contract by county supervisors to construct a portion of the Coast Road, about 4 miles north of Davenport in the Seaside Rd. District. Project involves:

- (1) 5000 cu. yds. roadway excavation without classification;
 - (2) 120 lin. ft. corrugated metal culverts, 12-in. dia. in place.
- Following is a complete list of bids:
- | | |
|-------------------------------|---------|
| Leo Cardwell, Santa Cruz..... | \$3,250 |
| J. L. Connor, Monterey..... | 3,600 |
| Pacific Const. Co..... | 4,172 |
| Earl W. Heple..... | 4,398 |

SACRAMENTO, Cal.—Clark & Henry, 564 Market St., San Francisco, at \$21,092 submitted lowest bid to the county supervisors for grading and paving Del Paso Blvd. from the North Sacramento city limits to Ben All Rd.

Following is a complete list of bids:

Clark & Henry, S. F.....	\$21,647
McClaway Con. Co., Sacto.....	22,470
Tschert & Son, Sacto.....	23,151

Bids held under advisement.

FRESNO-KERN COUNTIES, Cal.—Pacific Tank Lines, Inc., Los Angeles, at \$230,500 awarded contract by State Highway Commission to treat with light fuel oil as a dust palliative, 15.4 miles in Fresno county, between the west boundary and 2 miles east of Parkfield Junction and in Kern county, 8.2 miles between the west boundary and 2 miles west of Maricopa.

MENDOCINO COUNTY, Cal.—Jas. W. Bertram, Hopland, at \$7131.25 awarded contract by State Highway Commission to surface with untreated crushed gravel or stone, 2.1 miles between Piercy and the north boundary.

MARTINEZ, Contra Costa Co., Cal.—Until July 6, 11 A. M., bids will be received by county supervisors to improve Fennell Ave. in town of Pinole. Project involves:

- | |
|--|
| 2,285 cu. yds. excavation; |
| 2,067 tons base rock; |
| 208 tons No. 4 screenings; |
| 347 tons pea gravel; |
| 10,346 gals. emuls. asph. to be placed |
| 3,462 gals. road oil to be placed. |
- County will furnish emulsified asph. and road oil. Plans obtainable from R. R. Arnold, county surveyor.

MARIPOSA COUNTY, Cal.—A. Telchert and Son, Inc., 1846 27th Street, Sacramento, at \$14,646.10 awarded contract by State Highway Commission to cover with bituminous surface treatment consisting of asphaltic road oil and screenings, 12.5 miles between Lorenese on the Briceburg grade and El Portal.

TULARE-FRESNO COS., Cal.—Until July 2, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading 2.380 miles of Route 1, the General's Highway in General Grant National Park in Tulare and Fresno Counties. Project involves:

- (1) 15 acres clearing;

- (2) 74,000 cu. yds. unclass. excav.;
 - (3) 217 cu. yds. unclass. excav. for structures;
 - (4) 1,800 sta. yds. overhaul;
 - (5) 2,380 miles finish earth graded rd.
 - (6) 84 cu. yds. masonry;
 - (7) 1,130 lin. ft. c. m. pipe in place.
- Plans obtainable from district engineer on deposit of \$10, returnable, check for same to be made payable to Federal Reserve Bank of San Francisco.

SUTTER-BUTTE COUNTIES, Cal.—Jones and King, Hayward, at \$95,487 awarded contract by State Highway Commission to place bituminous treated rock borders on 19.2 miles between Yuba City and Biggs Road.

AMADOR COUNTY, Cal.—E. F. Hilliard, 1355 42d St., Sacramento, at \$5,508.75 awarded contract by State Highway Commission for bituminous surface treatment on 2.7 miles bet. Drytown and Amador City. Complete list of unit and total bids reported in issue of May 26.

MONO COUNTY, Cal.—Pacific Tank Lines, Inc., 2730 S Alameda St., Los Angeles, at \$2.49 per barrel (\$6,356) awarded contract by State Highway Commission for oiling highway from Deadman's Creek to Leevining and from Leevining to 5 miles over Toga Pass.

IMPERIAL COUNTY, Cal.—Griffith Co., Los Angeles Railway Bldg., Los Angeles, at \$95,500 awarded contract by State Highway Commission to widen with asphaltic concrete 21 miles of existing pavement between East High Line Canal and Sand Hills. Complete list of unit and total bids received on this project published in issue of June 3.

OAKLAND, Calif.—City council declares intention to improve portions of Guido St., Norton Ave., and certain conduit right-of-ways adjacent to Guido St., involving grade, curbs.

- (1) 15,208 sq. ft. grading;
- (2) 593 lin. ft. concrete curb;
- (3) 1,193 sq. ft. concrete gutter;
- (4) 7,918 sq. ft. of penetration macadam pavement;
- (5) 215 lin. ft. 2-ft. x 6-in. by 2-ft. x 6-in. concrete culvert;
- (6) 1 manhole with inlet top;
- (7) 1 manhole with standard top;
- (8) 84 lin. ft. 12-in. plain concrete pipe conduit;
- (9) 92 lin. ft. 21-in. reinf. concrete pipe conduit;
- (10) 2 storm water inlets (34-in. opening).

1911 Act. Hearing June 30. W. W. Chapell, acting city clerk. Walter N. Frickstad, city engineer.

ISLETON, Sacramento Co., Calif.—City trustees will call election shortly to vote bonds of \$8,000 to finance street improvements.

COLUSA COUNTY, Calif.—Union Paving Co., Call Bldg., San Francisco, at \$220,247, submitted low bid June 10 to State Highway Commission to grade and pave with Portland cement concrete, 8.6 miles between Williams and Maxwell. Complete list of bids follows:

- | | |
|-------------------------------------|-----------|
| Union Paving Co., S. F..... | \$220,247 |
| Hanrahan Co., S. F..... | 235,913 |
| N. H. Bell, Colville..... | 241,787 |
| C. W. Wood, Stockton..... | 249,543 |
| Frederickson & Watson, Oakland..... | 259,235 |
| Basich Bros., Torrance..... | 259,263 |

OAKLAND, Calif.—City council declares intention to improve Madrone Path and a portion of Masterson St. adjacent to Madrone Path, involving:

- (1) 210 cu. yds. fill;
- (2) 1234 sq. ft. sidewalk;
- (3) 228 ft. 15-in. reinf. pipe conduit.

1911 Act. City will pay 27 1/2% of the cost from General Fund. Hearing June 25. W. W. Chappell, acting city clerk. Walter N. Frickstad, city engineer.

MARYSVILLE, Yuba Co., Cal.—City council declares intention (39) to improve portions of 12th St., Ramirez St., 12th, Yuba and 9th Sts., involving construction of concrete curbs, gutters, c. i. gutter drains with c. i. covers, wooden box culverts; 6-in. concrete pipe. 1911 Act. Bond Act 1915. Hearing June 22. Chester O. Gates, city clerk.

SACRAMENTO, Cal.—Until June 15, 10 A. M., bids will be received by Harry W. Hall, county clerk, for surfacing Manzanita Ave. with asphaltic macadam from Fair Oaks Blvd. northwesterly to Madison Ave. Estimated cost \$7,000.

Certified check 10% payable to Chairman of the Board of Supervisors required with bids. Plans obtainable from County Engineer Chas. Deterding, Jr., at Sacramento.

MONTEREY COUNTY, Cal.—C. W. Wood, Stockton, at \$15,104 awarded contract by State Highway Commission for oiling and constructing shoulders on ten miles between Chualar and Salinas.

SHASTA COUNTY, Calif.—D. McDonald, 1118 G St., Sacramento, at \$12,154 awarded contract by the State Highway Commission to treat 60.1 miles between Redding and Fall River with heavy fuel oil and cut-back asphalt as a dust palliative.

EL DORADO COUNTY, Cal.—C. E. Force, 70 Bellevue St., Berkeley, at \$9,574.50 awarded contract by the State Highway Commission for placing additional crushed gravel or stone and treating with cutback asphalt by road mix method, 1.7 miles between Clark's corner and Placerville. Complete list of unit and total bids received on this project published in issue of May 26.

IMPERIAL COUNTY, Calif.—Until July 1, 2 P. M., bids will be received by State Highway Commission to construct oil treated crushed gravel or stone borders on 43.2 miles between Dixieland and Holtville and between El Centro and 4 miles west of Westmoreland.

SAN BERNARDINO COUNTY, Cal.—Until July 1, 2 P. M., bids will be received by State Highway Commission to grade and surface with oil treated crushed gravel or stone, 23.7 miles between 6 miles west of Baker and Halloran Summit.

SALINAS, Monterey Co., Cal.—Until June 18, 10 A. M., bids will be received by C. F. Joy, county clerk, for grading and surfacing a portion of the Watsonville-San Juan Road from the State Highway near Dunsmuir westerly 2 1/2 miles in Supervisor District No. 1. Specifications obtainable from Howard Cozens, county surveyor, on deposit of \$10, returnable.

STOCKTON, San Joaquin Co., Cal.—Until June 22, 11 A. M., bids will be received by Eugene D. Green, county clerk, to improve the A. O. Stewart Road from the existing pavement northwesterly along drainage canal. Certified check 10% payable to Chairman of the Board of Supervisors required with bid. Plans obtainable from Julius Manthey, county surveyor.

NEVADA CITY, Nevada Co., Cal.—No bids received by county supervisors to reconstruct county road between Grand Valley and Bear River, via Empire Mine, Peard and Chicago Park, a distance of 9.4 miles; road bed to be graded 20-ft. in width.

with a crusher run base and a bituminous macadam surf, 16-ft. in width.

ELKO COUNTY, Nev.—Until July 22, 2 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, for furnishing, applying and mixing asphaltic fuel oil with the roadway surface in Elko County bet. East Foot of Peopas and 4 miles east of Silver Zone, a length of 18.80 miles.

Certified check 5% required with bid. Plans on file in office of U. S. Bureau of Public Roads, 461 Market Street, San Francisco, and obtainable from the engineer.

EUREKA COUNTY, Nev.—Until July 22, 2:30 P. M., bids will be received by S. C. Durkee, state highway engineer, Carson City, for grading, constructing structures and placing surfacing material between 14 miles west of Hay Ranch and Hay Ranch, a length of 13.83 miles.

Certified check 5% required with bid. Plans on file in office of U. S. Bureau of Public Roads, 461 Market Street, San Francisco, and obtainable from the engineer.

BERKELEY, Alameda Co., Calif.—Property owners will meet shortly with city council to discuss proposed improvement of Spruce Street, including paving, etc. The cost will exceed \$100,000. Harry Goodridge is city engineer.

SAN JOAQUIN COUNTY, Cal.—N. M. Ball, Porterville, at \$185,801.75 awarded contract by State Highway Commission for highway construction between Turner Station and Stockton, to be paved with cement concrete. Complete list of unit and total bids reported in issue of June 3.

SAN FRANCISCO—Until June 17, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to improve Sunnydale Avenue between Cora and Rutland Sts., where not, including crossing of Peabody St., involving:

- (1) 153 lin. ft. armored conc. curb;
- (2) 25 lin. ft. conc. curb (reset);
- (3) 320 sq. ft. 1-course concrete sidewalks;
- (4) 1 trick catchbasin;
- (5) 20 lin. ft. 10-in. V.C.P. culverts;
- (6) 33 lin. ft. 8-in. V.C.P. sewer;
- (7) 36 lin. ft. 6-in. V. C. P. side sewer
- (8) 5,214 sq. ft. asph. conc. pavement, consisting of 2-in. asph. conc. surf. on 6-in. class F concrete base.

Certified check 10% payable to the Clerk of the Board of Supervisors required with bid. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall.

RENO, Nevada—Until June 8, 5 P. M., bids will be received by J. B. Rees, city clerk, for 50,400 sq. ft. of asphalt concrete pavement on present macadam base in streets of the Fourth Ward. Certified check 10% upon a Nevada Bank, payable to the city required with bid. Plans obtainable from city engineer on payment of \$5, not returnable.

ALAMEDA, Alameda Co., Cal.—Until June 16, 8 P. M., bids will be received by W. E. Varcoe, city clerk, to furnish 1500 tons, more or less, of crushed rock; 1000 tons, more or less, screenings and 600 tons, more or less, Bird's eye screenings. Certified check 10% payable to city required with bid. Specifications obtainable from clerk.

ALAMEDA, Alameda Co., Cal.—Until June 16, 8 P. M., bids will be received by W. E. Varcoe, city clerk, to furnish 2000 barrels, more or less, "Calol L 2" road oil or equal and 2000 barrels, more or less, "Bitumuls-95" or equal. Certified check 10% payable

to city required with bid. Specifications obtainable from clerk.

SACRAMENTO, Cal.—Until June 15, 10 A. M., bids will be received by H. W. Hall, county clerk, (1631) to improve portions of North B Street, involving grading; asphalt macadam pavement, consisting of 5-in. crushed rock base course with 2-in. asphaltic macadam surface. Work under County Improvement Act 1921. Certified check 10% payable to county required with bid. Plans on file in office of the clerk, Chas. Detering, Jr., county engineer.

SONORA, Tuolumne County, Cal.—County Surveyor R. D. Strough has completed plans for three miles or road from a point on the Sonora-La Grange road at Clavey's to Don Pedro Dam. Will be 20-ft. wide. Bids will be asked shortly.

MENLO PARK, San Mateo Co., Cal.—A. G. Ralsch, 46 Kearny St., San Francisco, at \$19,954.31 awarded contract by city council (31-2) to improve Oak Grove and Cherry Aves., Laurel and Mills Sts., and Glenwood Ave., involving:

- (1) 3,000 cu. yds. excavation;
 - (2) 200 cu. yds. embankment;
 - (3) 40,620 sq. ft. 1½-in. Emulsified asph. pave. on 4-in. rock base;
 - (4) 30,000 sq. ft. resurfacing;
 - (5) 7,193 lin. ft. concrete curb;
 - (6) 73 driveway entrances;
 - (7) 6 part circle culverts;
 - (8) 399 lin. ft. sewer connections;
 - (9) 44,825 sq. ft. concrete sidewalks.
- Following is a complete list of bids:
- | | |
|----------------------------------|----------|
| A. G. Ralsch, San Francisco..... | \$19,954 |
| C. W. Wood, Stockton..... | 20,176 |
| W. A. Dontanville, Sallinas..... | 25,117 |
| F. N. McGow, Stockton..... | 25,766 |

SHASTA COUNTY, Cal.—Until June 3, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading Section B of Route 77, Mt. Shasta - Mt. Lassen National Forest Highway, in Lassen National Forest in Shasta County, a length of 7.496 miles. Project involves:

- (1) 45 acres clearing;
- (2) 54,600 cu. yds. unclass. excav.;
- (3) 520 cu. yds. unclass. excav. for structures;
- (4) 25,500 sta. yds. overhaul;
- (5) 7.478 miles finish earth graded rd.
- (6) 34,551 M. B. M. bridge timber in place;
- (7) 1570 lin. ft. corr. metal pipe;
- (8) 150 cu. yds. handhail riprap;
- (9) 26 each, right of way monuments
- (10) 235 sq. yds. asph. plank wearing surface;
- (11) 11,200 cu. yds. selected material for backfill;
- (12) 15,800 c. y. misc. haul select materials for backfill.

Plans obtainable from district engineer on deposit of \$10, returnable.

check for same to be made payable to Federal Reserve Bank of San Francisco.

CARMEL, Monterey Co., Cal.—City council declares intention (592) to improve Mission St. bet. Ocean ave. 8th Aves., involving grading, monolithic hyd. cement concrete curbs and gutters, waterbound macadam pavement consisting of local quarried material, hyd. cem. conc. catchbasins, corr. iron pipe culverts, hyd. cem. concrete storm sewer pipe, 24-in. and 30-in. dia. 1911 Act. Bond Act 1915. Hearing June 17. Sadlee Van Brower, city clerk. Cozens and Davies, engineers, Sallinas.

SAN FRANCISCO—Bureau of Engineering, Department of Public Works, 3rd Floor, City Hall, is completing plans to improve Section C of the Alemany Blvd. from Seneca Ave. to Naglee Ave., by the construction of permanent pavements and appurtenances. Work will be financed by the 1927 Blvd. Bond Fund. Bids will be asked shortly.

SUTTER COUNTY, Cal.—Until June 22, 2:30 P. M., bids will be received by C. H. Whitmore, district engineer, State Highway Commission, for grading and paving with asphalt concrete, 0.3 mile near the Sutter County Hospital.

SAN JOSE, Santa Clara Co., Cal.—Proceedings will be started at once by city council to pave 31 blocks of streets, including portions of Mt. Hamilton View Drive, 20th, 7th, Montgomery, Clabbar Sts., etc. Wm. Popp, city engineer.

IMPERIAL COUNTY, Cal.—As previously reported, bids will be received July 1 by State Highway Commission for oil treated crushed gravel or stone borders on 4.2 miles between Dixie-land and Holtville and between El Centro and 4 miles west of Westmoreland. Project involves:

- (1) 44,800 tons oil treated crushed gravel or stone borders;
- (2) 604 lbs. heavy fuel oil (seal coat)
- (3) 912 tons screenings (seal coat).

SAN RAFAEL, Marin Co., Calif.—Highway Builders, Ltd., Redhill Ave., San Anselmo at \$8,799.91 awarded contract by county supervisors for surfacing and treating with emulsified asphalt and screenings, 4.3 miles of the road from one mile south of Nicasio Road, thence north along the Nicasio Road to the Red Hill Road, involving 400,000 sq. ft. emulsified asphalt and screenings in place.

Complete list of bids follows:

Highway Builders, Inc.....	\$ 8,799.91
P. S. Harless, San Rafael.....	9,599.09
Jack Casson, Hayward.....	9,665.57
Lee J. Immi, Berkeley.....	10,555.45
Pacific Paving Co., Oakland.....	11,189.00

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ANTIOCH, Contra Costa Co., Cal.—C. H. Brown, 220 S 12th St., Richmond at \$46,317.60 awarded contract by city council to improve streets in Willis Addn. Involving (approximately): 326,030 sq. ft. grading; 143,551 sq. ft. 5-in. concrete pave.; 10,612 ft. 4- to 8-in. vit. clay sewers; 6,560 ft. 4- to 10-in. cast iron water pipe.

Complete list of total bids follows:
 C. H. Brown, Richmond.....\$46,317.60
 Bundesen & Lauritzen, Pitts-
 burg 49,371.99
 M. J. Bevanda, Stockton..... 51,731.92
 Hutchinson Co., Oakland..... 51,159.75
 Valley Paving & Const. Co.,
 Fresno 52,008.91
 Redwood Const. Co., Eureka, 53,679.63
 W. A. Dontanville, Salinas..... 55,290.20
 R. H. Downer, San Leandro..... 55,295.55
 Healey-Moore, Oakland..... 56,487.32

SAN RAFAEL, Marin Co., Cal.—See separate bids tabulation on page five of this issue. Contract awarded to J. V. Galbraith, Petaluma, at \$34,017 for grading 4.3 miles of the Millerton-Marshall Bond Road No. 2, from one mile north of Millerton to Marshall.

SAN RAFAEL, Marin Co., Calif.—City council declares intention (\$80) to improve Laurel Place between Lincoln Ave. and west end of Laurel Place; portions of Nye and Wilkins Sts., involving:

- (1) 1,619 cu. yds. excavation;
- (2) 64,306 sq. ft. 3-in. rock subbase;
- (3) 64,306 sq. ft. 5-in. hydraulic concrete pavement;
- (4) 37 lin. ft. concrete curb (only);
- (5) 1,378 lin. ft. conc. gutter (only);
- (6) 3,447 lin. ft. conc. curb and gutter;
- (7) 2 standard catchbasins, complete;
- (8) 47 lin. ft. 10-in. C.I.P. culvert;
- (9) 183 lin. ft. 4x6x24-in. arch culvert, complete;
- (10) 14 lin. ft. 4x6x24-in. do;
- (11) 2 lampholes, complete;
- (12) 6 manholes, complete;
- (13) 398 lin. ft. 4-in. ironstone pipe;
- (14) 1,048 lin. ft. 6-in. do;
- (15) 1 cu. yd. concrete sewer protection.

1911 Act. Hearing June 22. Eugene W. Smith, city clerk. Herbert K. Brainerd, city manager.

REDWOOD CITY, San Mateo Co., Cal.—Of three proposed routes to the San Mateo-Hayward bridgehead intended primarily to speed travel for lower Peninsula, Palo Alto and San Jose motorists, County Surveyor J. S. James recommends the extension of 19th Ave., San Mateo.

This extension, which will be 7700 ft. long, 30 ft. wide with 20-ft. paving, and which will have a 240-ft. bridge across Seal creek, will cost \$45,000.

The second best route—that which would extend north from Belmont to the bridgehead—would cost about \$75,000, James estimates. The third route, north from Ralson Ave., would be prohibitive because of the high cost of building a fixed bridge across Seal creek.

MONO COUNTY, Cal.—Basalt Rock Co., Napa, at \$24,364 submitted only bid June 10 to State Highway Commission to treat with heavy fuel oil and cut-back asphalt as a dust palliative, 28.4 miles between Leevining and 2 miles west of Bridgeport.

MERCED COUNTY, Calif.—Stewart & Nuss, Inc., 406 Thorne St., Fresno, at \$12,750 submitted only bid June 10 to State Highway Commission to treat with heavy fuel oil to a width of 3-ft. on each side of the existing pavement, 37.8 miles between the foot of Pacheco Pass and the easterly boundary. Complete list of bids follows:
 Stewart N. Nuss, Fresno.....\$12,750
 Granite Const. Co., Watsonville 23,419
 A. Teichert & Son, Sacramento 24,514

The California Legislature has passed Assembly Bill No. 734, which requires the standardization of existing hydrant and fire hose coupling threads. It makes unlawful the sale of such equipment having other than "National Standard" threads. There are at present some nine varying threads, which preclude the concerted operations of fire departments of different communities in rendering assistance to one another in case of a major conflagration. The bill provides that the standardization is to be done over a period of five years or by under the direction of the State Fire Marshal (Chief of the Division of Fire Safety) in the Department of Industrial Relations.

The American Engineering Corporation, Ltd., of Sacramento, the Union Indemnity Company and the New York Indemnity Company are defendants in a suit for \$6,614.76 brought last week at Placerville by A. F. Baumhoff for labor and materials claimed to have been furnished the defendants in their contract to complete the El Dorado Irrigation District's Weber Creek dam.

The engineering corporation held the dam contract and the indemnity companies are named defendants since they are bondsmen for the contractor. The suit was brought by attorneys Abe Darlington and Henry S. Lyon for Baumhoff acting in behalf of himself and 15 other claimants. Baumhoff claims \$400.50 as owing. Other claims are as follows: Charles Fosatti, \$1,262.12; M. J. Ferrari, \$41.25; F. N. Hosking, \$50; Thomas Ward, \$47.87; William Latimer, \$23.50; J. C. Rasmussen, \$25; William Baumhoff, \$377; James K. Pierson, \$309.10; Charles Snow, \$78.80; W. O. McClintock, \$377.70; Michigan-California Lumber Co., \$1,474.44; California Door Co., \$518.01; W. L. Amstaden estate, \$620.38; A. Pillet, \$24; and Burns Bros., \$425.

The economic depression has definitely reached the bottom of the decline. Sir Henry Thornton, president of the Canadian National Railways, believes, with certain signs indicating that business is definitely on the mend. Sounding a warning "not to believe we are off to the races," Sir Henry told members of the railway committee of the House of Commons, that he was of the opinion stocks were at "the irreducible minimum, with purchasing power starting again."

The first skyscraper, erected in 1883, is to be demolished to make way for a new fourteen million dollar office building in Chicago. The Field Estate is ordering its wrecking to make way for the new modern structure. In spite of the fact that office space in Chicago is today probably 17 per cent in excess of demand, it is anticipated that the demand will

be adequate by the time the new building is completed.

As proposed the structure will have 23 floors in the lower block on a lot which is a full block long in an east and west direction and half a block in the opposite direction. The tower part of the structure will be 42 stories high. It will be located on Adams Street between Clark and LaSalle. The first section to be constructed will be the west section, about 23 stories high, which will take the place of the old Home Insurance Building, the first skyscraper in the world of skeleton construction.

Uses of the Handy-Andy junior pulling jack are outlined in a 4-page leaflet issued by the John Waldron Corp., New Brunswick, N. J.

Robert D. Rennie of Portland, an active member of the Oregon State Association of Master Plumbers, was elected president of that body at the thirtieth annual convention in Bend, Ore. E. O. Pratt of Salem was elected vice-president and T. J. Rowe of Portland was re-elected treasurer. Walter J. Widmer of Portland was appointed secretary.

On April 30th ground was broken for the new \$16,000,000 New York City Freight Terminal Building. With the Radio City and New York Stock Exchange operations about ready to proceed, New York looks forward to a normal building year in 1931.

Under the sponsorship of the American Farm Bureau Federation and the National Lumber Manufacturers Association, 16,000 clubs living over \$20,000 farmers and farm wives have begun to study the why and the how of home remodeling and repairing. Long-neglected, the farm home will be subjected to an intensified analysis to show how to speedily finish attics, installation of various modern conveniences can be done more economically now. According to the Lumber Manufacturers Association, response from early club activities has been unusually encouraging, and is expected to accelerate rural home construction work during the summer and fall.

A patent has been issued to William E. Foster of Cleveland Heights, Ohio, for a process of reducing sounds in auditoriums by applying sound-absorbent materials to the surfaces of seats facing the floor. Heretofore, Foster states, it has been the regular practice to apply sound-absorbing materials to walls and ceilings for the purpose of preventing an echo. An advantage of applying them to the undersides of seats, he notes, is that sound produced by the shuffling of feet of those occupying the seats will be absorbed.

CONTRACTORS' MACHINE WORKS

SPECIALISTS ON REPAIRING AND REBUILDING OF
Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;
BLACKSMITHING AND WELDING
Builders of Rosenberg Portable Car Unloaders

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57 Zoe St., bet. 3rd and 4th, off Brannan St.
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Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
836	Kirrane	Owner	3500
837	Roohi	Owner	3500
838	Rogers	Owner	4000
839	Palmer	Fiske	4500
840	Dilling	Zupar	4000
841	Boe	Owner	8000
842	Costello	Owner	9375
843	Shlaat	Dose	1300
844	Campbell	Owner	4000
845	Hayden	Madsen	10000
846	Collins	Owner	3500
847	Knight	Owner	3000
848	Meyer	Owner	5000
849	Peters	Owner	3500
850	Allison	Owner	7000
851	Rever	Owner	3500
852	Gallager	Coburn	1500
853	Nocetti	Follotti	6000
854	Bjorkman	Owner	3500
855	Keeley	Owner	8000
856	Mayer	Owner	4000
857	Morris	Owner	5000
858	Langkusch	Owner	3500
859	Kelleher	Erickson	4000
860	Morris	Owner	3500
861	Callagy	Owner	3500
862	McDonald	Owner	6000
863	Shapiro	Owner	7500
864	Bell	Callih	8300
865	General	Spivock	2000
866	Eggers	Owner	1000
867	Gillig	Malloch	2000
868	Capital	Owner	4000
869	Benson	Owner	4500
870	Jackson	Owner	3000
871	Jackson	Owner	9000
872	Mitchell	Owner	3000
873	Lercari	Owner	3000
874	Castle	Owner	10500
875	Jelm	Owner	3000
876	Drager	Owner	3500
877	Stoneson	Owner	12000
878	Pacific	Walker	1000
879	Herzig	Owner	12000

DWELLING
(836) NO. 890 WISCONSIN ST. One-story and basement frame dwelling.

Owner—J. Kirrane, 801 Wisconsin St., San Francisco.
Plans by Owner. \$3500

DWELLING
(837) W FOURTEENTH AVE 225 S Rivera. One-story and basement frame dwelling.

Owner—J. H. Roohi, 1894 18th Ave., San Francisco.
Architect—Not Given. \$3500

DWELLING
(838) E TWENTY-THIRD AVE 175 S Moraga. One-story frame dwelling.
Owner—J. W. Rogers, 1695 21st Ave., San Francisco.
Architect—Not Given. \$4000

DWELLING
(839) NW CLAREMONT 335 NE Ulloa. Two-story and basement frame dwelling.
Owner—S. M. Palmer, 1241 9th Ave., San Francisco.
Plans by Owner.
Contractor—F. Fiske, 1363 8th Ave., San Francisco. \$4500

DWELLING
(840) W TWENTY-FIFTH AVE 25 N Kirkham St. One-story and basement frame dwelling.

Owner—G. E. Dilling, 1519 22nd Ave., San Francisco.
Plans by W. G. Zupar, 522 Schwerlin St., San Francisco.
Contractor—W. G. Zupar. \$4000

DWELLINGS
(841) W TWENTY-FOURTH AVE 275 N Santiago. Two one-story and basement frame dwellings.
Owner—A. M. Boe, 700 Joost Ave., San Francisco.
Architect—Not Given. \$4000 each

DWELLINGS
(842) W THIRTY-SEVENTH AVE 230 S Anza. Three one-story and basement frame dwellings.
Owner—M. Costello, 821 34th Ave., San Francisco.
Plans by Owner. \$3125 each

ALTERATIONS
(843) NO. 95 CASELLI AVE. Alterations to dwelling for (2) flats.
Owner—G. E. Shlaat, 2390 Chestnut St., San Francisco.
Architect—Not Given.
Contractor—W. J. Dose, 174 Concord St., San Francisco. \$1200

DWELLING
(844) S IDORA 30 E Sydney Way; 1-story and basement frame dwelling.
Owner—J. V. Campbell, 1072 Bryant St. Architect—Not Given. \$4000

FLATS
(845) W DIVISADERO ST. 113 South Waller; two-story and basement frame (2) flats.
Owner—M. E. Hayden, 103 Sanchez St. Architect—F. W. Dakin, 625 Market Street.
Contractor—R. Madsen, 294 Ocean Avenue. \$10,000

DWELLING
(846) S LAKEVIEW 50 W Margaret Avenue; one-story and basement frame dwelling.
Owner—E. Collins, 430 Magnolia Ave. Plans by J. Fratessa. \$3500

WAREHOUSE
(847) W LEXINGTON 30 S Sycamore Ave.; two-story frame warehouse.
Owner—R. Knight, 665 Valencia St. Plans by Owner. \$3000

DWELLING
(848) NE COR JUANITA and Rex; 1-story and basement frame dwelling.
Owner—Meyer Bros., 727 Portola Dr. Plans by Owner. \$5000

DWELLING
(849) E 27th AVE, 200 S Kirkham; one-story and basement frame dwelling.
Owner—J. M. Peters, 797 25th Ave. Plans by Owner. \$3500

FLATS
(850) W 21st AVE 125 S Lincoln Way two-story and basement frame (2) flats.
Owner—Allison & Beck, 1312 Fulton Street.
Plans by John Beck. \$7000

DWELLING
(851) N KIRKHAM 82 W 82nd Ave.; one-story and basement frame dwelling.
Owner—F. Rever, 1205 4th Ave. Plans by Owner. \$3500

ALTERATIONS
(852) 1160 FULTON ST.; alterations and repairs to dwelling.
Owner—Mr. Gallager, % builder. Architect—Not Given.
Contractor—I. W. Coburn, 2048 Market St. \$1500

FLATS
(853) E BOYCE 150 N Geary St.; 2-story and basement frame (two) flats.
Owner—G. & A. Nocetti, Boyce St. Designer—L. Dallorso, 32 Jansen St. Contractor—R. Follotti, 949 Filbert St. \$6900

DWELLING
(854) SE THOMAS AVENUE 250 NE Jennings; one-story and basement frame dwelling.
Owner—V. Bjorkman, 3579 Mission St. Plans by Owner. \$3500

DWELLINGS
(855) E GAMBIER 25 N Silliman; two 1-story and basement frame dwellings.
Owner—M. P. Keeley, 4668 18th St. Plans by Owner. each \$4000

DWELLING
(856) SE JUANITA and Landsdale; one-story and basement frame dwelling.
Owner—Meyer Bros., 727 Portola Dr. Plans by Owner. \$4000

DWELLING
(857) NW COR. PINEHURST AND Kenwood; two-story and basement frame dwelling.
Owner—G. W. Morris, 96 Pinehurst Way.
Architect—D. E. Jaekle, 747 Call Bldg. \$5000

ALTERATIONS
(58) 5308 MISSION ST.; alterations to store front.
Owner—F. B. Langkusch, 5308 Mission Street.
Architect—No Given. \$1000

DWELLING
(859) N 20th AVE, 200 E Sanchez; one-story and basement frame dwelling.
Owner—Mr. and Mrs. J. Kelleher. Architect—Not Given.
Contractor—H. Erickson, 972 Chenery Street. \$4000

DWELLING
(860) E 46th AVE, 125 S Balboa St.; one-story and basement frame dwelling.

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Owner—S. Morris, 804 Brewster Ave., Redwood City.
Architect—Not Given. \$3500

DWELLING
(861) E 16th AVE, 50 N Wawona; 1-story and basement frame dwelling.
Owner—M. A. Callagy, 2674 16th Ave. Architect—Not Given. \$3500

DWELLINGS
(862) E ALABAMA 104 N 24th St.; two 1-story and basement frame dwellings.
Owner—P. McDonald, 1049 Treat Ave. Architect—Not Given. each \$3000

ALTERATIONS
(863) 825 MARKET ST.; alterations to market.
Owner—Shapiro Bros., 945 Market St. Architect—D. A. Briedy, 821 Market St. \$7500

FILM EXCHANGE
(864) E HYDE ST. 137 S Eddy St.; two-story and basement class E film exchange.
Owner—Bell Bros., 740 Mills Bldg. Architect—W. D. Peugh, 333 Montgomery St.
Contractor—Cahill Bros., 206 Sansome Street. \$3800

SERVICE STATIONS
(865) SW COR. THIRD and Harrison Sts.; two 1-story class C service station buildings.
Owner—General Petroleum Corp. Architect—Not Given.
Contractor—R. Spivock, Ltd., Shell Bldg. each \$1000

ALTERATIONS
(866) NO. 86 WALTHAM ST. Alter and move dwelling.
Owner—T. G. Egger, Premises. Architect—R. R. Irvine, 747 Call Bldg., San Francisco. \$1000

ALTERATIONS
(867) NO. 2512 MISSION. Alter stores.
Owner—L. Gillig, Post and Franklin Sts., San Francisco.
Architect—Not Given.
Contractor—J. S. Malloch, 666 Mission St., San Francisco \$2000

ALTERATIONS
(868) NE PINE AND MONTGOMERY. Alter stores.
Owner—Capitol Co., % 625 Market St., San Francisco.
Architect—H. A. Minton, Bank of America Bldg., San Francisco. \$4000

DWELLING
(869) E FIFTEENTH AVE 133 S Santiago. One-story and basement frame dwelling.
Owner—A. J. Menson, 158 Miramar Ave., San Francisco.
Architect—Not Given. \$4500

DWELLING
(870) E COLLINGWOOD 126 N 21st St. One-story and basement frame dwelling.
Owner—Mr. and Mrs. J. R. Jackson, 441 Jones St., San Francisco.
Architect—R. R. Irvine, 747 Call Bldg., San Francisco. \$3000

FLATS
(871) E COLLINGWOOD 100 N 21st St. Two-story and basement frame (2) flats.
Owner—Mr. and Mrs. J. R. Jackson, 441 Jones St., San Francisco.
Architect—R. R. Irvine, 747 Call Bldg., San Francisco. \$9000

DWELLING
(872) W TWENTY-SEVENTH AVE 100 S Taraval. One-story and basement frame dwelling.
Owner—Mr. and Mrs. J. F. Mitchell,

2401 27th Ave., San Francisco.
Plans by Owner. \$9000

ALTERATIONS
(873) NO. 1499 THOMAS AVE, Alter store for flat.
Owner—G. Lercari, 1409 Thomas Ave., San Francisco.
Architect—Not Given. \$3000

DWELLINGS
(874) SE ALLEMAN BLVD. AND Admiral Ave. Three one-story and basement frame dwellings.
Owner—Castle Bldg., 830 Market St., San Francisco.
Plans by D. E. Jaekle, 744 Call Bldg., San Francisco. \$3500 each

DWELLING
(875) E TWENTY-SECOND AVE 113 S Noreiga. One-story and basement frame dwelling.
Owner—G. Jehn, 589 Victoria St., San Francisco.
Architect—Not Given. \$3000

DWELLING
(876) W THIRTY-FIRST AVE 150 N Ulloa. One-story and basement frame dwelling.
Owner—O. Draeger, 2241 17th Ave., San Francisco.
Plans by E. A. Anderson, 1177 De Haro St., San Francisco. \$3500

DWELLINGS
(877) W TWENTY-FIFTH AVE 200 N Vicente. Three one-story and basement frame dwellings.
Owner—Stoneson Bros. & Thorinson, 279 Yerba Buena Ave, San Francisco.
Architect—Not Given. \$4000 each

ALTERATIONS
(878) NO. 745 MARKET ST. Alter offices.
Owner—Pacific States Auxilliary Corp. Premises.
Architect—A. F. Roller, Croker First National Bank Bldg., San Francisco.
Contractor—P. J. Walker, 607 Sharon Bldg., San Francisco. \$1000

DWELLINGS
(879) W TWENTY-NINTH AVE 275 S Ulloa. Three one-story and basement frame dwellings.
Owner—A. J. Herzog, 635 Victoria St., San Francisco.
Architect—J. H. Vore. 4000 each

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
109	McCarthy	Meyer	7389
110	Roman	Severin	6939
111	Hayden	Nadsen	12000
95	Oakland	Moore	5217
112	Railway	Cordes	1296
113	Hieronimus	Doelger	6250

DWELLINGS
(109) LOTS 5 and 6 PLK 2956-A Map Sub No 7, Miraloma Park; all work on two 1-story and basement frame dwellings.
Owner—The McCarthy Co., 46 Kearny Street.
Architect—Not Given.
Contractor—Meyer Bros., 727 Portola Drive.
Filed June 4, '31. Dated May 20, '31.
Side and roof sheathing on.....\$1847.25
Plaster on coated..... 1847.25
Completed..... 1847.25
Usual 35 days..... 1847.25
TOTAL COST, \$7389
Limit, 90 days. Plans and Spec. filed.

ELECTRIC WORK
(110) NW JUDAH ST. and Funston Ave. (St. Anne's Church); electric work.

Owner—The Roman Catholic Archbishop, 1100 Franklin St.
Architect—W. D. Shea, 454 Montgomery Street.

Contractor—Severin Electric Co., 172 Clara St.
Filed June 4, '31. Dated May 27, '31.
Fifth of each month.....75%
Usual 35 days..... 25%
TOTAL COST, \$6939
Bond, guarantee of work for 12 months after completion, \$694, \$6939. Sureties, The Actina Casualty & Surety Co. Plans and Spec. filed.

BUILDING

(111) W DIVISADERO ST. 113 South Waller St. S 27 x W 190; all work on two-story frame and basement building.

Owner—M. E. Hayden, 103 Sanchez Street.
Architect—F. W. Dakin, 625 Market St. Contractor—R. Madsen, 294 Ocean Avenue.
Filed June 5, '31. Dated June 2, '31.
1st and sub-floors.....\$1800
Plumbing roughed in..... 1800
Plastered..... 2400
Completed and accepted..... 3000
Lien period elapsed..... 3000
TOTAL COST, \$12,000
Limit, Sept. 3, '31. Plans and Spec. filed.

STRUCTURAL STEEL

(95) 730 29th St. Oakland; furnishing and installing structural steel for laundry building.
Owner—The Oakland Laundry Co., 730 29th St., Oakland.
Architect—Miller and Warnecke, Financial Center Bldg., Oakland.
Contractor—Moore Dry Dock Co., foot of Adeline St., Oakland.
Filed June 5, '31. Dated June 1, '31.
On completion.....80%
30 days after completion..... 20%
TOTAL COST, \$5217
Limit, 25 days. Plans and Spec. filed.

ALTERATIONS

(112) 611-31 FOLSOM ST.; alterations to 2nd and 3rd floors and roof of building.
Owner—Railway Express Agency, Inc., 2nd and Mission Sts.
Architect—Not Given.
Contractor—A. W. Cordes, 666 Mission Street.
Filed June 8, '31. Dated May 20, '31.
Completed and accepted.....75%
Usual 35 days..... 25%
TOTAL COST, \$1296
Bond, \$1296. Sureties, Detroit Fidelity & Surety Co. Forfeit, \$20. Limit, 20 days. Plans and Spec. filed.

RESIDENCE

(113) N QUINTARA ST. and W 17th Ave. W 110 x N 34; all work on 1-story and basement frame residence.
Owner—A. G. and A. V. Hieronimus, 1329 26th Avenue.
Architect—C. P. Strothoff, 2714 15th Street.
Contractor—H. Doelger, 300 Judah St. Filed June 10, '31. Dated May 23, '31.
Frame up.....\$1562.50
Brown coal..... 1562.50
Completed and accepted..... 1562.50
Usual 35 days..... 1562.50
TOTAL COST, \$6250
Bond, \$6250. Sureties, F. Doelger and T. Weisman. Limit, 100 days. Plans and Spec. filed.

COMPLETION NOTICES

San Francisco County

Moraga S 25 x E 120. R Gilpin to H P Hobbs..... June 5, 1931
June 5, 1931—E GREAT HIGHWAY 150 N Ulloa 25x126. Christine and Adam Ruppel to whom it may concern..... June 5, 1931
June 4, 1931—W KEARNY ST and 25th Francisco St N 137-6 x W 320-10. Bradshaw Realty Co to Cahill

Bros. June 3, 1931
 June 4, 1931—INTER N 26th and W
 Hampshire. Frank Amatore to
 whom it may concern. June 2, 1931
 June 4, 1931—E TOCOCOLO AVE 60
 N Lathrop Ave N 90 x E 100. Wm
 H Grabo to whom it may concern
 June 3, 1931
 June 4, 1931—LOT 26 BLK 2963 map
 Sub No 4 Miliana Park. Meyer
 Bros to whom it may concern.
 June 2, 1931
 June 4, 1931—W 14th Ave 260 N
 Taraval 30x127-6; E 16th Ave 125 S
 Vicente 25x120. J W Rogers to
 whom it may concern. May 29, 1931
 June 2, 1931—W SIXTEENTH AVE
 275 S Quintara S 25xW 120. E A
 Anderson to whom it may concern.
 June 3, 1931
 June 3, 1931—NE PALOU AVE 175
 NW Quilt Bk 204, O'Neil & Haley
 Tract. Victo Bjorkman to whom
 it may concern. June 2, 1931
 June 3, 1931—E FOURTEENTH
 Ave 225 and 255 N Taraval St. N
 30x E 120. A Halsen to whom it
 may concern. June 3, 1931
 June 5, 1931—NW CUYAGA AVE 75
 NE Rousseau St N 50 x W 100.
 L Besio to whom it may concern.
 June 3, 1931
 June 5, 1931—W 14th Ave 280 S
 Taraval St S 20 x W 125. K John-
 sen to J V Westlund. June 5, 1931
 June 6, 1931—S GREEN ST and E
 Laguna St E 25 x S 100. D Bar-
 wald to whom it may concern.
 June 3, 1931
 June 5, 1931—1573-75-77 TURK ST.
 F I Rogers to E Rosemont.
 April 30, 1931
 June 5, 1931—NW CIRCULAR AVE
 196-8 SW Bayden Lot 34 Blk 43,
 Sunnyside. R Greene to H A
 Thrall. June 5, 1931
 June 5, 1931—S CHESTNUT 137-6 W
 Kearny 137-6x137-6. A G and R
 West to W Philips. June 5, 1931
 June 5, 1931—E DANTON ST 275 N
 Cayuga St 28x100. A Berwick to
 whom it may concern. June 5, 1931
 June 6, 1931—E FLORIDA ST 251 S
 20th St, No 33 Florida St, Walter
 J Schmidt to whom it may concern.
 June 5, 1931
 June 6, 1931—SE UNION and Pierce
 S 80-6 x E 112-6. Wm J Raffetto
 to Fracchia & Truffelli. June 1, 1931
 June 6, 1931—SE MOSCOW 275 NE
 Brazil, 351 Moscar Ave. A W
 ofsky to whom it may concern.
 June 2, 1931
 June 6, 1931—S MARIPOSA 25 W
 Rhode Island W 75 x S 75. Chas
 W Gompertz to A D Colman.
 June 2, 1931
 June 6, 1931—E 23th Ave 200 South
 Judah S 25 x E 120. F J and H
 Geheran to whom it may concern.
 June 4, 1931
 June 6, 1931—S VICENTE 52-6 W
 15th Ave W 25 x S 120. G O Stalin
 to whom it may concern. June 3, 1931
 June 8, 1931—LOTS 32 and 34 BLK
 6971-B and lots 2, 3 and 4 blk
 7028-A, Map Sub No 11 Geneva
 Terrace. Henry and Hazel Stone-
 son to whom it may concern.
 June 3, 1931
 June 9, 1931—W THIRY-THIRD
 Ave 325 N Taraval N 25xW 120.
 Nils E Johnson to whom it may
 concern. June 9, 1931
 June 9, 1931—E TWENTY-NINTH
 Ave 275 N Santiago 25x E 120.
 Nils E Johnson to whom it may
 concern. June 9, 1931
 June 9, 1931—E THIRTY-SECOND
 Ave 100 S Irving S 25x E 120. J I
 and M A Lennon to O Swanson.
 June 9, 1931
 June 9, 1931—W TWENTY-SEV-
 enth Ave, Cor, Moraga Lot 15 Blk
 1917. A M Alexander to whom it
 may concern. June 9, 1931
 June 9, 1931—N SANTIAGO 57-6xW
 17th Ave 25x100. J W Rosengren
 to whom it may concern.

JUNE 9, 1931
 June 9, 1931—1609-23 FILLMORE ST.
 Robert White Co to Joel Johnson
 & Son. June 9, 1931
 June 9, 1931—N VISITACION AVE
 100 W Desmond St. The Rugg
 Co to whom it may concern.
 June 9, 1931
 June 9, 1931—N VISITACION AVE
 1314 W Desmond St. The Rugg
 Co to whom it may concern.
 June 8, 1931—S RIVERA 95 and 120
 E 32nd Ave. Thomas J Sullivan to
 whom it may concern. June 6, 1931
 June 8, 1931—E 33rd AVE 250, 225,
 200, 175, 275, 300 S Ulloa S 25 x E
 120. O L 1295. Henry and Hazel
 Stoneson to whom it may concern.
 June 3, 1931
 June 8, 1931—E EIGHTH AVE, 1960
 8th Ave. Charles J U Koenig to
 Charles J U Koenig & Son.
 June 8, 1931—W 34th AVE 25, 50
 and 75 S Ulloa, Thomas J Sulli-
 van to whom it may concern.
 June 6, 1931
 June 8, 1931—NE ONEIDA AVE
 187-6 SE Delano Ave SE 24-9 x
 NE 80 Blk 24 West End Map No 1.
 Stephen J Garibaldi to W Warren
 June 8, 1931

Tension Lumber Co to H and M
 Von Sabern.

BUILDING PERMITS

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
662	Gappa	Owner	1200
663	Harrison	Owner	3550
664	McAuslane	Nylander	4000
665	Sharon	Sharon	9000
666	Bullard	Owner	1000
667	Fleming	Owner	3500
668	Larmer	Owner	4575
669	Allen	DeVelbs	2000
670	Flynn	Owner	1575
671	Dooley	Owner	3000
672	Larmer	Owner	4500
673	Seabury	Owner	2000
674	Schmidt	Owner	1500
675	Morgensen	Owner	6000
676	McBride	Owner	3000
677	Roberts	Owner	1550
678	Roberts	Owner	1000
679	Roberts	Owner	1370
680	Annot	Justice	4550
681	Fitzgerald	Fertz	3900
682	Capitol	Nordstrom	8000
683	Lerch	Matheray	4000
684	Johnson	MacGregor	1500
685	Flaharty	Warn	3250
686	Parish	Money	4000
687	Bostwick	Rinkert	2400
688	Pickett	Pickett	2000
689	Valera	Johnson	2000
690	Fleming	Owner	3550
691	Whalen	Williamson	5000

LIENS FILED

San Francisco County

Recorded Accepted
 June 5, 1931—N VALLEJO 158-10 W
 Franklin W 80 x N 127-6. Superior
 Tile & Products Co vs Wm and H
 Van Herrick. \$825
 June 4, 1931—N VALLEJO ST 158-10
 W Franklin St W 80 x N 127-6. W
 P Fuller & Co vs Wm Van Herrick
 \$498.65
 June 4, 1931—N VALLEJO ST 158-10
 W Franklin St W 80 x N 127-6.
 The Berger Mfg Co of California
 vs C Terranova, Wm and H Van
 Herrick. \$1626.04
AMENDED LIEN
 June 6, 1931—N VALLEJO 158-10
 W Franklin W 50 x N 137-6. Sud-
 den Lumber Co vs Wm Van Her-
 rick. \$4214.94
 June 8, 1931—W 31st Ave 250 South
 Ulloa S 75 x W 120. A O Field vs
 Florence T Cullen, Samuel E Eph-
 ron. \$300
 June 8, 1931—N VALLEJO ST 158-
 10 W Franklin St W 80 x N 127-6.
 James Cantley vs Wm H Van
 Herrick. \$276.50
 June 5, 1931—N VALLEJO 158-10 W
 Franklin W 80 x N 127-6. Aetna
 Electric Co vs Wm and H Van
 Herrick. \$1088
 June 5, 1931—N VALLEJO 158-10 W
 Franklin W 80 x N 127-6. Sudden
 Lumber Co vs Wm Van Herrick.
 \$1833.27
 June 9, 1931—S DUNN 292-7 1/2
 W Dolores W 24xN 114. J C Ca-
 saretto vs H Ludeman and J
 Peterson. \$25.55

ALTERATIONS

(662) NO. 1114 DERBY ST., BER-
 KELEY, Alterations.
 Owner—J. Gappa.
 Architect—Not Given. \$1200

DWELLING

(663) NO. 526 BLOESOM WAY, SAN
 LEANDRO. One and one-half-
 story 6-room dwelling.
 Owner—A. F. Hanson, 2332 E-14th
 St., Oakland.
 Architect—Not Given. \$3550

DWELLING

(664) NO. 825 COLLIER DRIVE, SAN
 LEANDRO. One and one-half-
 story 5-room dwelling.
 Owner—G. W. McAuslane.
 Architect—Not Given.
 Contractor—Nylander Bros., 633 Mont-
 clair Ave., Oakland. \$4000

DWELLING

(665) W LEO WAY 250 N Willard
 Drive, OAKLAND. Two-story 7
 room dwelling.
 Owner—Evelyn Sharon, Sharon Bldg.,
 San Francisco.
 Architect—Ray E. Keefer, 770 Wesley
 Ave., Oakland.
 Contractor—Harford Sharon, Sharon
 Bldg., San Francisco. \$9000

ALTERATIONS

(666) NO. 254 HOBART ST., OAK-
 LAND; alterations.
 Owner—Edgars Exchange of Alameda
 County, Fremont.
 Architect—W. C. Lowe, 354 Hobart
 St., Oakland. \$1900

DWELLING

(667) S REDWOOD ROAD 40 W De-
 troit St., OAKLAND. One-story
 6-room dwelling.
 Owner—Andrew Fleming, 4125 Culver
 St., Oakland.
 Architect—Not Given. \$3950

DWELLING

(668) N FIFTY-SIXTH ST. 135 E
 Shattuck Ave., OAKLAND. Two-
 story 6-room dwelling and one-
 story garage.
 Owner—Edward Larmer, 90 Fairview
 Ave., Oakland.
 Architect—Not Given. \$4675

RELEASE OF LIENS

San Francisco County

Recorded Amount
 June 4, 1931—S JUDAH 125 W 14th
 Ave W 25 x S 120. Crowe Glass
 Co to whom it may concern.
 June 5, 1931—S ANZA 86-6 E 23rd
 Ave E 25xS 100 releasing 3-6 of
 above Ptl. Christenson Lumber
 Co to R Leon Lawrence and Sud-
 den Lumber Co.
 June 6, 1931—S McALLISTER 137-6
 E Buchanan St E 27-6 x S 120.
 Loop Lumber Co to H Dieling.
 June 6, 1931—S McALLISTER 137-6
 E Buchanan St E 27-6 x S 120.
 A Ramazzotti to H and M Von
 Sabern
 June 6, 1931—N JACKSON 87-6 E
 Steiner St E 25 x N 117-6 1/2. Chris-

ALTERATIONS
(669) NO. 757 EIGHTY-FIFTH AVE., OAKLAND. Alterations
Owner—Gordon Allen, Ltd., 757 85th Ave., Oakland.
Architect—Not Given.
Contractor—C. Dudley DeVelbiss, 354 Hobart St., Oakland. \$2000

DWELLING
(670) E THIRTY-EIGHTH AVE 70 N Masterson St., OAKLAND. One story 6-room dwelling and one-story garage.
Owner—W. E. Flynn, 3470 Maybelle St., Oakland. \$1575
Architect—Not Given.

DWELLING
(671) E MORCOM AVE 60 N Simons St., OAKLAND. One-story 6-room dwelling.
Owner—Fred T. Dooley, 3936 Vale Ave., Oakland.
Architect—Not Given \$5,000

DWELLING
(672) N FIFTY-SIXTH ST. 170 E Shattuck Ave., OAKLAND. One-story 5-room dwelling.
Owner—Edward Larmer, 90 Fairview Ave., Oakland. \$4500
Architect—Not Given.

RESIDENCE
(673) NO 3020 BATEMAN ST., BERKELEY. Two-story 4-room 1-family frame residence and garage.
Owner—T. C. Seabury, 3021 Regent Ave., Berkeley.
Plans by R. O. Brown, 2321 Le Conte
Contractor—R. O. Brown, 2321 Le Conte Ave., Berkeley. \$2000

DWELLING
(674) W SUNSET ST. 65 S Lynde St., OAKLAND; 1-story 4-room dwelling.
Owner and Builder—M. J. Schmidt, 1606 85th Ave., Oakland.
Architect—Not Given. \$1800

DWELLING
(675) 5912 BUENA VISTA AVENUE, OAKLAND; 2-story 6-room dwelling.
Owner and Builder—Morgensen Bros., 5664 Broadway, Oakland.
Architect—Not Given. \$6000

DWELLING
(676) W RUBY ST. 366 N 38th St.; OAKLAND; 1-story 5-room dwelling.
Owner & Builder—R. C. McBride, 4127 Broadway, Oakland.
Architect—Not Given. \$3000

ADDITION
(677) NO. 1442 CAROLINE ST., ALAMEDA. Addition to building permits No. 97 and 98 issued March 1, 1929.
Owner—A. Roberts, 2100 Santa Clara Ave., Alameda.
Architect—Not Given. \$1500

ADDITION
(678) NO. 1440 CAROLINE ST., ALAMEDA. Addition to building permit No. 99 issued March 1, 1929.
Owner—A. Roberts, 2100 Santa Clara Ave., Alameda.
Architect—Not Given. \$1000

ADDITION
(679) NO. 1444 CAROLINE ST., ALAMEDA. Addition to building permit No. 96 issue March 1, 1929.
Owner—A. Roberts, 2100 Santa Clara Ave., Alameda.
Architect—Not Given. \$1370

DWELLING
(680) NO. 975 PEARL ST. ALAMEDA Two-story 6-room frame and stucco dwelling.
Owner—L. O. Annett, 2622 Calhoun St., Alameda.

Plans by N. F. Justice, 973 Pearl St., Alameda.
Contractor—N. F. Justice, 973 Pearl St., Alameda. \$4850

DWELLING
(681) 1521 TRESTLE GLEN ROAD, OAKLAND; one-story five-room dwelling.
Owner—M. Fitzgerald, 1684 57th St., Oakland.
Architect—Williams and Wastell, 374 17th Street.
Contractor—F. A. Fertz, 364 41st St. \$3900

ALTERATIONS
(682) NW COR. 46th AVE. and E 14th St., OAKLAND; alterations.
Owner—Capitol Co., 625 Market Street, San Francisco.
Architect—H. A. Minton, 625 Market St., San Francisco.
Contractor—David Nordstrom, 354 Hobart St., Oakland. \$8000

DWELLING
(683) S MELDON AVE 40 E Storer Ave., OAKLAND; two-story six-room dwelling.
Owner—M. E. Lerch, Seattle.
Architect—Not Given.
Contractor—L. G. Matheyer, 3178 Birdsall Ave., Oakland. \$4000

ALTERATIONS
(684) NO. 5737 MORAGA ROAD, OAKLAND. Alterations and additions.
Owner—Glen Johnson, 12th and Broadway, Oakland.
Architect—Not Given.
Contractor—C. M. MacGregor, 470 13th St., Oakland. \$1500

DWELLING
(685) W CROWN AVE 100 N Merrick Road Drive, OAKLAND. One-story 5-room dwelling.
Owner—H. R. Flaharty, 6207 Crown Ave., Oakland.
Architect—Not Given.
Contractor—Warn Bros., 519 E. Merle Court, San Leandro. \$3250

DWELLING
(686) NO. 3171 SHEFFIELD ST., OAKLAND. One-story 6-room dwelling.
Owner—Mr. Parish.
Architect—Not Given.
Contractor—A. H. Menez, 1700 Liebert Blvd., Oakland. \$4000

DWELLING
(687) 2913 BROOKDALE AVE., OAKLAND; one-story 5-room dwelling.
Owner—Mrs. E. C. Bostwich, 2913 Brookdale Ave., Oakland.
Architect—Not Given.
Contractor—F. Rinkert, 3628 Porter St. Oakland. \$2400

DWELLING
(688) 6943 LACEY ST. AND OAKLAND; one-story 5-room dwelling.
Owner—Marie I. Pickett, 3922 Redding St., Oakland.
Architect—Not Given.
Contractor—W. E. Pickett, 3922 Redding St., Oakland. \$3000

DWELLING
(689) N BROMLEY AVE. 175 W 62nd Ave., OAKLAND; one-story five-room dwelling.
Owner—Nick Valerga, 6128 Bromley Ave., Oakland.
Architect—Not Given.
Contractor—O. W. Johnson, 3961 Margee Ave., Oakland. \$2000

DWELLING
(690) 3483 DAVIS ST., OAKLAND; one-story 6-room dwelling.
Owner & Builder—John Fleming, 4261 Suter St., Oakland.
Architect—Not Given. \$3960

DWELLING
(691) 31 BROOKSIDE DRIVE BERK. ELEY; one-story frame and stucco 5 room residence.
Owner—Whalen and Hufschmidt, 407 Federal Bldg., Oakland.
Plans by W. W. Dixon, 1844 5th Ave., Oakland.
Contractor—A. M. Williamson, 3761 Alameda Ave., Oakland. \$5000

BUILDING CONTRACTS

ALAMEDA COUNTY

No. Owner	Contractor	Amt.
94 Armes	Lyons	20685
96 Alameda	Mittry	112157

STORE & MARKET
(94) SW SOLANO and Fresno Aves., Berkeley; general construction on one-story brick store and market bldg.
Owner—F. Armes, Berkeley.
Architect—P. L. Dragon and E. R. Schmidts, Mercantile Bank Bldg., Berkeley.
Contractor—W. E. Lyons, 354 Hobart St., Oakland.
Filed June 4, '31. Dated May 19, '31.
When brick work is up.....\$4127
When roofing is on.....4137
When plastered.....4137
When completed.....4137
Usual 35 days.....4137

Limit, 75 days. Plans and Spec. filed.

THEATRE & STORE
(96) CENTRAL AVE. West of Park St., Alameda; general construction to Theatre and Store building.
Owner—Alameda Amusement Co., 25 Taylor St., San Francisco.
Architect—J. R. Miller & T. L. Pfeu-ger, 580 Market St., San Francisco.
Contractor—Metz Bros. Const. Co., Inc., 412 W 6th St., Los Angeles.
Filed June 9, '31. Dated June 1, '31.
Fifth of each month.....75%
Usual 35 days.....25%

TOTAL COST, \$112,157.
Bond, \$112,157. Sureties, Fidelity and Deposit Co. of Maryland. Limit, Mar. 15, 1932. Plans and Spec. filed.

COMPLETION NOTICES

ALAMEDA COUNTY

Recorded	Accepted
Oakland, J F Patterson to whom it may concern.....	June 3, 1931
June 4, 1931—52 EL CAMINO Real, Berkeley, G F Douglas to Albert Hammerberg.....	June 2, 1931
June 4, 1931—2839 25th Ave., Oakland, Isabella Fleming to John Fleming.....	June 4, 1931
June 3, 1931—NEWARK, Alameda County, Pacific Gas & Electric Co. to Jones Asbestos Supply Co.; Carl T. Dorell Co. and Alex Sommarstrom.....	May 25, 1931
June 2, 1931—LOTS 8 AND 9 BLK O, Fruitvale Blvd Tract, Oakland, William and Harriet C West to C W Leekins.....	May 25, 1931
June 2, 1931—FTN LOTS 99 AND 100 68th Avenue Acres, Oakland, K A Johanson to whom it may concern.....	May 18, 1931
June 2, 1931—NO. 1623-1624 ARCH ST., Berkeley, Milton S Bonds to whom it may concern.....	June 1, 1931
June 2, 1931—E E HAWTHORNE & Telegraph Ave., Oakland, G J W Stark to L W McWethy.....	May 25, 1931
June 6, 1931—E FOUNTAIN 185 ft N of Santa Clara Ave, Alameda, Oscar A and Catherine L Mellin to Percy Spaulding.....	June 1, 1931
June 6, 1931—CLAREMONT County Club Grounds, Oakland, Edw C Campbell to Edw F Henderson.....	June 1, 1931

June 5, 1931—221 BROOKSIDE Ave., Oakland. Sam Steindel to Self..... June 2, 1931
 June 5, 1931—SW SYLVAN AVE 160 ft SE of Maple Ave, Oakland, A E and Bertha Sater to whom it may concern..... June 4, 1931
 June 5, 1931—PTN LOTS 263 and 265 Terminal Junction Tract, Albany. Donald B Adams to Self..... June 1, 1931
 June 5, 1931—PTN LOTS 42 and 43 Blk 2, Fourth Ave Heights, Oakland. Everett D Howe to whom it may concern..... June 4, 1931
 June 4, 1931—3439 PIERSON ST, Oakland. Aug Roseberg to whom it may concern..... June 3, 1931
 June 4, 1931—3516 MORCOM Street, June 9, 1931—LOT 185 Unit No. 2, Avenue Terrace, Oakland. Thomas E and Mable A Wells to whom it may concern..... June 8, 1931
 June 3, 1931—870 E OF N 100 FT. of Blk B R R Park No. 4, Albany. A to W J Kraus..... June 6, 1931
 June 9, 1931—530 SANTA CLARA Ave., Alameda. J M Kinley to whom it may concern..... June 9, 1931
 June 8, 1931—LOT 17, Mandana Park, Oakland. Empire Bldg. Co. Ltd to whom it may concern..... June 8, 1931
 June 8, 1931—4291 MONTEREY Blvd, Oakland. A Fleming to whom it may concern..... June 8, 1931

LIENS FILED

ALAMEDA COUNTY

Recorded Amount
 June 9, 1931—LOT 39 BLK A, Claremont Pines, Oakland. P Kcoyman vs J M Olson and Anna K Olson.....\$255
 June 8, 1931—NW TRESTLE GLEN and Kingsley Place and 1720 Trestle Glen Ave., Oakland. Morgan Electric Co, Ltd vs E R Jervis.....\$144.01
 June 8, 1931—5591 COUNTRY CLUB Drive, Oakland. Geo S Pittock & Son, Ltd vs J M and Anna K Olsen, Claremont Pines Corp.....\$185
 June 8, 1931—5591 COUNTRY CLUB Drive, Oakland. Morgan Electric, Ltd vs J M and Anna K Olsen and Claremont Pines Corp.....\$316.39
 June 8, 1931—LOT 9 BLK A, Claremont Pines, Oakland. Wallace E Scott vs J M and Anna K Olsen.....\$99.20
 June 6, 1931—LOT 39 BLK A, Claremont Pines, Oakland. Maxwell Hardware Co vs J M and Anna K Olson.....\$634
 June 6, 1931—LOT 29 BLK A, Claremont Pines, Oakland. Clinton Mill & Lumber Co vs J M and Anna K Olson.....\$1070.85
 June 3, 1931—NO. 6080 MARGARIDO Drive, Oakland. Chas C Riggle vs Ellen Williams and Jessie H MacMahon.....145

RELEASE OF LIENS

Alameda County

Recorded Amount
 June 3, 1931—LOT 23 BLK 2, Grand Ave Terrace, Berkeley. Thomas E Scanlon and Fred L Weems to Lincoln Mortgage Company.....\$237

BUILDING CONTRACTS

SAN MATEO COUNTY

ADDITION
 LOT 1 BLK 2, Atherton. All work for additions and alterations to building.
 Owner—A. L. DeLuca, Atherton.
 Architect—J. Chester Dolphin, Jefferson and Vista Drive, Redwood City.
 Contractor—Stanley W. Schaller, Atherton.

Filed June 1, '31. Dated May 31, '31.
 Roof on \$500
 Plastered 500
 When completed 500
 Usual 35 days 500
 TOTAL COST, \$2000
 Bond, \$2000. Surety, Independence Indemnity Co Limit, 40 working days. Forfeit, \$10. Plans and specifications filed.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded Accepted
 June 1, 1931—BAY SHORE HIGHWAY, San Mateo to Redwood. State of California Highway Commission to Fredrickson & Watson Constr Co and Fredrickson Bros May 25, 1931
 June 1, 1931—LOT 4 BLK 44, Easton Peter N Lubchenko to Boyd C Lindsay May 29, 1931
 June 1, 1931—LOT 7 BLK 27, Milbrae Highlands, San Mateo. A Pearson to whom it may concern June 1, 1931
 June 1, 1931—LOT 17, Lexington Park. H W Hougham et al to whom it may concern..... June 1, 1931
 June 3, 1931—LOT 3 BLK 20, Schwab Addition, San Mateo. John A Sheppard to whom it may concern May 27, 1931
 June 3, 1931—LOT 7 BLK 11, Burlingame. Newell F Sterns et al to whom it may concern May 22, 1931
 June 3, 1931—LOT 7, San Mateo City Homestead, San Mateo. George W Mibeck to whom it may concern..... June 3, 1931
 June 3, 1931—PART LOTS 6 AND 7 Sub A, Wellesley Park. Union Oil Co to Wm C Keating May 30, 1931
 June 4, 1931—LOT 5 BLK 2 Studio Tract, San Mateo. George Kamian et al to Bert Norberg..... June 1, 1931
 June 4, 1931—LOT 9 BLK 2, Stanford Park, San Mateo. Arnold Mangold to whom it may concern June 1 1931
 June 5, 1931—LOT 16 BLK 21, Eagle Hill Addition. John A. Crawford to whom it may concern..... June 4, 1931
 June 5, 1931—LOT 35 BLK R, Fay's Redwood Gardens. Edwin S Rosette to whom it may concern..... June 4, 1931
 June 6, 1931—LOT 7 BLK 4, Crocker Estate Tract, San Mateo. Henry Shapiro to whom it may concern June 6, 1931
 June 6, 1931—LOT 18 BLK 29, Redwood Highlands. R L O'Connor et al to whom it may concern..... June 3, 1931
 June 6, 1931—PART LOTS 3 AND 4 Blk 7, Nash Tract, San Mateo. A G Frykman et al to whom it may concern..... June 6, 1931
 June 6, 1931—LOT 4 BLK 27, Milbrae Highlands. Niels Schultz to Schultz Constr Co..... June 4, 1931
 June 6, 1931—LOTS 2 AND 3 BLK 3, Milbrae Highlands. John Conradetti to Acma Constr Co..... June 3, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded Amount
 June 2, 1931—LOT 12 BLK A, Fay's Redwood Garden. John Rolla Atlas vs George J Lehman..... \$36.25
 June 4, 1931—LOTS 9 AND 10 BLK 5, San Bruno. C E Reinhart & Co, \$182.31; P Hale, \$500; Lloyd J Walsley, \$91.29; Fudd-o-Lumber Co, \$267.49 vs F E Sutherland et al June 5, 1931—LOT 4 BLK 5, Wood-acre Knolls. Donald B Sevier et al vs William A Baxter-Gould et al \$150.37
 June 5, 1931—LOTS 9 AND 10 BLK 5, San Bruno Park. F Chianelli vs W R Witt et al \$71
 June 6, 1931—LOT 17 BLK 10, Central Park. Sequoia Lumber Co vs John Manning \$386.55

BUILDING PERMITS

SAN JOSE

ALTER type 111 business building, \$8900; No. 139-124 S-First St., San Jose; owner, Zukor's Inc., San Francisco; architect, M. Jones, San Francisco; contractor, H. A. Bridges, 1396 Lincoln St., San Jose
 ALTER type V warehouse, 1066; Pleasant and S. P. right-of-way, San Jose; owner, Guggenheim Co., 261 W-Julian St., San Jose.
 RESIDENCE, frame, 5-room, \$4500. Shasta St. near Park, San Jose; owner, Geo. Chittenden, 260 Meridian St., San Jose; contractor, Carl Maurer, 241 Locust St., San Jose
 RESIDENCE, frame, 5-room, \$4000; Newhall St. near Morse, San Jose; owner and contractor, Benj. Quimet, 655 Riverside St., San Jose.

BUILDING PERMITS

BURLINGAME

STORES, \$5600; S Broadway 55-6 W Laguna St., Burlingame; owner, Stelling & Gould, 155 Montgomery St., San Francisco; contractor, G. P. W. Jensen, 320 Market St., San Francisco.
 ALTER store, \$2862; No. 1260 Burlingame Ave., Burlingame; owner, Stelling & Gould, 155 Montgomery St., San Francisco; contractor, Clinton - Stephenson Constr. Co., 88 3rd Ave., San Mateo.
 ALTERATIONS, \$3000; No. 1272 Cabrillo Ave., Burlingame; owner, L. W. Mix, 1272 Cabrillo Ave., Burlingame; contractor, J. B. Oswald, 760 El Cerrito Ave., San Mateo.
 RESIDENCE, \$9500; Part Lot 1 Blk 10, E. P. 2, Chapin St., Burlingame; owner, D. Simpson, 1525 Ralston Ave., Burlingame; contractor, G. W. Williams Co., Crawford Bldg., Burlingame.

Member Insurance Brokers' Exchange

FRED H. BOGGS
INSURANCE
 490 GEARY STREET

Phone FRanklin 9400

San Francisco

BUILDING PERMITS

PALO ALTO

RESIDENCE, stucco, \$6000; No. 2991 Cowper St., Palo Alto; owner, O. K. Hink, 960 Cowper St., Palo Alto; contractor, W. E. Good-enough 310 University Ave., Palo Alto.

ALTER store, \$5300; No. 171-177 University Ave., Palo Alto; owner, M. A. Harris; contractor, H. B. Post, 1330 Webster St., Palo Alto.

RESIDENCE, stucco, \$6000; No. 345 Escobita Ave., Palo Alto; owner, Ronald Jervis.

RESIDENCE, stucco, \$4000; No. 1013 Fulton St., Palo Alto; owner, Niolo Okerman; contractor, Oro & Okerman.

BUILDING CONTRACTS

SANTA CLARA COUNTY

RESIDENCE
No. 545 WASHINGTON St. being Lot 8 Blk 79, Palo Alto. All work for two-story residence and double garage.
Owner—Mr. and Mrs. Lee L. Yancey, 173 Waverly St., Palo Alto.
Architect—Erwin Reichel, 303 University Ave., Palo Alto.
Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.
Filed May 27, '31. Dated May 25, '31.
On 1st day of each month.
TOTAL COST not to exceed \$7915
Bond, limit, forfeit, none. Plans and specifications filed.

BUILDING PERMITS

REDWOOD CITY

DWELLING, frame, 5-room, bath and garage, \$3000; No. 334 Iris St., Redwood City; owner and contractor, E. Strandquist, 229 Iris St., Redwood City.

DWELLING, frame, 5-room, bath and garage, \$5000; No. 342 Iris St., Redwood City; owner and contractor, E. Strandquist, 229 Iris St., Redwood City.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted
May 29, 1931—LOT 15 BLK 7, Los Altos Park. Virginia M Spinks to whom it may concern. May 27, 1931

May 29, 1931—LOT 15 BLK 1, Hevrin Subd., San Jose. E Parker Hays to whom it may concern. May 28, 1931

MAY 29, 1931—NE LOCUST 188 NW Reed St., San Jose. John Allegretti et al to whom it may concern. May 29, 1931

May 29, 1931—LOT 16 Willow Res-dence Tract, San Jose. Alfard H Wilson et al to whom it may concern. May 29, 1931

May 29, 1931—LOT 18 BLK 1, North Glen Residence Park, San Jose. Leon E Dampier to whom it may concern. May 29, 1931

June 1, 1931—LOT 16 BLK B, Lion Rancho Addition J Jensen et al to whom it may concern. May 29, 1931

June 1, 1931—LOT 3 BLK 2, Hevrin Subd., San Jose. M V Hevrin to whom it may concern. June 1, 1931

June 2, 1931—LOT 41, Sawyer Subd. No. 2, San Jose. Frederick W and Mary Loewen to B H Painter. June 2, 1931

June 2, 1931—LOT 22 BLK 6, Seale Addition No. 2, Palo Alto. T P Fover to whom it may concern. June 2, 1931

June 4, 1931—LOT 7 BLK 5, Claremont Subd., San Jose. Gordon S

Hoffman et al to whom it may concern. June 3, 1931

June 4, 1931—PART LOT 10 BLK 2, Hanchett Residence Park, San Jose. Lillian Q Raven to whom it may concern. June 4, 1931

June 4, 1931—LOT 34, Adams & Keller Tract, San Jose. L C Rossi to whom it may concern. June 3, 1931

June 5, 1931—W NINETEENTH ST. 187 1/2 SW James St., San Jose. L S Pashin to whom it may concern. June 5, 1931

June 5, 1931—LOT 22 BLK 1, Conkling and Cole Subd., San Jose. Homer D Bayles to whom it may concern. June 5, 1931

June 5, 1931—LOT 50, North Sub. Los Gatos. Michael Adlegio to whom it may concern. June 4, 1931

June 5, 1931—SE ASHBURY ST. 100 ft. SW Myrtle St., San Jose. Gene Palaschi to whom it may concern. June 5, 1931

June 5, 1931—LOT 5, Alhambra North Glen Residence Park, San Jose. Owner and Contractor omitted. June 5, 1931

June 5, 1931—LOT 7, Cherry Court, San Jose. Ida E Morrison to whom it may concern. June 5, 1931

June 5, 1931—8 MARKET ST. bet. 15th and 16th Sts., San Jose. Charles Gladding to whom it may concern. June 3, 1931

June 5, 1931—LOT 58, Angelo Tract, Mt View. William McCall to whom it may concern. June 2, 1931

June 6, 1931—LOT 2, Coleman Yag-ner Tract, San Jose. J C Tabler et al to whom it may concern. June 5, 1931

June 6, 1931—SW CORNELL 255 SE College Ave SE 40xSW 125, Palo Alto. C B Van Epps to whom it may concern. June 5, 1931

June 6, 1931—LOT 7 BLK 2, Seale Tract No. 5, Palo Alto. Nels and Anna Johanson to whom it may concern. June 4, 1931

June 6, 1931—MIDDLE 1/4 OF LOT 2 Blk 4 R 3 S, Bailey Addn to Mt View. M Estelle Holden to whom it may concern. June 2, 1931

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
June 2, 1931—PART LOT 1, P. G. Keith Subd by S line Hamilton Ave 376.835 ft. E line of Santa Clara and Los Gatos Road E 60x 300 feet to pt. of beg. G H Deurell vs Arthur N De Selle. \$29.50

June 3, 1931—LOT 18 BLK A, Easter Gables No. 1, Merner Lumber Co vs Ted Galiks et al. \$118.59

June 3, 1931—LOT 17 BLK A, Easter Gables No. 1, Merner Lumber Co vs Mary A Fraser. \$118.59

June 3, 1931—LOT 16 BLK A, Easter Gables No. 1, Merner Lumber Co vs Harold Jennings. \$118.59

June 3, 1931—LOT 15 BLK A, Easter Gables No. 1, Merner Lumber Co vs William L Ferguson. \$118.59

June 3, 1931—LOT 14 BLK A, Easter Gables No. 1, Merner Lumber Co vs Fell. \$118.59

June 3, 1931—LOT 3 BLK C, Easter Gables No. 1, Merner Lumber Co vs John S Eowman et al. \$118.59

June 3, 1931—LOT 2 BLK C, Easter Gables No. 1, Merner Lumber Co vs Sylvester B Powers. \$118.59

June 4, 1931—LOT 25, Rosedale. George O Thomas vs Edward Faltersack. \$74

June 4, 1931—PT LOT 1, P. G. Keith Subd. No. 1, San Jose. C H Whitman vs Arthur N De Selle. \$48.54

June 4, 1931—LOTS 18 AND 19 BLK 4, Vendome Park No. 2, San Jose. C Cray et al. \$245.97

June 6, 1931—BEG. PRESENT S line Hamilton Ave 376.835 ft. E

present East Santa Clara and Los Gatos Road. Central Supply Co. \$105.28; James S Simpson, \$94.25; Vincent Mascarella et al, \$151.47; Garden City Glass Co, \$230.22 vs Arthur N De Selle.

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
June 1, 1931—ALL LOT 30, Glen Una No. 2, with exception, Cham-berrin Metal Weatherstrip Co. N Bradford. \$

BUILDING CONTRACTS

MONTEREY COUNTY

ADDITION
CASTROVILLE UNION GRAMMAR School District. All work for ad-dition to school.
Owner—Castroville Union Gram-mor School District, Castroville.
Architect—W. H. Weeks, 525 Market St., San Francisco.
Contractor—Wm. M. Myer, Cupertino. As work progresses. 75%
Filed June 8, '31. Dated June 2, '31. TOTAL COST, \$18,810
Bond, \$9495. Surety, American Surety Co. of New York. Limit, 70 days. Forfeit, none. Plans and specifica-tions filed.

DOCK
FISHERMAN'S WHARF, Monterey. All work for new dock for Mont-erey Marin Service Station #223. (Owner—Union Oil Co., San Francisco Architect—Not Given.
Contractor—Ben C. Gerwick, Inc., Ben C. Gerwick, President, 112 Market St., San Francisco.
Filed June 1, '31. Dated April 17, '31. As work progresses. TOTAL COST, \$4041
Bond, \$2500. Surety, United States Fidelity & Guaranty Co. Limit, for-feit, none. Plans and specifications filed.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded Accepted
June 5, 1931—LOT 20, Maple Park Addition No. 1, Monterey. Roland and Isabel Tavernetti to J Frank Laughton. June 4, 1931

June 5, 1931—S 82 1/2 FT. LOT 1 BLK 1, 5th Addn to Pacific Groves. Albert L Pawley also as A L Pawley to whom it may concern. June 2, 1931

June 6, 1931—LOT 6 BLK 1, Phyllis G Spiegel Addn to Salinas. Phyllis G Spiegel to F C Carlson. June 4, 1931

June 8, 1931—LOT 17, Sunset Addition, Monterey. Bernice M and Everett Charles Farmer to Fred Reutter. June 8, 1931

June 8, 1931—LOT Z BLK 19, Sherwood & Hellman's Map. Matthew C McElhernan to whom it may concern. June 8, 1931

June 8, 1931—LOT 5 BLK D, City of Carmel-by-the-Sea. M J and E O Murphy to M J Murphy, Inc. May 31, 1931

June 3, 1931—N 10 FT. LOT 18, all Lot 11 and 8 1/2 ft. Lot 10 Elk Grove. Map of Pacific Grove Retreat. M J Murphy, Inc to M J Murphy, Inc. June 1, 1931

LIENS FILED

MONTEREY COUNTY

Recorded Amount
June 3, 1931—SUBD G & H of a part of LOT 2 on S Castroville St.

now called Market St., Sherwood Map, Sallinas City. Anderson-Dougherty-Hargis vs Asa Iwashige and Fred McCrary \$767
 June 4, 1931—SUBDS G & H of part of Lot 2 S Castroville St. now called Market St., Sherwood Map of Sallinas City. Tynan Lumber Co vs A Iwashige and Fred McCrary \$2431.47

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 May 25, 1931—LOTS 6 AND 7 BLK 8, Nystrom's Addn to Point Richmond. Thomas and Carl Atalic to whom it may concern. May 22, 1931
 May 25, 1931—1TN LOT A, Kensington Park. Charlotte Kinney to E G Foster. May 21, 1931
 May 26, 1931—LOT 14 BLK 237, Central Addition to Pittsburg. Nelson Clark Alvord and Anna Louise Alvord to C M Norgrove. May 23, 1931
 May 27, 1931—LOT 94 Unit No. 3, La Salle Heights Addition, Richmond. Peter L. Lyhne to whom it may concern. May 27, 1931
 May 29, 1931—LOTS 45 AND 46 BLK 33, Nicholl Macdonald Avenue Civic Center, Richmond. Barbara Ziegler to Peppin & Johnson. May 29, 1931
 June 2, 1931—DANVILLE. Harold Boone Root to whom it may concern. June 2, 1931
 June 5, 1931—LOTS 11 and 12, Shell City Tract. J W Madison to whom it may concern. June 4, 1931
 June 6, 1931—LOTS 24 and 25 BLK 1, Shuey Ave, Walnut Creek. Edw J and Blanche D Silveira to Peppin & Johnson. June 3, 1931
 June 6, 1931—LOTS 37 and 33 BLK 67, Richmond Annex. Geo Weidemann to whom it may concern. June 3, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 May 28, 1931—LOT 3 AND W 1/4 LOT 4 Blk 4, Richmond City Center. General Mill & Lumber Co vs M L Mattice and M P Graves. \$166.96
 May 28, 1931—LOTS 2 AND 3 BLK F, Sub of Ptn of Lot 137, San Pablo Rancho. Henry E Feldman vs Tony Braga and Valine & Lawrence. \$112
 May 29, 1931—LOTS 2 AND 3 BLK F, Sub. of Portion Lot 137, San Pablo Rancho. Superior Tile & Products Co vs Antone J Braga and Valine & Lawrence. \$148
 June 8, 1931—LOT 3 AND W 1/4 LOT 4 Blk 5, Richmond City Center. R E Wells vs M L Mattice and M Graves. \$110
 June 5, 1931—LOT 3 and W half lot 4 Blk 5, Richmond City Center. Maxwell Hdwe Co vs M P Graves, M L Mattice. \$82.14
 June 3, 1931—LOTS 8 and 9 BLK 10, Pringle Addn to Walnut Creek. John Reine vs Arthur Sims. \$187.50
 July 5, 1931—LOTS 8 and 9 BLK 10, Pringle Addn to Walnut Creek. Boorman Lumber Co vs A E and A A Sims. \$217.93

RELEASE OF LIENS

CONTRA COSTA COUNTY

Recorded Amount
 June 4, 1931—LOT 15, North Richmond. Marcus & Merrick, Ltd; Superior Tile & Products Co to Rome and Ella M Locke and Geo J Gordon. \$1000
 June 4, 1931—LOT 15, North Richmond. R A Washburn; Richmond

Lumber Co; L G Slusser, to Rome and Ella M Locke. \$1000
 June 3, 1931—LOT 31 and half lot 32 Blk 35, North Berkeley Terrace. A M Hite; Contra Costa Building Material Co; L H Miltz; Superior Tile & Products Co; McDonald's Electric Shop; Carlstrom Brog & Person; General Mill & Lumber Co to Henry Fred Block. \$1000
 June 3, 1931—LOT 31 and half lot 32 Blk 35, North Berkeley Terrace. Berkeley Building Materials Co to Henry Fred Block, A M Hite. \$1000

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
 June 2, 1931—SAN ANSELMO. Frederick G Glassford and wife to Ellis L Wilson. May 23, 1931
 June 3, 1931—SAN RAFAEL. Thos I Sneed to whom it may concern. May 10, 1931

LIENS FILED

MARIN COUNTY

Recorded Amount
 June 1, 1931—FAIRFAX. Leonard E Yenke vs Angelina Simonini et al and H F Martin. \$73.50

ABANDONMENT OF COMPLETION

MARIN COUNTY

June 3, 1931—MILL VALLEY. Walter E Boland to whom it may concern, abandoned. May 3, 1931

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 May 27, 1931—LOT 3 BLK A, Monte Rosa Subd. Wm F Enright to B Oridway. May 26, 1931
 June 1, 1931—LOT 3 BLK 4, Proctor Terrace, Santa Rosa. Robert B Hathaway to Mutual Home Builders Assn. May 29, 1931
 June 4, 1931—LOT 6 BLK 4, Proctor Terrace, Santa Rosa. A B Noonan to Mutual Home Builders Assn. May 28, 1931

LIENS FILED

SONOMA COUNTY

Recorded Amount
 May 29, 1931—70x150 FT. BLK 25, McDonald's Addition to Santa Rosa. Robert J Whiting vs W T and Elizabeth Owen. \$77.50

RELEASE OF LIENS

SONOMA COUNTY

Recorded Amount
 June 2, 1931—HIGHLAND ROAD in Sec. 27 T 7 North R 10 W. Arthur C Davis to Prentice and Cora Childers. \$1000

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded Accepted
 June 6, 1931—LOT 14 and W 1/2 Lot 15 Blk 2, Pacific Manor. G A and Ellen M Werner to S C Gilles. June 2, 1931
 June 6, 1931—LOT 8 BLK 7, City Park Terrace, Stockton. Eleanor Waugh Morris to F Paul Dobson. June 3, 1931

BUILDING PERMITS

MARTINEZ

BUNGALOW, stucco, 4-room, \$3500; Brown and Richardson. A. Martinez; owner Mrs. B. Koch, Martinez; designer, J. Fenell; contractor, J. W. Fenell, Martinez.
 HOUSE, stucco, 6-room, \$4500; Grand View Ave. Block 2. Martinez; owner and contractor, J. W. Madison, Donald Ave., Martinez.

BUILDING PERMITS

SACRAMENTO

HOUSE and garage, \$5000; No. 1132 Perkins Way, Sacramento; owner and builder, N. Lund, 2549 6th Ave., Sacramento.
 HOUSE and garage, \$5500; No. 4722 H St., Sacramento; owner, F. Douglass, 1572 49th St., Fresno; contractor, O. M. Froiling, 1625 40th St., Fresno
 HOUSE and garage, \$1500; 1324 W St.; owner and builder, P. Jenke, 1324 W St., Sacramento.
 HOUSE and garage, \$3600; 1545 48th St.; owner and builder, H. D. Hoger, 1529 48th St.
 HOUSE, \$3500; No. 1500 Burnett Way, Sacramento; owner and builder, Church of God, 123 1/2 S St., Sacramento.
 HOUSE and garage, \$5500; No. 422 H St., Sacramento; owner, F. Douglas, 1108 25th St., Sacramento; contractor, O. Froiling, Sacramento.
 BUILDING, brick, \$5335; No. 3416 Stockton Blvd., Sacramento; owner, J. Atkins, 1552 34th St., Sacramento; contractor, J. Saunders, 1045 45th St., Sacramento.
 HOUSE and garage, \$5800; No. 1124 Swanston Drive, Sacramento; owner, McClatchy Co, 509 J St., Sacramento; contractor, W. B. Phillips, 2101 9th Ave., Sacramento
 GENERAL repairs, \$3000; No. 814 K St., Sacramento; owner, Sturmer Bros., Sacramento; contractor, Lindgren & Swinerton, Inc., California State Life Bldg., Sacramento.

LIENS FILED

SACRAMENTO COUNTY

Recorded Amount
 June 4, 1931—E 100 FT OF W 150 ft. of N 1/2 and E 150 ft. of N 100 ft. Lot 2 Blk 27, North Sacramento Subd 8. R O Mapes and A B Atkinson (as Mapes Lisbee Co) vs Carl M and Eldreida Eisbee. \$64.21

BUILDING CONTRACTS

FRESNO COUNTY

PIPE LINE
 KETTLEMAN HILLS. Certain pipe line.
 Owner—Kettleman North Dome Association.
 Architect—Not Given
 Contractor—Virginia Pipe Line Constructing Co.
 Filed June 4, '31. Dated May 9, '31.
 As work progresses..... 75%
 Usual 35 days..... balance
 TOTAL COST, Various prices per lineal foot.
 Bond, \$10,000. Surety, American Surety Co., Limit 12 days. Forfeit, plans and specifications, none.

BUILDING PERMITS

FRESNO

STATION, service, \$1000; No. 2360 Railroad Ave., Fresno; owner, E. Schmitz, T. W. Fatterson Bldg.,

Fresno; contractor, C. J. McIntyre, 774 Elizabeth St., Fresno.
 DWELLING and garage, \$6850; No. 3946 Huntington Blvd., Fresno; owner, Dan Chamberlin, 1213 Broadway, Fresno.
 Harry P. Nelson, 822 S-Fifth St., Fresno.
 DWELLING and garage, \$4000; 1021 Poplar Ave.; owner and builder, Carl Gustafson, premises.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 June 3, 1931—LOT 2 BLK 27, Alta Vista Tract, Fresno. A B Lauffer to whom it may concern.....
 June 3, 1931—LOT 16 BLK 22, Alta Vista Terrace, Fresno. Lauridsen Lambert to A M Dame.....Mar. 14, '31
 June 5, 1931—LOT D BLK 8, Alta Vista Terrace, Fresno. Doris M Lathy to A F Lambert.....June 1, 1931
 June 6, 1931—LOT 19 BLK 26, Alta Vista Terrace, Fresno. W T Harris and W D Oliver to R E Harris.....June 5, 1931
 June 6, 1931—PART LOT 38, Bloomington Park Terrace, Fresno. C W Westfall to whom it may concern.....June 1, 1931

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1684).

R-3559-S SALES ENGINEER, to sell sprinkler systems for outside and inside irrigation. Straight commission. Opportunity for right man. Location, San Francisco.

R-3544-S GRADUATE ENGINEER, age 44, with California registration and electrical engineering experience desires to connect with an established engineering firm in the capacity of partner. Has some capital to invest where hard work and application will pay dividends. Address communications in care of this office.

W-2462-S (K-364) CHEMICAL ENGINEER, under 40, having had thorough training in chemical engineering in general and with a record of successful practical experience in the paper-making industry. Apply only by letter. Location, New England.

R-3575-S ASSOCIATE or Full Professor of Mechanical Engineering, to carry on research work in agricultural engineering. Would not be required to do any teaching. Should be 35 to 40 years of age, exceptionally well qualified in mathematics and physics and preferably with an advanced degree in engineering. Apply by letter with full details of training and experience and photograph. Salary \$3600-4800 per year. Permanent. Location, West.

W-2427-S CHEMICAL ENGINEER with experience in responsible charge of design, construction and operation. Should be comparatively young with good personality and record of success. Salary open. Apply only by letter. Location, East.

W-2462-S JUNIOR PAPER TECHNOLOGIST for research laboratory. Must be qualified by practical experience to operate semi-commercial pulp and paper making equipment on a wide variety of products and assist in preparation of engineering reports on technical and economic aspects of such work. Must have good personality and initiative. Apply only by letter giving refer-

ences as to character and ability, as well as statement of training, experience and salary requirements and preferably a recent photograph. Location, New England.
 W-2351-S ENGINEER, technical graduate, American, with good experience in rock drilling and rock excavation, preferably on heavy construction work, and also having had sales experience or having ability and personality for selling. Apply by letter. Location, East.

The Federal Trade Commission has recently undertaken an investigation of the building material industry and preliminary work is now under way. In this inquiry the Commission will investigate and report facts relating to the letting of contracts for the construction of government buildings, particularly with a view of determining whether or not there have been any price-fixing or other agreements among individuals, partnerships or corporations engaged in the production, manufacture or sale of building materials with respect to the prices or other terms at which such materials will be furnished contractors or bidders for such work.

The Guardian Building and Loan Association of Portland, Oregon, together with the Western Savings & Loan Association and the Dime & Dollar Building and Loan Association, affiliated with the Guardian Company, have been taken over by the Oregon State Corporation Commission. James Mott, commissioner, made the announcement.

Mott said an examination disclosed that the management of the Guardian Building & Loan Association had illegally abstracted funds from the association funds amounting to nearly \$300,000 and had diverted the same to the Mortgage Investment Company, its holding corporation, without any security as required by the building and loan law.

The State Railroad Commission has authorized all railroads operating out

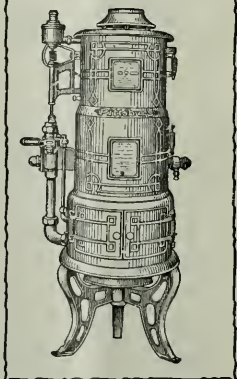
of Oakland and Alameda, including the Southern Pacific, Western Pacific, Santa Fe, and Sacramento Northern, to discontinue the commodity rates on iron and steel articles in less than carload lots to Sacramento, Stockton and intermediate points. Under the ruling, all iron and steel articles in less than carload lots will take fourth class rates.

The effect of the order, as interpreted by railroad men, is to put Oakland and San Francisco on a par in rates on these articles to the valley points. Heretofore Oakland rates of this kind have been slightly lower than those from San Francisco.

Former State Senator Edwin A. Mueller of San Diego has been appointed to the State Board of Forestry by Governor James Ralph Jr. Mueller succeeds Robert C. Harbison. Sam Bernardino, publisher, who was offered the position but was unable to accept on account of the pressure of private business. As members of the board, Mueller also becomes a member of the Governor's State Fire Emergency Committee. He was formerly a member of the joint legislative water committee that drafted the proposed \$175,000,000 co-ordinated water program for California.

The West Coast Lumbermen's Association plans a campaign to increase sales of demonstration to farmers of the economic advantages of using lumber. Otto Hartwig, trade missionary of the association, will address 15 groups of lumber dealers in Western states, covering Washington, Montana, Idaho, Wyoming, Colorado, and Arizona on methods of showing the farmer how to increase efficiency and production on the farm with the proper use of lumber.

Joseph R. and Bernice E. Schuckling, 1007 South First St., San Jose, will operate under the firm name of San Jose Window Shade Company.



A "Pittsburg" Automatic Water Heater installed in the Home indicates high quality throughout.

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Published Every Saturday
Thirty-fifth Year, No. 25

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Building and Engineering News will be sent to subscribers until ordered stopped and all orders to discontinue must be sent in writing to this office.

WATER PROBLEMS BECOME WIDESPREAD

Water problems which many persons have long been accustomed to regard as common only to arid and semi-arid sections have become widespread in consequence of deficient rainfall throughout practically every part of the United States during the last year. Observations made at a well of the U. S. Geological Survey near Washington, D. C., which are taken to be indicative of conditions in all regions affected by drought, show that there is little probability of the replenishment of underground water storage until next winter, says South-west Builder and Contractor.

On March 28 the water level in the well near Washington was 3 ft. below that for the same date a year ago. This subsidence of the underground storage has been going on very slowly but continuously since May, 1930. Between March 28 and May 16 of this year the water level had risen only 8.8 inches as compared with a rise of more than 2 ft. in the early part of 1930.

ARIZONA LUMBERMEN ELECT NEW OFFICERS

John C. Light, president of the Norman-Light Lumber Company of Miami, Ariz., was elected president of the Lumbermen's Club of Arizona, at the annual meeting held last month in Phoenix. Other officers are: Vice-president, W. F. Edens, Cottonwood Lumber Company, Cottonwood, Ariz., (re-elected); secretary, E. H. Wheat, Phoenix, Ariz., (re-elected); directors, Frank Tutt, Jerome Lumber Co., Jerome; A. F. Radschmacher, Yuma, Ariz.; W. A. Lampey, Pima Lumber Co., Tucson; R. E. Webster, Douglas Lumber Co., Douglas; L. M. Hamman, Hamman-McFarlane Lumber Co., Phoenix.

POTLATCH FOREST PRODUCTS ORGANIZED

Amalgamation into one company styled Potlatch Forest Products (Inc.) of the Clearwater Timber Co., Lewiston, Idaho, the Edward Rutledge Timber Co., Coeur d'Alene, Idaho, and the Potlatch Lumber Co., at Potlatch and Elk River, Idaho, has been completed, the American Lumberman reports.

All are Weyerhaeuser companies with plant investments. It is estimated in excess of \$10,000,000. The Clearwater company in 1927 finished at Lewiston what is probably the most modern electrical mill in the Pacific Northwest with a capacity of 200,000,000 feet annually. The other three mills are almost as large. The Potlatch mills have an annual capacity of 200,000,000 feet and the Rutledge about 100,000,000.

Philip (J. P.) Weyerhaeuser, Jr., will be president of the new company and headquarters will be at Lewiston.

CONTRACT MUST GO TO LOW BIDDER, SAYS JUDGE C. J. GOODELL

Contracts must be given to low bidders on public construction work for the City and County of San Francisco, Superior Judge C. J. Goeddell rules, even though the bidder is an out of town manufacturer.

The suit was brought by Mahony Brothers, general contractors of the new municipal warehouse at Fifteenth and Harrison Streets, against the Board of Public Works. Mahony Brothers complained that the low bidder on a sub-contract for millwork was the National Mill and Lumber Company of Oakland, but that the Board of Works refused to approve the sub-contract because the firm was not in San Francisco.

LABOR TO BATTLE WAGE REDUCTIONS

Organized labor stood more firmly entrenched in its fight against wage reductions, following an address of William Green, president of the American Federation of Labor, before an unemployment and economic conference at Rutgers University, New Brunswick, N. J., last Wednesday.

"Even though it be driven with its back to the wall, labor will not willingly accept a general reduction in wages," Green said.

"Labor will not join in the pursuit of a policy which, if applied, will intensify human distress and add to existing industrial demoralization."

Green called upon industry and government administrators to provide relief from the depression and prevent such upheavals in the future.

"Now is the time to face facts and face our responsibilities," he said.

AUSTIN COMPANY TO FINANCE LAUNDRIES

A financing service for a limited number of laundry owners contemplating a new plant or reconstruction and additions to present facilities has been announced by the Austin Co., engineers and builders, through its subsidiary, the Austin Finance Co.

The financing will be available to firms whose volume averages about \$2,500 or more a week and who have been established for at least 5 years.

"Our confidence in the future of the laundry business is indicated by this announcement," said W. J. Austin, president of the company. "At a time when financing is difficult through usual sources we believe the service will be a distinct aid to progressive laundry firms seeking modern facilities to reduce costs and improve the quality of their work. It is a significant step in view of the fact that building costs are now 20 per cent below the past ten-year average."

WAGE LAW UPHELD BY N. Y. COURT

Constitutionality of the Dunmore labor law requiring an eight-hour day and the payment of "prevailing wage rates" on grade-crossing elimination projects, enacted by the State of New York in 1930, was affirmed by the state Court of Appeals in a unanimous decision rendered June 2. The railroads had attacked the validity of the law on the grounds that it interfered with interstate commerce and that its provisions were too vague for accurate determination of wage payments. The law does not apply to railway employees, according to the court, but only to contractors' forces.

The decision states that grade separation is not, in itself, interstate commerce, and that since the railroads have elected to accept the benefits of state funds for such work, they must subject themselves to state supervision in respect to hours and wages. The contention that the law is vague is dismissed with the comment that "when reliable data has been obtained, the prevailing rate can be calculated with exactness."

UNFILED STEEL ORDERS DECREASE

Unfiled orders of the United States Steel Corporation decreased 277,277 tons in May to a total of 3,620,452 tons May 31, in April a decrease of 97,601 tons was reported.

The backlog as of April 30 was 3,897,729 tons. On March 31 unfiled orders aggregated 3,985,330 tons, against 3,965,194 tons on February 28. On May 31, 1930, unfiled orders amounted to 4,059,227 tons.

Unofficial estimates of the decrease ranged from 250,000 to 300,000 tons. A decline during May is seasonal, and in the years back to 1924 the drop for that month has averaged about 350,000 tons. In May, 1930, unfiled orders declined 294,993 tons.

The Steel Corporation's operations fell off steadily last month and new buying was down to an even larger extent. Specifications calling for deliveries on previously placed contracts kept the mills working beyond the requirements of incoming business, which is believed to be running light thus far into June because of the cautiousness of buyers.

American Standards Association, 29 West St., New York City, as issued its year book for 1931. This 102-page volume gives a full account of the membership and administration of the organization, its relations with other associations and governments, and its aims and accomplishments. In addition, a list of all projects that have an official status before the association is given.

RESIDENTIAL CONSTRUCTION AND PUBLIC WORKS, NOTABLE HIGHWAYS, CITED IN BUILDING INDUSTRY OUTLOOK

(Reprint From "Trade Winds," Published by the Union Trust Company, of Cleveland, Ohio)

At a time when the nation is searching for some particular line of business to turn the economic tide, the building industry with the potential power to stimulate activity offers bargains in prices and quality workmanship. The difficulty is that there cannot be much building without a fair degree of prosperity. Conversely, the building industry contends that there cannot be a large measure of prosperity without building activity.

Since more than half of our national wealth is represented by land and the structures erected upon it, the condition of the real estate market and the activity in the construction field indirectly affect the economic welfare of a high percentage of our population. In addition, some 4,000,000 men and women depend directly on some phase of the industry for a living.

At present, there are few economic factors receiving more consideration in the future trend of business than the construction industry. It is rare to have good or poor business cycles running counter to conditions in this industry for any long period of time. It has become a indicator of current conditions, although not always a reliable barometer of future trends.

The most favorable factors in the immediate outlook for building are the deflation of land prices and the low cost of building materials. Both are regarded at near bottom levels. Until recently, the country experienced many land booms in which property prices soared to dizzy heights under the impetus of speculative bidding. The recent demand for housing units after the war was the propelling force to land values. Development projects sprang up in every sizeable community far in excess of reasonable future requirements. Time finally brought its inevitable result to such speculation, and the bubble burst after a record building activity which not only supplied the deficiency of housing, but in many cities far exceeded the requirements. As a result, exorbitant land costs do not exist today, although real estate may have declined less than many other types of investment.

In addition to the safer land prices, the prospective home builder has available the lowest building material costs since the spring of 1917. At no time in the past 14 years have conditions been more propitious for the purchase or construction of a home. Whether or not the future will bring further declines, the fact remains that the national price indexes for April this year showed a further drop, continuing the unbroken decline that began in the fall of 1929. April figures stood at 80.7 on the basis of 100 for material costs in 1926. The figure was 82.9 at the first of the year and 82.9 for May, 1930. In some quarters, it is contended that prices in the construction field have not dropped as severely as commodities at wholesale in other lines. Other authorities believe that current prices are near bottom levels, and already menace the slender profit margins of manufacturers.

Labor that approximates 60 per cent of construction costs for many months escaped lower wage scales, but recent developments indicate labor costs are undergoing adjustment in some centers. Outwardly, however, the union scale in many cities has remained unchanged. But the builder is getting more efficient and experienced labor, plus the advantage of the latest meth-

ods and equipment, making for speed and quality workmanship.

Broadly speaking, construction work is divided into three major classifications: residential, non-residential, and public works and utility operations. The forces affecting these classifications vary widely, but in all of them a buyer's market prevails, and apparently will continue for some time to come. After all, the law of supply and demand with its many ramifications applies quite generally to the building industry.

According to the F. W. Dodge Corporation, the value of all types of construction for the first quarter of this year in 37 Eastern States totaled \$53,767,800 compared with \$1,097,147,200 for the corresponding period of 1930, a decline of approximately 24 per cent. Recent surveys indicate the outlook for the second quarter will show construction valuation of at least 20 per cent under the second quarter of 1930, with non-residential building and public works and utilities contributing the bulk of the loss.

The most encouraging aspect of these national building figures is that residential construction in the first quarter of this year showed a drop of only 4 per cent in valuation from the corresponding period of a year ago, while actual floor space constructed exceeded the first quarter of 1930 by more than 2 per cent. It appears that the decline in residential construction may be definitely arrested. However, the outlook for the non-residential and public works fields is less encouraging. The former showed a 41 per cent loss and the latter a 16 per cent decline compared to a year ago.

For April of this year, the Dodge reports for 37 States revealed total construction valuation was \$336,925,200, compared to \$482,876,700 in April, 1930, and \$369,981,300 for March of this year.

Political, economic and social forces are tending to disturb the course of events heretofore regarded normal in the building industry. Out of the conditions created, it is only possible to point out some of the influences, and speculate on future trends. Owners of real estate, homes and buildings have seen market prices of their holdings depreciate in the past two years, wiping out paper profits. Further losses were suffered if liquidation were attempted now, and foreclosed properties at foreclosure prices are contributing to the instability of the market. In the meantime, the evermounting tax rates are partially responsible for onerous financial situations that vex governmental units find themselves.

The year 1925 witnessed the peak residential building year and real estate activity for the country generally. By 1928, when other investment lines offered more attractive immediate return, and when over-building was apparent, activity was curtailed. The tendency has been a declining market for so long that some observers believe the tide will turn shortly into an era of home building. They assert that a nation does not over-build except for brief periods, and in a larger sense there can be no prolonged accumulation of unwanted construction.

To substantiate this viewpoint, it is pointed out that the normal increase in our national population requires from 300,000 to 500,000 new housing units every year. Furthermore, Amer-

ican standards of living, constantly demanding finer homes, increase the potential market.

On the other hand, restrictions on immigration and the increasing undesirability of living near downtown business districts are creating a vast number of vacancies and depleting values in such areas. Funds are frozen that might otherwise be extended to home builders on a safe mortgage loan basis in more desirable locations. In addition, current business conditions have forced considerable "doubling up" of families or removal to smaller towns, and tend to check the normal demand for additional housing units.

In addition, the mounting tax rates, cost of home maintenance and the responsibility entailed as compared to the more care-free renter are cited in avoiding home ownership. Building executives believe that a merchandising campaign to counteract this sentiment could stress the point that a nation of home owners is economically and socially better off than a nation of renters. As far as costs are concerned, it would stress the investment standpoint over a long period of time, in which realty values are bound to adjust themselves and advance as they have in the past. But the problem of a nation-wide advertising campaign among the countless number of individual contractors and material manufacturers is one not easily solved. To date, the little effort in that direction has been spasmodic and local in character.

The matter of financing home ownership admittedly has caused loss of sales to the building industry. The industry has been somewhat backward in placing home ownership on more attractive terms. In fact, it has been pointed out that it is easier to borrow 75 to 80 per cent on an installment than to buy a home on anything like that basis. Part of the difficulties lie in inadequate financing, and part in obsolete banking laws. But the effect is the same in either case.

The growth of the single company which will design, build and finance a home to responsible owners at reasonable terms will continue to be helpful to the industry. As a general rule, there is too wide a breach for the prospective home buyer to bridge with cash between the financing agency and the actual construction cost. It is proving popular to make the installment payments on a monthly basis as rent, either on a mortgage or to a construction financing company.

Recent national surveys have indicated that while there has been widespread deflation in residential property values, rents have been much slower in reacting to this decline. Only within the past few months has there been any general revision downward, and new homes and apartments are able to maintain rentals at fairly stabilized levels.

In this connection, obsolescence is a major factor in the building industry that is constantly developing new designs, fixtures and interior appointments for homes that appeal to the housewife, and the usually selects the rented home or apartment. As a result, the owner of older residential structures finds he is being forced to accept lower rents to hold his tenants, while the owner of the newer and modern structure is able to maintain some semblance of an owner's market. For this reason, modernization and re-

modeling often pay the owner far more in rental and market value than the money actually expended in effecting these improvements.

The shift of population to the cities has caused important changes in the type of residential construction during the past few years, as shown by the following table on relative construction values:

	Single Homes	Two-Family	Multi-Family
1921	58.3%	17.3%	24.4%
1925	46.1%	17.3%	36.4%
1926	40.7%	13.9%	45.4%
1927	38.3%	13.4%	48.3%
1928	35.2%	11.1%	53.7%
1929	40.2%	11.2%	48.6%

Not until 1929, when a prosperous era and more favorable credit terms were available, did the tide turn back to single homes. The ratio of two-family houses has remained fairly constant, but multi-family structures, including apartments, have practically doubled since 1921, reflecting the trek to urban communities.

The building industry is not unmindful of the fact that building materials and home styles may change rapidly in the future, effecting important changes in construction methods and equipment. Steel framework to replace wood is regarded favorably, the outstanding advantage being a firmer structure that will minimize settling and cracking of plaster. Steel and concrete floors are becoming more common, giving added strength and reducing the fire hazard.

From this substitution of accepted materials it may not be a far step to other new composition materials for interior or exterior use that may eventually reduce building costs even more. New products are constantly being developed, and few industries give more indication of radical changes than the building trade. Improved insulation against heat, cold and sound is indicated. Air conditioning is being developed. The American home of ten years hence also may present an entirely different architectural appearance, flat roofs lending themselves more readily to steel framework.

One authority has estimated that the complete use of steel in residential construction would require about 9 tons, offering a potential market of 2,700,000 tons of steel annually. Promotion of this type of home has lagged far behind engineering, and it is only recently that any organized merchandising has been attempted. Germany has made the most rapid strides in steel case construction.

In the non-residential field, including commercial buildings, factories, public buildings, religious and memorial structures, and other institutions, there has been a marked decline in activity this year.

Industrial construction has dropped sharply with curtailments in production, leading to idle capacity. In fact, some industrial engineering and building firms are driving home this very point by appealing to their markets, asserting that today's manufacturing need is a compact and efficient plant in which operations can be carried on profitably at fractional capacity. Industrial construction, however, is totaling only about half of what it did a year ago. Adequate financing is difficult to obtain.

The commercial building situation is largely the result of over-building of recent years. Owners are finding it difficult to keep tenants occupied on a scale which provides a reasonable investment return. Business firms are merging or taking smaller office space in line with general retrenchment policies.

Public works, construction, embracing highway building, public utility extensions, bridge work, oil and gas pipe lines and similar projects by private and public capital have shown smaller losses this year. In fact, highway

building promises to attain a record-breaking volume in 1931, topped by a \$239,080,300 congressional appropriation for Federal highways. States have increased gasoline taxes and authorized additional bond issues to supplement this program. Construction has been accelerated wherever possible to provide jobs to the unemployed.

Normally, about \$3,500,000,000 is expended annually on public works programs, and while pressure has been exerted to promote all possible construction, the actual work under way has fallen short of original estimates. At a time when governmental units are faced with deficits legal obstructions and public policy have delayed the issuing of bonds, or held up final operations.

A recent survey of the S. W. Strauss Co., conducted in co-operation with 236 Chambers of Commerce throughout the country, indicates contemplated public works construction totaling \$4,500,000,000, of which only about one-fourth was going forward. The balance was being delayed for one reason or another. Conservative estimates place the volume for the second quarter at 25 per cent under the corresponding period of a year ago.

The alarming increase of taxes tends to keep both private and public interests from proceeding with extensive building projects at this time. Beyond a certain point, it is questionable whether the stimulating effect of new public construction overbalances the evils of higher taxes on individuals and business. However, privately owned corporations who must plan extensively and improvements years ahead of demand, such as the light and power industry, are taking advantage of low costs to build necessary additions to effect operating economies.

Summary

Bartering unforeseen developments in the last half of the year, it appears certain that the total volume of construction in 1931 will fall short of the 1929 mark, which was under the past ten-year average.

The most encouraging factors in the outlook are the improvement in the residential construction field and certain types of public works, notably highway construction. The value of all types of construction in the United States last year was estimated at \$6,525,000,000. Present indications point to a valuation volume some 20 per cent under this figure for 1931, although the decline in material costs will make the actual construction compare more favorably, as it already has in residential building.

It seems likely that comparisons for the second half of 1931 and 1929 will be far more favorable, and it is in this period that the industry should make its best showing.

RUN DOWN AUTOS PROVE A MENACE

One accident, out of every three involves an old, run-down car. In the opinion of R. G. Guyett, insurance broker, member of the San Francisco Builders' Exchange.

When behind the wheel of an old, rattle-trap car, a driver does not usually exercise the same degree of care in driving as he does when driving one in good condition. The reason for this is obvious, according to Guyett. He has the new, shiny object more at heart than he has the one with the flopping fenders and the boiling radiator. He does not have the added incentive of newness to protect this possession, and accordingly is just that much more careless.

"Then there is the element of safety devices on the older cars which makes them objects of danger on the streets," says Guyett. "Brakes, steering wheel, rear view mirrors, and acceleration facilities are usually very faulty. Add to this the more careless attitude, and you have the reason why old, rattle-trap cars are involved in one out of three accidents.

"Perhaps they may not be in the middle of things, but if you will carefully study the report of each accident, you will find that though they were not actually involved, they were more than likely the cause of two other cars smashing into each other because of inconsiderate or reckless driving. There are many motorists who have been compelled to drive into trees over ditches, and in the paths of other cars because of the slow and unsteady gait of some out-of-date car ahead of or beside them.

"You cannot point your finger at the driver of these cars and say that they are absolutely at fault and prove such contentions at law," Guyett declared.

Guyett advocates periodical testings under state supervision.

Gordon Chamberlain Is Killed by Truck

Gordon Chamberlain, grading and teaming contractor, operating under the firm name of McClure and Chamberlain, was killed last Saturday morning on the San Francisco War Memorial project.

Chamberlain was supervising the operations of his equipment when he was struck and run over with a five-ton truck loaded with concrete.

William P. Clement, 30, of 443 Peninsula Avenue, driver of the truck, was arrested.

HOW MATERIAL COSTS COMPARE

Below are the quantities of basic materials used in building a 24 by 26 foot brick and tile residence, showing the unit prices and total cost for 1914, the peak year of 1920 and the quotations on May 1 of this year. The tabulations were compiled by the Cleveland Builders Supply Company.

	1914		1920		1931	
	Unit Price	Total	Unit Price	Total	Unit Price	Total
2000 common brick	\$ 7.50	\$15.00	\$ 23.00	\$ 46.00	\$12.00	\$ 24.00
13,000 face brick	18.00	234.00	50.00	650.00	18.00	234.00
1200 5x8x12 tile	35.00	43.20	102.00	122.40	41.40	49.68
4000 5x8x12 tile	20.00	80.00	60.00	240.00	23.75	95.00
17 1/2 lbs. cem., paper	2.00	35.00	4.00	70.00	1.82	32.00
43 tons sand	1.75	75.25	3.00	129.00	1.90	81.70
6 tons plaster	5.50	33.00	11.50	69.00	8.50	51.00
100 sacks White Rock	.28	28.00	.85	85.00	.35	35.00
1/2 tbl. plaster Paris	2.00	1.00	5.00	2.50	7.50	3.75
		\$544.45		\$1393.90		\$612.15
				(156%)		(12%)

THE OBSERVER

What He Hears and Sees on His Rounds

Fred DeTemple, chairman of the Apprenticeship Committee of the Oregon State Association of Master Plumbers, at the annual convention of that body held in Bend, Oregon, reported that twenty boys were being trained in the Portland school under the supervision of a commission of four master and four journeymen plumbers, the school being conducted by the Portland school district.

Benjamin C. Gallup, 42, civil engineer, died at his home in Fair Oaks, Sacramento county, June 8. Gallup was a native of Houston, Texas.

Louis O. Hansson, Berkeley contractor, died in that city last Sunday following a brief illness. His widow and two children survive.

William H. Wattis, president of the Six Companies, Inc., contractors on the Boulder Dam, last Tuesday became a Doctor of Laws. The honorary degree was awarded the engineer at commencement exercises of the University of Utah, in Salt Lake City, according to Associated Press dispatches. Wattis is ill in St. Francis Hospital here. The degree will be formally presented to Wattis here at a date to be set later.

Contract for making 26 combination feed check and stop valves for the 4,000 ton liners at building in the east for the United States Lines has been won by the United Engineering Company of San Francisco. The valves are being shipped east as fast as they are finished. Each ship will use thirteen valves. Each valve weighs 500 pounds. Each of the new trans-Atlantic liners will cost about \$10,000,000.

Caterpillar Tractor Co., Peoria, Ill., has decided to discontinue production of its Super-Mogul, Super-Reliance, Super-Special and Twenty graders, which are being superseded by equivalent leaning-wheel models.

A cut of \$2 per day for eight principal trades in Houston, Texas, went into effect on May 1: all old work is to be completed at the old scale. Most union men walk out in protest but all new jobs will be operated on a non-union basis.

Babcock & Wilcox Co., New York City, has acquired non-exclusive licenses to use the automatic arc-welding patents of the Automatic Arc Welding Co.

Members of the building trades of Joliet, Ill., have refused to consider a 30 per cent reduction offered by the contractors of that city. Building work is continuing at the old scale.

Wisconsin state highway department has a big grade crossing elimination program under way. It calls for the building of 90 overhead structures at dangerous crossings. Contracts have been let or bids have been taken for 45 of these projects. The program represents work originally planned for 1931, 1932 and 1933, which, with the co-operation of the railroad companies, has been consolidated into a one-year program. A recent increase in the gasoline tax from 2 to 4 cents per gallon will provide the fund needed to advance the work.

Blaw-Knox Co., Pittsburgh, Pa., has acquired exclusive sales and manufacturing rights for the Ateco line of earth-moving machinery from the American Tractor & Equipment Co., Oakland, Calif., for the United States east of the Rocky Mountains and for all other countries.

Differences between the high-duty gasoline engine and the so-called industrial engine form the basis of an illustrated bulletin issued by the Sterling Engine Co., Buffalo, N. Y., which explains the essential points that should be considered in choosing an engine for a specific purpose.

Clover Valley Lumber Company has purchased the plant of the Union Mill & Lumber Company at Reno, Nevada. The purchase price is estimated at \$15,000. The Union mill is one of the oldtime planing and sash-and-door plants of Reno and will be operated in conjunction with the large Loyalton mill of the Clover Valley Lumber Company.

Mark Dillon, 236 Barenson Ave., San Mateo, will operate from 1240 El Camino Real, San Mateo, under the firm name of West Side Plumbing Shop.

Frank Lamb, general contractor, has been elected president of the Vallejo Builders' Exchange. George Barench, general contractor, was elected vice-president and Roy Morris, secretary.

American Lumber Co., has filed suit at Modesto against George Covell and others for \$515.70, alleged due for materials furnished defendants in the construction of the Hotel Covell annex.

New bookings for structural steel in April amounted to 293,600 tons, against 154,400 in March and 222,800 in April, 1930, according to the U. S. Department of Commerce. Shipments for the month totaled 147,600 tons, against 151,200 in March and 284,000 in April, 1930.

"I have been through six depressions during my life. They all act alike. The men who, if business fell off 66 per cent, increased their selling efforts 75 per cent, managed to pull through as if there were no depression, and the efforts of such men tend to shorten periods of depression."—Thomas A. Edison.

The man who writes "Realtor" on his window or on his letterhead or his advertising must be a realtor in fact, or he will be liable to suspension or revocation of his license under authority of the State Real Estate Department. The amendment to the act was signed last week by Governor Rolph. It is now the law of the State.

The 29th annual Convention and Road Show of the American Road Builders' Association will be held in Detroit, January 9 to 15, 1932. The Detroit Airport building will be used for both the convention and the road show. All exhibit space is on the ground floor and the huge doors make possible the setting of the largest equipment without difficulty.

W. Chester Morse, consulting engineer, who served as city engineer of Seattle, Wash., during 1927 and 1928.

has been named to succeed J. D. Ross as superintendent of Seattle's lighting department. The appointment was made by Mayor Edwards and was the second in a succession of five appointees named by the mayor and tentatively rejected by the city council during a protracted struggle to bring about the reinstatement of Mr. Ross. Mr. Morse was confirmed by a 5 to 4 vote of the council.

Removal of foreign trade barriers in the Pacific area, particularly tariff difficulties, in an effort to increase commerce, will form the principal topics of parley at the 1931 convention of the Pacific Foreign Trade Council in Oakland next September.

Increases from five to 20 per cent in rates paid by employers under the state workmen's compensation act, is announced by the Oregon Industrial Commission. Principal industries affected are logging, agriculture, mills, building, electric, smeries, longshoring and paper manufacturing.

E. K. Wood Lumber Company, Los Angeles, have been appointed distributors of Therman Corporation of Chicago. A. Van Zant is the factory representative in the western states with headquarters in Los Angeles.

According to a statement by the Bureau of the Census reports from 835 mills cutting 5,000,000 ft. or more annually showed production of 16,034,041,000 ft. in 1929, a decrease of 23.9 per cent compared with 1928. It is estimated these mills produce 57.1 per cent of the total output of lumber in the United States.

The organized contractors of Davenport, Iowa, have entered into negotiations looking toward a reduction of \$1 per day for all crafts. Work is continuing under the old scale.

Nine counties, comprising the San Francisco bay area, contain 3,758 industrial establishments, whose products annually are valued at \$1,127,926,000, with 98,038 wage earners and an annual payroll of \$139,532,000, according to the San Francisco Down-Town Association.

Robert S. Osgood, former manager of the Wheeler-Osgood Co., of Los Angeles, is now sales manager of the Washington Veneer Co. at Olympia, Wash.

The Dorr Co. and Oliver United Filtrics, Inc., have been united by the formation of the Dorr-Oliver Corp. under the joint management of John V. N. Dorr and Edwin L. Oliver. The corporation will function through two wholly owned operating units, retaining their present names and staffs, making joint use of technical information and carrying on joint research and development work.

Walter Alfred Moser, 45, district manager of the Westinghouse Electric & Mfg. Co. in Salt Lake City, Utah, died May 22 of heart disease. He had been associated with Westinghouse since shortly after his graduation from the University of Nebraska in 1907, was a past-president of the Electrical League of Utah and a member of the Utah Society of Engineers.

Sixteen hundred employes of the Mansfield plant of the Empire Steel Corp. shortly after Ohio graduates voluntarily cut their wages 5 per cent to help tide the company through its receivership. The same employes struck recently when a 5 per cent and later a 10 per cent reduction was announced. The strike was settled when the firm rescinded the wage cut.

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1864).

R-3588-S ARCHITECTURAL Draftsman, with 4 or 5 years' experience on various kinds of detail work, to make tracings and drawings under the supervision of a structural engineer. \$175 month. Temporary. Location, San Francisco.

R-3589-S KEYSTONE DRILL Runners, experienced, for work in Western Canada. Must be either Canadian or English citizens. Headquarters, San Francisco.

W-2790 ENGINEER, 35-45, who has had experience in bringing industries to certain localities. This is for a Western Chamber of Commerce. Salary \$7500 a year. Apply only by letter.

W-2791-S ENGINEER, technical graduate, American with good experience in rock drilling and rock excavation, preferably on heavy construction work, and also having had sales experience or having ability and personality for selling. Apply by letter. Location, East.

W-2745 EXECUTIVE ENGINEER, with broad gauge scientific experience, to coordinate the efforts of a number of other scientific engineers in all branches of engineering. The enterprise is educational and non-commercial and offers an exceptional opportunity to some one with tact and ability to secure cooperation. Apply by letter only. Salary \$5000 a year. Location, Middletown.

R-3590-S ASSOCIATE or FULL PROFESSOR of Mechanical Engineering, to carry on research work in agricultural engineering. Would not be required to do any teaching. Should be 35 to 40 years of age, exceptionally well qualified in mathematics and physics and preferably with an advanced degree in engineering. Apply by letter with full details of training and experience, and photograph. Salary \$3600-\$4800 per year. Permanent. Location, West.

\$5,770,000 DAM PROJECT APPROVED

State Engineer Edward Hyatt has approved the City of Pasadena's amended application to build a \$5,770,000 dam on the San Gabriel River, about four miles above Azusa, Los Angeles County.

The city originally asked permission to construct the dam last September, but later, after the safety of the proposed dam had been questioned, filed an amended application. The original plan contemplated storage of 64,000 acre feet of water and a dam fifty feet higher than will now be built. The new reservoir will hold 40,000 acre feet.

Hyatt, before granting the application, appointed a consulting board comprised of geologists and engineers to advise on the safety features of the project.

Sacramento Chapter, American Association of Engineers, at the last regular luncheon-meeting in the Hotel Sacramento, took steps to secure the national convention of its organization for Sacramento in 1932. E. A. Bales was elected club delegate to the 1931 national convention, to be held in Huntington, West Virginia, this October, and he will make the plea for Sacramento as a convention city in 1932.

RETAIL LUMBER SALES DURING MAY SHOW FAIR INCREASE

Sales of lumber by retail dealers showed an increase during May of from 5 to 10 per cent over April, the June 1 issue of "The Lumber Market" monthly business review and forecast of the National Lumber Manufacturers' Association, states. There will be a similar increase in June retail movement, at slightly lower prices, however, according to the consensus opinion of two thousand reporters, consisting of lumber retailers, wholesalers, manufacturers, banks, building and loan institutions and other informed sources.

Sales of lumber to retailers showed a 1 to 5 per cent decrease during May in the face of an expected increase, and prices paid by retailers dropped from 5 to 10 per cent, although only from 1 to 5 per cent of this drop was passed on to customers during the month. A very slight increase in sales to retailers is expected during June. A rather substantial increase in softwood sales to industrials, but no improvement in hardwood movement, is forecast for June.

On May 16 manufacturers' stocks were 5 per cent below those held on May 18, 1930. Dealer stocks increased substantially during May over April of this year and there was a slight decrease in stocks held by industrials.

Residential building fulfilled expectations, showing a 5 to 10 per cent increase in May over April, though a slowing down of this ratio for June is anticipated. Building money is reported "ample, but difficult to procure" in most localities, due to rigid credit requirements.

Building Industries of San Jose Elects

Building Industries Association of San Jose, organized last year to protect the interests of affiliated building groups, held its first annual meeting last Wednesday and elected its second board of directors.

Activities of the association during its first fiscal year were reported by L. C. Rossi, secretary-manager.

Those elected directors were: Wm. Abbett, tile company; John P. Maluvius, material dealer; R. H. Borchers, material dealer; Warren Holmes, hardware dealer; William Serrin, plumbing contractor; J. Lester Miller and William Barkuloo, building and loan association officers; William F. Hayward, lumber dealer; A. L. Hubbard, lumber dealer, and L. C. Rossi. A seventh member will be named later.

The directors will call a special meeting this month to elect officers. The present officers are J. Lester Miller, president; John P. Maluvius, vice-president, and L. C. Rossi, secretary-manager.

CONTRACTOR'S SUIT AGAINST COUNTY SET

With a motion for judgment on pleadings denied, the case of A. J. Raich, San Francisco contractor, against the County of Monterey, involving \$15,899, was set for trial for August 24 by Superior Judge M. T. Doelling.

Raich is suing the county for that amount, claimed due for paving work on the Salinas-Monterey road, done under contract two years ago. The county denies that the \$15,899, which is allegedly in excess of the terms of the contract, is due.

STEEL PRODUCT IN CERAMIC TILE FIELD

Steel sheets find a new market and ceramic tile a new competitor in the application of a heavy porcelain enamel to light pressed material, The Business Week reports. The product has been taking the place of ceramic tile in a number of places where weight is a consideration, as on shipboard, or where economy is important, as in hotels and other construction.

The Porcelain Tile Co., owner of the patent, has been having the product manufactured in several places the last two or three years. Recently it let a large contract to the Youngstown Pressed Steel Co. of Warren, O. The Ferro Enameling Co. of Cleveland, which handled the contract, is installing the enameling equipment at Warren and supplying the materials. The continuous process of enameling developed by Ferro at its Louisville, Ky., plant is being employed on the new product.

Steel sheet is stamped in the form of a tile, a rectangle with turned-up edges. The stamping is pickled and placed on a conveyor which carries it through the spray enameling machine. After baking, the tile is cooled and given a second coating of enamel. The steel tiles are mounted on wallboard, the edges fitted to grooves cut in the board, and cemented with waterproof cement.

A national survey of school finance in the United States involving a four-year investigation will start July 1, according to announcement by Secretary Ray Lyman Wilbur of the Department of the Interior.

Provided with an appropriation of \$350,000, the federal study will be conducted under the direction of Dr. Wm. John Cooper, commissioner of the federal office of education. Dr. Cooper was formerly of Columbia. Dr. Paul R. Mort of Teachers College, Columbia University, has been appointed associate director of the survey.

Expenditures for public elementary, secondary and higher education in the United States now total \$2,450,000,000 annually. The national survey is expected to produce comparative information on sources and uses of these funds in order to satisfy the demand by state legislatures, school officials, and school boards for authoritative data.

From headquarters of the Bricklayers, Masons and Plasterers International Union at Washington comes a heated criticism of the suggestion made May 8 by organized contractors that the "paving wage" law be amended. The contractors contend that wage rates on federal government contracts should be predetermined and specified in the contract. The union quotes a contractor-official as suggesting "a constructive amendment to make the wage law workable and equitable and, at the same time, assure a living wage to construction labor." The words "living wage" evidently have started a conflagration, judging from the threat of the union that "organized labor will give these organized employers the bottle of their life," should a so-called "living wage" be written into the law. The union's interpretation of the term is that it "cannot be anything except a bare subsistence wage."

The Hamilton Construction Company, formerly located at 5144 Geary Street, has moved to new and larger quarters at Room 714 Hearst Bldg.

Electrical workers union of Spokane, Wash., accept a wage cut of 11 per day, making the scale \$8 per day.

\$4,000 IS COST OF FUTURE MODERN HOME

American home lovers can look forward to being able to secure in the near future, houses that can be constructed and furnished in a week and which may cost, with all modern improvements, as low as \$4,000. A. Lawrence Kocher, managing editor of "Architectural Record," New York City, declares.

This house will be planned and built with a new regard to the preservation of health. It will have adjustable outside walls and partitions so that occupants can arrange the interior as fancy or necessity dictates; and central community heating will relieve house dwellers of all responsibility in this connection.

There will be more sun porches, roof terraces and attractive outdoor garden space, and the houses themselves will be built so that more sunlight and air may be admitted to keep the occupant out of the hospital, said the speaker.

Mass production of building sections, the development of the possibilities for assembling house parts in great quantities, and the setting up of hundreds of houses in an area at one time, would solve the housing need of the moment, and would make possible lower prices in this important field, said Mr. Kocher.

He called "ideal" the creation of community garages instead of individual ones, and said that it would be even more desirable to provide community automobile service so that busy men could merely call for a car when needed, order the size of vehicle he wanted, and be relieved of the responsibility and expense of having an individual automobile. The actual cost of such service each year would be less than individual car ownership, said the editor. Mr. Kocher said:

"A central kitchen should deliver meals to the house or apartment. There should be maid and valet service on call. Provision should be made for recreation, not only for children, but for adults as well. There should be a nursery for the care of children, and a group theater with movies and television provided.

"The house itself should be more flexible than the type that now exists. Such a house should provide a minimum of upkeep and should provide the utmost in convenience and effort-saving devices—It is highly important that this ideal house be low in cost so that the average wage earner could afford to live in utmost comfort.

"Today we erect hospitals provided with sun porches, terraces and perfect ventilation to bring back to health the victims of our crowded cities. Why should we not so build the house of the next decade that health may be conserved, that we may prevent the sickness, unhappiness and crime that result from crowded conditions and poorly designed houses?

"In short, the house of the future should be made for use and pleasure and not to satisfy the whim of architects and developers, who build a sweetly picturesque or quaint bungalow that attracts attention but that does not satisfy the more important human need."

Mr. Kocher said that houses are built along too massive lines, and that it is not necessary to construct them as though they were to endure for all time. He stated that materials for the "new" house will be of light metals and synthetic products, which already have proven their worth in other technical fields. The development of the home is certain to come, and when it does come, the advance will be very rapid, said the speaker, who declared that tradition in design and construction had hindered improvement in the home building field.

S. F. BAY BRIDGE READY FOR USE IN 1937 SAYS PURCELL

Completion of the San Francisco-Oakland bay bridge project by July, 1937, is predicted by State Highway Engineer Charles H. Purcell.

Advertising for the first foundation contract for the \$75,000,000 structure will be made in the fall of next year, Purcell said.

When the \$550,000 loan appropriation from the State becomes available on August 15, intensive work on the bay bridge project will be started.

"I anticipate that design work in the headquarters office we are to establish in San Francisco will proceed with

Disadvantages of Unrestricted Bidding

"An unanswerable argument against unrestricted bidding is found in the fact that it is not to the owner's interest to have an incompetent contractor doing his work," says the Improvement Bulletin. "When seeking any other service the owner carefully weighs the qualifications of the man he employs. But too frequently the owner considers unrestricted and unlimited bidding an easy path to low cost. He depends upon his architect or his engineer to see that the work is performed in strict accordance with the specifications. He forgets that contractors are not on a dead-level of efficiency. There are good contractors, poor contractors, and those of all grades in between. There are contractors who consider it a point of honor to turn out a good workman-like job, and there are, alas, those who have scant regard for their future reputation. Their motto seems to be, 'let the owner beware.'

"No architect or engineer, no matter how skillful, possesses any sort of magic wand that will turn a bungling workman into a competent one. The fact that both plans and specifications are above reproach will not result in a first-class job if the contractor has neither executive ability nor the skill that comes from experience. A bungling workman is a bungling workman, no matter what his profession or trade. An architect's skill cannot transmute the base metal of a contractor's inefficiency into the pure gold of able performance.

"The idea of turning loose sets of plans and proposals to twenty or thirty contractors is sheer nonsense. Each one of the bidders incurs an expense by no means inconsiderable in figuring the plans. The chance of obtaining the contract is very small, and it is not as apt to go to a contractor who is inexperienced, inefficient, and does not figure correctly."



C. H. PURCELL
State Highway Engineer

sufficient rapidity to enable us to determine an accurate estimate of the entire project by July 1, 1932, so that bonds may be sold immediately thereafter, Purcell said.

Considerable progress is being made on preliminary work in connection with the huge project. Work has started on key maps of the area affected by the bridge and its approaches, showing all physical data, contours, buildings and tracks involved, which will form a basis for final studies of the entire layout, Purcell said.

Control monuments are being set to be used in locating borings and piers. The monuments will be placed on Telegraph and Rincon hills.

Purcell announced that Ralph Modjeski, chairman of the board of consulting engineers appointed for the project, is expected here soon. Moran and Proctor, foundation authorities, also have been named to the board and others may be added later, Purcell said.

Bulletin 40-1 of the Fairfield Engineering Co., Marion, Ohio, describes Fairfield portable belt conveyors, made in lengths of from 20 to 60 ft. for handling sand, gravel, crushed stone, mixed concrete and similar materials. Belt widths of 20 and 24 in. are available, equipped with either gasoline or electric power units.

BUILDING COSTS 15 TO 35% LOWER

The future offers much of hope to those engaged in the construction industry and to those who invest their money in building enterprises, Truman S. Morgan, president of the F. W. Dore Corporation, stated in a recent address broadcast by radio. He brought out that construction costs today range from 15 per cent to 35 per cent lower than they were a year or two ago.

Urging those who desire to own a home to take advantage of present conditions, Morgan said:

"In its social aspect, new building methods and improvements of all kinds represent advances in the standards of living, and construction, particularly home building, may be considered a measuring rod of progress of the American people. Statistics show that communities where home ownership predominates are far less affected by concurrent waves or cycle of depression. Today we have large accumulations of unemployed capital funds with restricted purchasing power. The launching of construction enterprises at such an opportune time as presents itself today would probably help more than any thing to bring back prosperity. It is probable that we will find directly around the corner many necessary adjustments."

CONTRACTORS MUST KEEP RECORDS OF CITIZENSHIP OF EMPLOYEES

Senate Bill No. 83, known as the "Alien Labor Bill," passed by the California Legislature and signed by Gov. Rolph, will become a law on August 14 next. It provides that any contractor or subcontractor who "shall knowingly employ or cause or allow to be employed" on any public work any alien, except in case of extraordinary emergency, shall forfeit as a penalty \$10 per day for each alien so employed.

Contractors will be required to keep accurate records of the names and citizenship of all persons employed on public work, such records to be open to inspection at all reasonable hours to those concerned in the enforcement of the law. In event any alien is employed the contractor shall within 30 days thereafter file with the contracting authority a verified statement setting forth the nature of the emergency.

No funds shall be withheld from progress payments to cover probable penalties without a full investigation.

Failure to keep proper records as required by the law on the part either of a public officer or agent or a contractor is made a misdemeanor punishable by a fine not exceeding \$500 or imprisonment not exceeding 6 months or both. Following is the text of the new law:

Section 1. No person, firm, partnership, association or corporation, or agent thereof, doing any work, or contractor or subcontractor, upon any public work being done for or under the authority of the state, or any officer or department thereof, or for or under the authority of any county, city and county, city, town, township, district, or any other political subdivision thereof, or any officer or department thereof, shall knowingly employ or cause or allow to be employed thereon any alien, except in cases of extraordinary emergency caused by fire, flood, or danger to life or property, or except to work upon public, military or naval defenses or works in time of war; provided, however, that within thirty days after any alien is permitted to work thereon due to such an extraordinary emergency, the contractor doing the work, or his duly authorized agent, shall file with the officer or public body awarding the contract a report, verified by his oath, setting forth the nature of the said emergency and containing the name of the said alien and each date he was permitted to work, and failure to file the said report within the said time shall be prima facie evidence that no such extraordinary emergency existed. Such contractor and each subcontractor shall also keep, or cause to be kept, accurate records showing the names and citizenship of all workers employed by him in connection with the said public work, which record shall be open at all reasonable hours to the inspection of the officer or public body awarding the contract, his or its deputies and agents, and to the chief of the division of labor statistics and law enforcement of the state department of industrial relations, his deputies and agents.

Section 2. The contractor to whom such contract for public work is awarded shall forfeit as a penalty to the state or county, city and county, city, town, township, district or other political subdivision on whose behalf the contract is made or awarded ten dollars for each alien knowingly employed on the execution of said contract, by him, or by any subcontractor under him, upon any of the public works, or upon any work herein mentioned, for each calendar day, or por-

tion thereof, during which such alien is permitted or required to labor in violation of the provisions of this act, and the officer or public body awarding the contract shall cause to be inserted in the contract a provision to this effect. It shall be the duty of such officer or public body to take

notice of all violations of the provisions of this act committed in the course of the execution of said contract, and, when making payments to the contractor of moneys becoming due him under said contract, to withhold and retain therefrom all sums and amounts which shall have been forfeited pursuant to the herein said stipulation at the terms of this act; provided, however, that no sum shall be so withheld, retained or forfeited, except from the final payment, without a full investigation by either the division of labor statistics and law enforcement of the state department of industrial relations or by said awarding body; and provided, further, that in all cases of contracts with assessment or improvement districts where the full payment is made in the form of a single warrant, or other evidence of full payment, after the completion and acceptance of the work, the awarding body shall accept from the contractor in cash a sum equal to, and in lieu of, any amount required to be withheld or retained under the provisions of this section, and said awarding body shall then release the final warrant or payment in full. It shall be lawful for any contractor to withhold from any subcontractor under him sufficient sums to cover any penalties withheld from him on the awarding body's account of the said subcontractor's failure to comply with the terms of this act, and if payment has already been made to him the contractor may recover from him the amount of the penalty or forfeiture in a suit at law.

Section 3. Work done for irrigation, utility, reclamation, improvement and other districts, or other public agency or agencies, public officer or body, as well as street, sewer and other improvement work done under the direction and supervision of the authority of any officer or public body of the state, or of any political subdivision or district thereof, whether such political subdivision or district operates under a freeholder's charter heretofore or hereafter approved or not, shall be deemed to be done directly by any public utility company, pursuant to order of the railroad commission or other public authority, whether or not done under public supervision or direction, or paid for wholly or in part out of public funds, shall be held to be "public work" within the meaning of this act.

The term "alien" as used herein means any person who is not a born or fully naturalized citizen of the United States.

Section 4. Any officer, agent or representative of the State of California, or of any political subdivision or district thereof who shall violate or omit to comply with, any of the provisions of this act, and any contractor, or subcontractor, or agent or representative thereof, doing public work as aforesaid, who shall neglect to keep or cause to be kept, an accurate record of the names and citizenship of the workers employed by him in connection with the said public work, or who shall refuse to allow access to the same at any reasonable hour to any person authorized to inspect same under this act, shall be guilty of a misdemeanor, and shall upon conviction

be punished by a fine of not exceeding five hundred dollars, or by imprisonment for not exceeding six months, or by both such fine and imprisonment, in the discretion of the court.

Section 5. If any section, sentence, clause or part of this act is for any reason held to be unconstitutional, such decision shall not affect the remaining portions of this act. The Legislature hereby declares that it would have passed this act, and each section, sentence, clause, or part thereof, irrespective of the fact that one or more sections, sentences, clauses, or parts be declared unconstitutional.

President's Timber Policy Now Effective

The President's policy restricting sales of timber from national forests as a means of relieving the depressed conditions in the lumber industry will not appreciably affect California lumbermen according to S. B. Show, Regional Forester, U. S. Forest Service.

Instructions issued by R. Y. Stuart, chief forester, effective immediately are to make no sales of timber where the value is over \$500 except to supply the needs of existing mills which are dependent on national forest timber where other timber cannot be obtained, to furnish domestic paper mills with raw material for news print and other pulp products for local markets and to dispose of wind thrown, fire damaged and bug-infested timber. According to Show the California region of the Forest Service has been following a similar policy for several years because of conditions in the lumber industry in this State.

The exceptions to the policy of making no sales over \$500 are designed to avoid causing unnecessary unemployment or unnecessary hazards to the national forests.

CEMENT PRICES AT SEATTLE IMPROVE

Stabilization of cement prices in Western Washington at \$2.85 per barrel gross, f.o.b. car Seattle to the consumer in large quantities, is reported effective by Seattle dealers. This figure is 20 cents below the level of early 1929.

Price of cement in paper sacks, car-load lots, is \$2.55 gross. This compared with a \$2.85 figure early last year.

During the last year or more no sales value for the commodity was effective in the Seattle territory. Dealers report Superior Portland Cement quoting the new prices.

Usual trade discounts and allowance of 10 cents for cloth sacks are provided.

NEW LUMBER CO. TO OPERATE YARD

The Cutter Mill and Lumber Company of Sacramento, has just leased its auxiliary lumber yard on the 12th Street Road at North B Street to a new Sacramento corporation known as the Sacramento Lumber Company, Ltd., which will operate the yard in the future.

The Cutter company has its main yards and mill at 34th and E Streets and Curtis Cutter, president, announced the company will concentrate its activities there. Several major improvements to the R Street plant are planned.

The Sacramento Lumber Company is headed by C. A. Mlnard, a former manager of the Cutter company, and Paul Norbrbyn, former owner of a lumber yard in Rio Linda.

Building News Section

APARTMENTS

Additional Sub-Contracts Awarded.
APARTMENTS Cost, \$20,000
SAN FRANCISCO. SW Revere and
 Keith Streets.

Three-story and basement frame and
 stucco apartments (2 3-room and
 2 4-room apts. and 1 store).
 Owner—A. J. Faggioli, 160 So. Park.
 Architect—Power & Ahnden, 605 Mar-
 ket Street.

Millwork—J. A. Hart Mill & Lumber
 Co., Genoa and Napoleon Sts.

Plastering—E. Damico, 2225 Pierce St.
Sheet Metal—John J. Delucchi, 1526
 Powell St.

Wall Beds—O'Keefe & Co., 738 Mis-
 sion Street.

Refrigerators—General Electric Co.
Stairs—Atlas Stair Building Shop, 12
 Enterprise St.

Painting—By Owner.

As previously reported, grading con-
 tract awarded to Sibley Grading and
 Teaming Co., 165 Landers St.; plumb-
 ing and heating to Adriano Ramaz-
 zotti, 1473 Vallejo St.; lumber to Be-
 ronio Lumber Co., Powell and Beach
 Sts.; structural steel to F. Kern and
 Sons, 517 6th St.; electrical work to
 Wm. Weindorf, 9 Pomona Ave.

Sub-Contracts Awarded.
APARTMENTS Cost, \$45,000
BURLINGAME, San Mateo Co., Cal.
 Three-story and basement frame and
 stucco apartments (15 2- and 3-
 room apts.)

Owner—Moore Const. Co., care Realty
 Investment Co., Rm. 310, 101 Post
 St., San Francisco.

Architect—Edwards and Schary, 605
 Market St., San Francisco.

Composition tile roofing, steam heat-
 ing system.

Lumber—Loop Lumber Co., Broadway
 and Blanding Sts., Oakland.

Plumbing and Heating—Gibbs & Son,
 1706 Geary St., San Francisco.

Plans Being Prepared.

APARTMENTS Cost, \$40,000
SAN FRANCISCO. E Fillmore St. S
 Beach St.

Three-story and basement frame and
 stucco apartments (12 3-rm apts.)
 Owner and Builder—M. P. Storheim,
 475 Euclid Ave., San Francisco.
 Architect—R. R. Irvine, Call Bldg.,
 San Francisco.

Composition roof, steam heating
 system, gas fire boiler, etc. Plans
 will be ready for sub-bids in two
 weeks.

Contract Awarded.
APTS. & STORES Cost, \$11,000
SAN FRANCISCO. SW Mission and
 Lowell Streets.

Three-story and basement frame and
 stucco apts. and stores (3 apts.)
 Owner—M. Paretich.
 Plans by Mr. Ravaglioli.
 Contractor—C. Ravaglioli, 100 Hamil-
 ton Street.

To Be Done By Day's Work.
ALTERATIONS Cost, \$6000
SAN FRANCISCO. 1517 Buchanan St.
 Alterations and additions to frame
 apartments.

Owner—E. Duhose, 1517 Buchanan St.
 Plans by E. Lindquist, 229 Pierce St.

BONDS

SANTA MONICA, Los Angeles Co.,
 Cal.—The Santa Monica Board of Ed-

ucation, 1333 6th St., Santa Monica,
 will probably call a bond election this
 fall at which time bonds to the sum
 of \$1,000,000 will be voted on for sites,
 additions and new buildings.

BAY POINT, Contra Costa Co., Cal.
 —An election will be called July 7, to
 vote on a proposed \$15,000 bond issue
 to finance construction of two addi-
 tional rooms for the Bay Point Gram-
 mar School.

CHURCHES

Sub-Contracts Awarded.
CHURCH Cost, \$200,000

SAN FRANCISCO. Funston Ave. and
 Judah St. (St. Anne's Church).
 Class A reinforced concrete church.
 Owner—Roman Catholic Archbishop of
 San Francisco, 1100 Franklin St.,
 San Francisco.

Architect—Shea & Shea, 545 Mont-
 gomery St., San Francisco.

Contractor—S. Rasori, Call Bldg., San
 Francisco.

Brick Work—Wm. Rainey, 323 Clem-
 entina St., San Francisco.

Roofing—Slate Roofing Co., 4123 Gil-
 bert St., Oakland.

Lumber and Millwork—Sudden Lum-
 ber Co., Evans and Quint Sts.,
 San Francisco.

Concrete—Golden Gate Atlas Co., 16th
 and Harrison Sts., San Francisco.

Sheet Metal—Guilfooy Cornice Works,
 1234 Howard St., San Francisco.

Structural Steel—McClinic-Misrahal
 Co., 2059 Bryant St., San Francisco
Reinforcing Steel—Gunn, Carle & Co.,
 444 Market St., San Francisco.

As previously reported, heating and
 ventilating awarded to A. A. Polla,
 401 14th Ave., S. F.; plumbing to
 Dowd & Welch, 3558 18th St., E. F.;
 electrical work to Severin Elec. Co.,
 172 Clara St., S. F.

Sub-Contracts Awarded.
CHURCH Cost, \$40,000

SAN PABLO, Contra Costa Co., Cal.
 Church and Market Streets.

One-story reinforced concrete church
 (Mission style, tile roof, to seat
 350).

Owner—St. Paul's Catholic Church,
 Rev. Elysto Tozzi, San Pablo.

Architect—John Foley, 770 Fifth Ave.,
 San Francisco.

Contractor—S. Rasori, Call Bldg., San
 Francisco.

SKILSAW Portable Electric Hand
 Saws (4 models).

SKILSAW Portable Electric Sander

SKILSAW Radial Arm Attach-
 ments.

SYNTRON Portable Electric Ham-
 mers (4 models, motor-
 less).

MALL Flexible Shaft Machines (50
 models).

Electric Drills, Grinders, Buffers,
 Routers, Lock Mortisers.

PETER H. NELSON

Labor Saving Portable Electric

Tools.

1248 Mission St. **UNDRhill**
 San Francisco **7642**
SALES . SERVICE . RENTALS

Steel—Gunn, Carle & Co., 444 Market

St., San Francisco.

Cement—Yosemite Cement Corp., 444
 Market St., San Francisco.

Plastering—Hermann Bosch, 449 Ful-
 ton St., San Francisco.

Electrical Work—Pacific Elec. Mfg. Co.,
 5815 3rd St., San Francisco.

Tile Roof—Slate Roofing Co., 4123 Gil-
 bert St., Oakland.

Sheet Metal—Nellan and Stelling, 39
 Isis St., San Francisco.

Metal Sash—Michel & Pfeffer, Hatti-
 son and 10th Sts., San Francisco.

Sub-Bids Being Taken.
SUNDAY SCHOOL Cost, \$20,000

OAKLAND, Alameda Co., Cal. Lake-
 shore and Mandana Bldgs.

Two-story and basement frame and
 stucco building (tile roof, kitchen,
 hot air heating, oil burner).

Owner—First Presbyterian Church,
 26th St. and Broadway, Oakland.

Architect—Hardman and Russ, First
 National Bank Bldg., Berkeley.

Contractor—Harry E. Kane, 321 Ra-
 mona Ave., Oakland.

Bids Rejected—Plans Being Revised.

CHURCH Cost, \$35,000

NAPA, Napa Co., Calif. Third and
 Patchett Streets.

One-story steel frame and reinforced
 concrete church.

Owner—St. Mary's Episcopal Church,
 Napa.

Architect—C. Leroy Hunt, Second and
 Main Sts., Napa.

Will take new bids shortly. Bidders
 on the former plans were as follows:

E. W. Doughty, Napa.....	\$7,854
Geo. Hudson, Oakland.....	37,938
Larsen & Larsen, S. F.....	39,300
The Minton Co., Palo Alto.....	39,680
A. F. Mattock, S. F.....	39,946
Gaufert Bros., Oakland.....	40,640
H. H. Henning, Stockton.....	40,780
E. W. Arnitz, Napa.....	40,865
Sullivan & Sullivan, Oakland.....	41,339
Petaluma Const Co., Petaluma.....	41,658
Fred Westlund, Oakland.....	41,750
Thos. F. L. Furlong, Oakland.....	41,968
J. Dawson, Berkeley.....	42,694

Sub-Contracts Awarded.

CHURCH Cost, \$40,000

SAN FRANCISCO. Bush Street near
 Divisadero Street.

One-story frame church.

Architect—Bertz, Winter and Maury,
 210 Post Street.

Contractor—Jacks and Irvine, 74 New
 Montgomery Street.

Trusses—Summerbell Truss Co., 405
 Builders' Exchange Bldg., Oak-
 land.

Reinforcing Steel—Gunn, Carle & Co.,
 444 Market Street.

As previously reported, wrecking
 awarded to Banks Wrecking Co., 1230
 Howard St.; grading and excavation
 to Sibley Grading & Teaming Co., 165
 Landers St.; structural steel to Judson
 Pacific Co., 609 Mission St.

FACTORIES AND WARE- HOUSES

DINUBA, Tulare Co., Cal.—Fire
 completely destroyed the packing
 plants of Moore Brothers, Federal
 Fruit Company, Ferry Fruit Company
 and the Growers Service Company last
 week, causing damage estimated at
 \$75,000.

NAPA, Napa Co., Cal.—Articles of incorporation were filed by the Napa Mutual Fruit Dehydrating Company, Ltd., for formation of a \$75,000 fruit concern.

Four directors of the company, named to act until the first meeting of the shareholders, are: Wm. Eohen, R. E. Minahan, Walter Lutgo and F. J. Garwood.

It is understood that the new company will build a large dehydration plant in west Napa, construction to be completed in time to handle the coming prune crop.

Contract Awarded — Sub-Bids Being Taken.

WAREHOUSE Cont. Price, \$28,719 OAKLAND, Alameda Co., Cal. First and Market Streets.

One-story brick and steel frame warehouse (140x150 feet).

Owner—Howard Terminal Corp., First and Market Sts., Oakland.

Architect—Reed & Corlett, Oakland Bank Bldg., Oakland.

Contractor—S. G. Johnson, 4652 Dolores St., Oakland.

OAKLAND, Alameda Co., Cal.—Kenyon Electric Co., 526 13th St., Oakland, at \$730 awarded contract by City of Oakland Port Commission for electric wiring for light and power for the Inland Waterways Terminal. (5894) 1st report June 3; 3rd June 10.

Contract Awarded.

LAUNDRY Cost, \$250,000 (with equipment) OAKLAND, Alameda Co., Calif. 730 29th Street.

One-story and mezzanine floor steel frame and brick laundry (175x280). Owner—Oakland Laundry Co. (C. B. Calow), 730 29th St., Oakland.

Architect—Miller & Varnecke, Financial Center Bldg., Oakland.

Contractor—F. C. Stolte, 3443 Laguna St., Oakland.

Following is a complete list of bids: F. C. Stolte, Oakland.....\$32,870 R. W. Littlefield, Oakland..... 33,575 Jensen & Pedersen, Oakland..... 33,580 Deckett & Wight, Berkeley..... 33,983 Geo. Petersen, Oakland..... 34,300 Westlund & Barry, Oakland..... 35,370 Sullivan & Sullivan, Oakland..... 35,397 Bartlett & Nordstrum, Oakland 35,954 Geo. Maurer, Oakland..... 36,553 Decker & Son, Oakland..... 36,787 George Henderson, Oakland..... 37,429

As previously reported, structural steel awarded to Moore Drydock Co., foot of Adeline St., Oakland.

Mezzanine floor will provide classrooms, offices, lockers and showers.

FRESNO, Fresno Co., Cal.—A site is now being selected by the National Biscuit Company of San Francisco on which to build a modern warehouse and distributing center.

Bids Opened.

ALTERATIONS Cost, \$12,000 SAN FRANCISCO. Mills Field Municipal Airport.

Alterations for Hangar No. 1, providing for pilot's room; ticket office, toilet and washroom facilities and 3 repair shops; construct fire house between Hangars Nos. 1 and 2 and alter partition walls between Hangars Nos. 2 and 3 and 3 and 4.

Owner—City and County of San Francisco, S. J. Hester, Sec'y. Board of Public Works.

Plans by Bureau of Architecture, 2nd Floor, City Hall.

Following is a complete list of bids submitted: Clinton-Stephenson, S. F.....\$11,652 Clancy Bros..... 11,660 F. R. Reilly..... 11,875 William Spiveck..... 12,470 A. C. Coleman..... 13,000 Vogt & Davidson..... 13,640

Bids held under advisement.

Sub-Contracts Awarded.

ADDITION Cost, \$2500 OAKLAND, Alameda Co., Cal. No. 4701 Grove Street.

Brick and concrete addition to cleaning plant (39x10x12 ft.)

Owner—John F. Snow Cleaning & Dyeing Works, 4701 Grove St., Oakland.

Architect—R. C. Schuppert, 4631 Park Blvd., Oakland.

Reinforcing Steel—W. S. Wettenhall Co., 17th and Wisconsin Sts., San Francisco.

Lumber—Sunset Lumber Co., 400 High St., Oakland.

Electrical Work—T. L. Rosenberg, 411 Webster St., Oakland.

DINUBA, Tulare Co., Cal.—Moore Brothers' packing plant and Federal Fruit Company's packing plant suffered a \$50,000 fire loss June 10. The loss includes stock and equipment.

Taking Bids on Brick and Steel Sash. FACTORY Cost approx. \$50,000 EMERYVILLE, Alameda Co., Cal. One-story steel frame and brick factory.

Owner—Paraffine Companies, Inc., 475 Brannan St., San Francisco.

Engineer—Leland Rosener, 233 Sansome St., San Francisco.

Contractor—MacDonald and Kahn, Financial Center Bldg., San Francisco.

SAN JOSE, Santa Clara Co., Cal.—California Planning Mill at 132 South Montgomery St. suffered a \$25,000 fire loss June 10. Ralph Stawski, owner.

Contract Awarded.

STEEL DOORS Cont. Price, \$15,488 SAN FRANCISCO. Shed on Pier 15. Thirty-seven steel rolling doors for shed.

Owner—State of California (Harbor Commission).

Engineer—Frank White, Ferry Bldg., San Francisco.

Contractor—Kennerson Mfg. Co., 361 Brannan St., San Francisco.

Bids Opened—Contract To be Awarded WAREHOUSE Cont. price, \$38,719 OAKLAND, Alameda Co., Calif. First and Market Streets.

One-story brick and steel frame warehouse (140x150-ft.)

Owner—Howard Terminal Corp., First and Market Sts., Oakland.

Architect—Reed and Corlett, Oakland Bank Bldg., Oakland.

Low Bidder—S. G. Johnson, 4652 Dolores St., Oakland.

Following is a list of the bids: S. G. Johnson, Oakland.....\$28,719 F. C. Stolte, Oakland..... 28,750 W. G. Thornally, Oakland..... 28,920 Geo. Swanstrom, Oakland..... 29,329 Charles Heyer, Jr., Oakland..... 29,940 H. J. Christensen, Oakland..... 29,540 Wm. C. Keating, Oakland..... 29,720 J. T. Walsh, Oakland..... 30,000

Tile roof, concrete floors, steel sash, steel rolling doors.

SACRAMENTO, Calif.—The First Church of Christ Scientist is planning a new church, to be built in the near future. Negotiations for a site at 23rd and M Streets are under way, but are not expected to be concluded until the first of next month. Chris R. Jones, of Hickman-Coleman Co., realtors, is handling the sale. The site being considered by the church trustees is 110 x 160 feet.

Preparing Preliminary Plans. WAREHOUSE Cost, \$10,000 SAN FRANCISCO. Twenty-second St. near Folsom St.

Reinforced concrete Class B warehouse (mezzanine, asphalt roof, steel sash).

Owner—Withheld Temporarily.

Architect—L. O. Berg, 675 Corbett Ave., San Francisco.

Contracts Awarded.

WAREHOUSE Cost, \$20,000 OAKLAND, Alameda Co., Cal. South Seventh St. E Fallon St.

One-story reinforced concrete warehouse.

Owner—George R. Borrmann Steel Co., 4th and Grove Sts., Oakland.

Engineer—H. W. Rollin, Financial Center Bldg., Oakland.

General Construction—H. J. Christensen, Ray Bldg., Oakland.

Structural Steel—Pacific Coast Engineering Co., foot of 14th St., Oakland.

Contract Awarded. WAREHOUSE Cost, \$25,000 SACRAMENTO, Sacramento Co., Cal. Sixteenth and B Streets.

Public beam cleaning warehouse (80x320 feet; wood frame, concrete floors, corrugated iron covering, steel sash).

Owner—A. R. Meister, 1204 39th St., Sacramento.

Private plans. Contractor—Campbell Constr. Co., 800 R St., Sacramento.

Construction will begin immediately.

Plans Completed. CREAMERY Cost, \$10,000 OAKLAND, Alameda Co., Cal. NE McAuley and Telegraph Ave.

One-story brick creamery. Owner—Edna Grant Shuey, 2733 Benvenue Ave., Berkeley.

Architect—Guyvone Officer, Hotel Claremont, Berkeley.

Bids Opened—Held Under Advisement. LAUNDRY Cost, \$30,000 SAN FRANCISCO. Heron Street.

Two-story reinforced concrete laundry. Owner—Amalgamated Laundry Co., 385 Eighth St.

Architect—Hyman & Appleton, 68 Post Street.

Sut-Bids Wanted. STATION BLDG. Cost, \$— LIVERMORE, Alameda Co., Cal. One mile west of Livermore.

Highway Maintenance Station, consisting of Superintendent's cottage; combination woodshed and garage; blacksmith shop, septic tank and clothes line posts.

Owner—State of California (State Highway Commission).

Engineer—J. H. Skeggs, district engineer, State Highway Commission, 211 State Bldg., San Francisco.

The work of this contract comprises excavation, concrete and masonry work, carpentry and millwork, lathing and plastering, sheet metal work, painting, plumbing, heating and electrical installations. Sullivan and Sullivan, 3927 39th Ave. Oakland, are figuring this job, and would like sub-bids on all portions of the work.

CHICO, Butte Co., Cal.—Plans for a cannery to cost \$100,000 are underway here, the project being planned by a recently formed corporation known as the Western Canning Company, of which R. M. DeWoody is president.

A contract to erect a plant at a cost of \$65,000 is reported let to Malrey-Conners Company of Sacramento. The company is negotiating with the city for a site on 17th St. bet. Cedar and Walnut.

Bids Wanted—To Close July 6, 2 P. M. SHED Cost, \$— LIVERMORE, Alameda Co., Cal.

Tool shed. Owner—City of Alameda.

City Engineer—L. E. Wright.

Plans and specifications obtainable from E. G. Still, City Clerk. Certified check of 10% required, payable to city clerk.

GARAGES AND SERVICE STATIONS

Contract Awarded.
AUTO BLDG. Cost, \$250,000
LOS ANGELES, Calif. NW Wilshire Bldg. and Miriposa Ave.
 Five-story and basement class automobile building (140x200-ft. steel frame, stone facing).
 Owner—E. L. Cord.
 Architect—Albert C. Martin, Higgins Bldg., Los Angeles.
 Contractor—Lynch Cannon Eng. Co., Chapman Bldg., Los Angeles.

Contract Awarded.
SERVICE STATION Cost, \$10,000
GRASS VALLEY, Nevada Co., Cal.
 Service station and equipment (steel frame construction).
 Owner—Standard Oil Co., 225 Bush St., San Francisco.
 Plans by Owner.
 Contractor—Lindgren & Swinerton, 1726 34th St., Sacramento.
 Steel frame erected by owner.

GOVERNMENT WORK AND SUPPLIES

SAN FRANCISCO—Pacific Painting & Decorating Co., Oakland, at \$248.75 were awarded the contract by Public Works Officer, 12th Naval District, 100 Harrison St., for refinishing office furniture at the 12th Naval District Staff Headquarters.

SAN FRANCISCO—Peter Charbeneau, at \$625 submitted lowest bid to Constructing Quartermaster, Fort Mason, to install 11 coal burning heaters and furnish and install ten radiators in officers' quarters at Fort Baker.

Following is a complete list of bids:
 Peter Charbeneau \$ 625
 C. Peterson 639
 F. R. Smith 659
 A. G. Alwood 765
 F. B. Powell 750
 George Ward 976
 Fred. W. Snook 1,096
 Sausalito Hdq. & Pllg. Co. 1,485
 Bids held under advisement.

SAN FRANCISCO—Until June 25, 11 A. M., bids will be received by Office Constructing Quartermaster, Fort Mason, to repair East Garrison Wharf at Fort McDowell, California. Specifications and further information available from above.

OAHU, Hawaii—Following is a list of the low bids received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for the development of the Naval ammunition depot at Oahu, Hawaii. The project covers the construction of 131 buildings, approximately 11 1/2 miles of railroads, 14 1/2 miles of paved roads and electrical, telephone and water supply systems. The following will enter into the work: Concrete construction, steel windows, metal doors, marble and tile work, composition floors, wood framing and finish, structural steel, asbestos shingle, steel, insulated and lighting protection and plumbing and electrical work:
 Thomas Haverly Co., 316 E 8th St., Los Angeles \$2,018,125
 Mitty Bros. Const. Co., 412 W 8th St., Los Angeles 2,116,000
 Kenneth Coltrone, Inc., Pasadena 2,126,970

Bids Wanted—To Close June 29, 10:30 A. M.
STABLES Cost, \$24,000
MONTEREY PRESIDIO, Monterey Co., Calif.
 Two frame stables with concrete floors (fire resisting roofs).
 Owner—United States Government.
 Plans by Constructing Quartermaster, Monterey.

Plans obtainable from constructing quartermaster upon deposit of \$5, returnable. Certified check of 10% required.

SAN FRANCISCO—Healy-Tibbitts Construction Co., 64 Pine Street, at \$2,300 submitted lowest bid to Public Works Officer, 12th Naval District, 100 Harrison St., for improvement to water front at the Receiving Ship Station, Yerba Buena Island, San Francisco Bay, involving repairs to the sea wall.

Only other bid submitted by M. B. McGowan at \$2,762. Bids under advisement.

Commissioned To Prepare Plans.
ADDITON Cost, \$50,000
SAN FRANCISCO, Seventh and Mission Streets.
 Four-story class A addition to post office.
 Owner—United States Government.
 Architect—George Kelham, 315 Montgomery Street.

June 18, 1931
LOW BIDDERS
PEARL HARBOR, T. H.—Following is list of three low bids received by Bureau of Yards and Docks, Navy Department, Washington, D. C., under Spec. No. 6271 to construct submarine escape training tank at the Naval Operating Base (Submarine Base), Pearl Harbor, T. H. The work includes a structural steel tank, and equipment house at the base of and adjoining the tank, and a loft building at the top of the tank:
 John Hansen, Honolulu \$62,500
 Walker & Ohland, Honolulu 65,000
 English Const. Co., New York 67,000

June 12, 1931
Additional Sub-Contracts Awarded.
POSTOFFICE Cont. price, \$545,200
OAKLAND, Alameda Co., Calif., 12th, 13th, Alameda and Jackson Sts.
 Superstructure or class A postoffice (terra cotta exterior).
 Owner—United States Government.
 Plans by Supervising Architect, Treasury Dept., Washington, D. C.
 Contractor—K. E. Parker, 135 South Park St., San Francisco.
Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.
Terrazzo Work—Consolidated Terrazzo Co., Claus Spreckles Bldg., San Francisco.
Plaster—Jesse Shay, 725 Tehama St., San Francisco.
Finish Hardware—Associated Hardware Co., 3560 San Pablo Avenue Oakland.
Block Flooring—Carter - Bloxmond Flooring Co., Kansas City.
Roofing—Slate Roofing Co., 4128 Gilbert St., Piedmont.

As previously reported, structural steel awarded to Judson Pacific Co., 608 Mission St., San Francisco; heating to J. H. Pinkerton, 927 Howard St., San Francisco; plumbing to J. A. Fazio, 402 Castro St., Oakland; terra cotta to N. Clark & Sons, 116 Natoma Street, San Francisco; brick work to White & Gloor, Monadnock Bldg., San Francisco; aluminum work, steel windows and hollow metal doors to A. H. Meyn Co., 163 2nd St., San Francisco; marble to Jos. Musto Sons-Keenan Co., 625 North Point St., San Francisco; steelwork, Steelcraft Building Co., Monadnock Building, San Francisco; plumbing to A. A. Zelnisky, 4420 California St., San Francisco; ornamental iron to Liberty Ornamental Iron W'ks, 21st and Filbert Sts., Oakland.

LIVERMORE, Alameda Co., Cal.—Until July 6, 2:30 P. M., bids will be received by Supervising Superintendent of Construction, U. S. Veterans' Hospital at Palo Alto, for additions and revisions to underground heating system at the U. S. Veterans' Hospital at Livermore. This work will

consist of uncovering existing steam and hot water pipes, etc., constructing new concrete and vitrified clay pipe tunnels, as required, installing new steam supply and return pipes, including traps, valves, fittings, etc., constructing drains, removing old covering now in place, applying new non-conducting covering, cleaning, cutting, patching, painting, and back-filling in accordance with Drawing No. W123-1, and specifications dated June 15, 1931. Further information obtainable from above.

PALO ALTO, Santa Clara Co., Cal.—Until June 30, 2:30 P. M., bids will be received by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, for drilling, developing and test deep well at the Veterans' Hospital Pumping Site No 4 at Palo Alto. Specifications and further information obtainable from above.

Low Bidders.
PAINTING Cost, \$—
SAN FRANCISCO, Letterman Hospital.
 Paint exterior of all hospital buildings at Letterman.
 Owner—United States Government.
 Plans by Constructing Quartermaster, Fort Mason.
 (1) Administration Bldg. No. 1, Patterson Bros., 494 36th St., Oakland, at \$400.
 (2) Nurses' Home Bldg. No. 2, E. Anderson, 542 Natoma St., \$150.
 (3) Post Exchange and Hall, Edg. No. 28, Patterson Bros., \$216.50.
 (4) Officers' Ward, A-1 Bldg. No. 54, Patterson Bros., \$212.
 (5) Nurses' Dormitory, Bldg. No. 56, R. P. Paoli, 3159 Fillmore St., \$282.
 (6) Out-Patient Service, Bldg. No. 42, Peterson Bros., \$102.
 (7) Receiving Ward and Ward K-3, Edg. No. 19, E. Anderson, 542 Natoma St., \$165.
 (8) Wards K-1 and K-2, Bldg. No. 61, Patterson Bros., \$220; Klugman & Zules, \$220.
 (9) Guard Room, Bldg. No. 20, Patterson Bros., \$50.
 (10) Wards B-1 and B-2, Bldg. No. 3 R. P. Paoli, \$78.
 (11) Wards D-1 and D-2, Bldg. No. 5, R. P. Paoli, \$78.
 (12) Ward E-1 and E-2, Bldg. No. 6, R. P. Paoli, \$78.
 (13) Wards L-1 and L-2, Bldg. No. 17, R. P. Paoli, \$78.
 (14) Wards N-1 and N-2, Bldg. No. 15, R. P. Paoli, \$78.
 (15) Ward P-1, Bldg. No. 13, A. B. C. Painting Co., 340 Gutenberg St., \$180.
 (16) Roentgenology Laboratory Bldg. No. 27, Patterson Bros., \$130.
 (17) Ward R-1 and Bakery Bldg. No. 12, R. P. Paoli, \$53.
 (18) Roentgen Therapy Bldg. No. 51, R. P. Paoli, \$107.
 (19) Kitchen Bldg. No. 9, Klugman & Zules, \$100.
 (20) Dining room bldg. No. 10, Patterson Bros., \$282.
 (21) Operating Pavilion Bldg. No. 11, Patterson Bros., \$100.
 (22) Solarium, Surgical Side Bldg. No. 52, R. P. Paoli, \$48.
 (23) Solarium Medical Side Bldg. No. 52, R. P. Paoli, \$48.
 (24) Storehouse and Patients' Barge Bldg. No. 8, Patterson Bros., \$110.
 (25) Physiotherapy Ward Bldg. No. 57, R. P. Paoli, \$107.
 (26) Physiotherapy Ward Bldg. No. 58, R. P. Paoli, \$49.
 (27) Physiotherapy and Ward N-1 Bldg. No. 59, R. P. Paoli, \$43.
 (28) Isolation Ward G-1 Bldg. No. 55, R. P. Paoli, \$212.
 (29) Storehouse A Bldg. No. 26 (except roof), Patterson Bros., \$210; A. B. C. Painting Co., \$210.
 (30) Disinfecting & Sterilizing Ward Bldg. No. 24, Pacific Painting & Decorating Co., \$268.

- (31) Phsyehopathic Ward S-1 Bldg. No. 62, Pacific Painting & Decorating Co., \$128; Patterson Bros., \$128.
 - (32) Detention Ward S-2 Bldg. No. 35, Patterson Bros., \$150; R. P. Paoli, \$150.
 - (33) Q. M. Shops Bldg. No. 41, Patterson Bros., \$92.
 - (34) Storehouse R Medical Supplies Bldg. No. 46, Patterson Bros., \$132.
 - (35) Commanding Officers' Quarters Bldg. No. 21, R. P. Paoli, \$170.
 - (36) Officers' Quarters Bldgs. 22 and 23, Jos. J. Burdon, Oakland, \$205.
 - (37) Officers' Quarters Bldgs. No. 29 and 30, A.B.C. Painting Co., \$196.
 - (38) Officers' Quarters Bldgs. No. 31 and 32, A.B.C. Painting Co., \$174.
 - (39) Officers' Quarters Bldg. No. 33 and 34, A.B.C. Painting Co., \$174.
 - (40) Corridors (Lattice work only) Bldg. No. 36, E. Anderson, \$130.
- Bids held under advisement.

HALLS AND SOCIETY BUILDINGS

Contract Awarded.
ALTERATIONS Cost, \$—
BURLINGAME, San Mateo Co., Cal.
 Remodel one-story frame and stucco clubhouse.
 Owner—County of San Mateo (American Legion).
 Architect—E. L. Norberg, 50 Market St., San Francisco.
Contractor—Ingvard Sorenson, 11 1/2 Lincoln Ave., Burlingame.

Plans Completed—Will Ask Bids July 1
MEMORIAL BLDG. Cost, \$17,000
FORT BRAGG, Mendocino Co., Cal.
 One-story concrete Veterans' Memorial Building (concrete walls, terra cotta tile roof, maple floors, furnace heat).
 Owner—County of Mendocino.
 Architect—F. L. Dragon, Mercantile Bank Bldg., Berkeley.

Taking Sub-Bids.
LODGE BLDG. Cost, \$30,000
MOUNTAIN VIEW, Santa Clara Co., Cal.
 Two-story steel frame and reinforced concrete lodge building (tile roof; auditorium to seat 600; lounging rooms; gas heating).
 Owner—Leon Roberts Post, American Legion, % Jas. M. Graham, Jr., Architect—A. A. Cantin, 544 Market St., San Francisco.
Contractor—Carl Lindholm & Sons, Chiquita Ave., Mountain View.
 General contractor still taking sub-bids. Owner taking bids for electrical work.

Preparing Working Drawings.
MEMORIAL BLDG. Cost, \$60,000
ALEANY, Alameda Co., Cal.
 American Legion Memorial Building (2-story reinforced concrete bldg., Spanish type, tile roof, ornamental iron, gas heating).
 Owner—County of Alameda, George E. Gross, county clerk.
 Architect—H. H. Meyers, Kohl Bldg., San Francisco.

Plans Being Prepared.
CLUB TAFT, Kern Co., Cal. Taft-Maricopa Highway.
 Frame and stucco club with concrete basement.
 Owner—Petroleum Club of Taft.
 Architect—Chas. Biggar, Haberfeld Bldg., Bakersfield.
 It will contain a ballroom, kitchen and locker and shower rooms; concrete basement story construction, frame superstructure, texture plaster exterior and interior, asbestos shingle roofing, cooling, ventilating and heating apparatus.

HOSPITALS

Contract Awarded.
COMMISSARY Cont. price, \$19,870
ELDRIDGE, Sonoma Co., Cal. State Hospital Grounds.
 One-story brick commissary building. Owner—State of California.
 Plans by State Department of Public Works, Division of Architecture, Geo. B. McDougall, state architect, Public Works Bldg., Sacramento.
Contractor—William Splovek, Hobart Bldg., San Francisco.
 Sub-bids are in and will be awarded shortly.
 Completing Working Drawings.
ADDITIONS Cost, \$242,000
BERKELEY, Alameda Co., Cal.
 Additional units at State School for Deaf (primary school, 20 rooms. reinf. conc. const., tile roof, steam heating system from adjoining plant, ornamental iron, all usual school equipment).
 Owner—State of California.
 Architect—Charles Roeth, 1404 Franklin St., Oakland.
 Bids will be advertised some time early next month.

Terrazzo Contract Awarded.
ADDITIONS Cont. Price, \$269,837
SAN FRANCISCO, Potrero Ave., bet. 20th and 23rd Sts.
 Class A additions on roof of San Francisco Hospital (4 wards; brick walls, tile roofing).
 Owner—City and County of San Francisco.
 Architect—Alfred I. Coffey and Martin J. Rist, associated, Pheban Bldg., San Francisco.
Contractor—Barrett & Hilt, 918 Harrison St., San Francisco.
Terrazzo — Henry Gervais Co., 1727 Mission St., San Francisco.
 Other sub-contracts reported May 13.

SACRAMENTO, Cal.—Identical bids, at \$500, were submitted by John P. Hunt, Sacramento, and Gene Kenyon, Sacramento, to County Engineer Chas. Deterding, Jr., for construction of a storage vault for X-ray films at the county hospital. Bids held under advisement.

HOTELS

Sub-Bids Being Taken.
REMODELING Cost, \$30,000
SAN FRANCISCO, Grant Ave. and California Street.
 Remodeling three upper floors of 4-story building for hotel (55 rooms, 20 baths).
 Owner—S. McVine.
 Lessee—Whitfield.
 Plans by G. G. Shimamoto, 1551 Laguna St., San Francisco.
Contractor—Peter Sartorio, 2140 Greenwich St., San Francisco.

POWER PLANTS

LOS ANGELES, Cal.—Arthur Strassburger, president of the municipal water and power commission, has been authorized to formulate a financial plan and present the same to the board to provide finances for the construction of a steam electric generating plant and transmission line from Boulder Canyon without resort to a bond issue. The board members state that they feel that private capital can be obtained at this time.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

SANTA BARBARA, Calif.—Until 10 A. M., July 6, bids will be received by the Santa Barbara county supervisors for furnishing and installing jail cells and other work in the Santa

Barbara county house. Plans may be obtained from the William Mosser Co., architect, 631 Market St., San Francisco, upon deposit of \$50. Plans are on file for examination at the architect's Santa Barbara office, 121 East Annapamu St. Cash, bond or certified check for 10% required. D. F. Hunt, county clerk. About 50 prisoners will be provided for. Pauly Jail Building Company was awarded contract several months ago for the first tier of cells to be installed in the building.

SAN QUENTIN, Marin Co., Calif.—Golden Gate Iron Works, 1541 Howard St., San Francisco, at \$11,055 awarded contract by State Purchasing Department, Sacramento, for furnishing miscellaneous iron and structural steel at the dining hall at the San Quentin Prison.

Plans Completed.
CITY HALL Cost, \$400,000
BEVERLY HILLS, Los Angeles Co., Cal.
 Three-story reinforced concrete city hall (8-story tower).
 Owner—City of Beverly Hills.
 Architect—Koerner & Gage, 468 N. Camden Dr., Beverly Hills.
 Bids will be asked immediately.

WOODLAND, Yolo Co., Cal.—Plans and specifications will soon be drawn up for a new city hall and fire headquarters, according to a vote passed by the City Council.

Plumbing, Heating and Ventilating Contracts Awarded.
LEGION BLDG. Cost, \$2,500,000
SAN FRANCISCO, Civic Center.
 Four-story and basement concrete class A Legion Building.
OPERA HOUSE Cost, \$2,500,000
 Six-story class A opera house, seating capacity, 4000; standing room, 500.
 Owner—City and County of San Francisco (S. F. War Memorial).
 Architect—G. A. Lansburgh, 140 Montgomery St., and Arthur Brown, 251 Kearny St.
 Mgrs. of Const.—Lindgren & Swinerton, Inc., 225 Bush St.
Plumbing
 Anderson & Rowe, 45 Belcher St.

Heating and Ventilating
 Jas. A. Nelson, 10th and Howard Sts.
 Complete list of bids published June 10th. Electrical bids will be taken in one week.

Preparing Plans.
LIBRARY Cost, \$60,000
SAN FRANCISCO, 37th Avenue.
 Two-story reinforced concrete branch library (tile roof, ornamental iron, hot air heat, oil burner).
 Owner—City and County of San Francisco.
 Architect—John Reid, Jr., 405 Montgomery Street.
 Engineer—C. H. Snyder, 251 Kearny Street.

Bids Wanted—To Close June 29 & P. M.
FIRE HOUSE Cost, \$18,000
OROVILLE, Butte Co., Cal.
 One-story brick fire house.
 Owner—City of Oroville.
 Architect—Chester Cole, First Nat'l Bank Bldg., Chico.
 Following is a complete list of bids previously rejected:
 Gene Kenyon, Sacramento..... \$15,566
 David Nordstrom, Oakland..... 16,994
 A Plage, Oroville..... 16,955
 Wm. Schalz, Chico..... 16,907
 Wm. Hibert, Oroville..... 16,956
 J. Fry, Oroville..... 17,323
 Chas. Unger, Sacramento..... 17,614
 M. Stram, Oroville..... 17,661

Sub-Contracts Awarded.
WARD UNIT Cost, \$60,000
TALMADGE, Mendocino Co., Cal.
 Two-story concrete Ward Bldg. No. 14.
 Owner—State of California.

Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.

The building is two stories with concrete floors and walls, concrete and tile partitions, wood roof construction and tile roof. The total floor area is approximately 15,500 sq. ft.

Structural Steel and Miscellaneous Iron—Liberty Ornamental Iron Works, 2937 Filbert St., Oakland.
Reinforcing Steel—Pacific Coast Steel Co., 215 Market St., San Francisco
 As previously reported; heating awarded to Geo. C. Pell, 1220 E. 14th St., Oakland; electrical work to Roy M. Butcher, 1620 Sherwood St., San Jose; plumbing to J. A. Fazio, 402 Castro St., Oakland.

POLICE STATION Cost, \$60,000
 SAN FRANCISCO, Golden Gate Park. One-story reinforced concrete police station.

Owner—City and County of San Francisco (S. J. Hester, Sect'y., Board of Public Works).

Architect—Weeks & Day, Financial Center Bldg., San Francisco.

General Work

W. Spivock, Hobart Bldg.	335,443
H. L. Petersen	39,895
J. H. Johnson	39,354
Young & Horstneyer	39,380
Caull Bros.	40,374
V. G. Davidson	40,356
H. H. Larsen	40,742
F. J. Reilly	40,873
MacDonald & Kahn	42,499
Reilly & Grace	42,977
A. Nelson	43,270
Mission Concrete Co.	43,363
N. H. Sjoberg	43,490
Larsen & Larsen	44,500
C. D. De Velbiss	44,570
Mahony Bros.	44,600
F. C. Amoroso	45,890

Plumbing and Mechanical

O'Mara & Stewart, 218 Clara St.	\$5777
O. Aaron	6095
Scott Co.	6277
M. Vensano	6414
F. W. Snook	6485
Higgins & Kraus	6824
H. Lawson	6880
Anderson & Rowe	6884
W. J. Forster	7160
A. Coleman	7194

Electrical Work

W. B. Baker, 270 6th St.	\$1876
Atlas Elec. Co.	2018
R. Flatland	2137
E. F. Dowd	2235
Central Elec. Co.	2290
Decker Elec. Co.	2478
G. H. Armstrong	2524

Bids held under advisement.

Bids Wanted—To Close June 24, 2 P. M.
FIRE HOUSE Cost, \$45,000
 SAN FRANCISCO. Lombard Street bet. Broderick and Baker.

Owner—City and County of San Francisco (S. J. Hester, secretary, Board of Public Works).
 Architect—W. E. Baumberger, 544 Market Street.

The structure will house an engine company, truck company, mechanical company and hose tender.

Bids will be called for:
 General construction, est. cost, \$41,750
 Electrical work, est. cost, \$2500.
 Mechanical work, est. cost, \$5250.

RESIDENCES

Lumber Contract Awarded.
 RESIDENCE Cost, \$15,000
 SAN FRANCISCO. Wawona and Vicente Avenues.

Two-story and basement frame and stucco residence (7 rooms, 3 baths, double garage, tile and composition roof, hardwood floors, gas hot air heating and tiled baths).

Owner and Builder—S. R. Anderson, 1433 Seventh Avenue.
 Private plans.
 Lumber—Sudden Lumber Co., Evans and Quint Sts.

Sub-Contracts Awarded.

RESIDENCE Cost, \$9000
 BURLINGAME, San Mateo Co., Calif. Montero Avenue.

Two-story and basement frame and stucco residence.

Owner—Mrs. L. C. Turner, 1830 7th Ave., Burlingame.

Contractor—Not Given.

Architect—H. K. Henderson, 20 Avon Road, Oakland.

Millwork—Sunset Lbr. Co., 400 High St., Oakland.

Plastering—A x e l Sommarstrom, 109 Sunnyside Ave., Oakland.

Painting—Frank Jewel, 351 Davis St., Oakland.

Cement—San Mateo Concrete Co., San Mateo.

Roofing—Baer Bros., 423 Villa Terrace, San Mateo.

Tile—Malott & Peterson, 2221 20th St., San Francisco.

Hardwood Flooring—Inlaid Floor Co., 1213 Shafter, San Mateo.

Heating—Garbey Sheet Metal Works, San Mateo.

Contract Awarded.

RESIDENCES Cost, \$17,500
 PALO ALTO, Santa Clara Co., Calif. Location withheld.

Two-story and basement frame and stucco residence (7 rooms).

Owner—Ferdinand Bendheim, Stanford Court Apts., San Francisco.

Architect—H. H. Gutterston, 526 Powell St., San Francisco.

Contractor—D. B. Gladstone, 557 Market St., San Francisco.

Sub-Bids Wanted.

RESIDENCE Cost, \$6000
 OAKLAND, Alameda Co., Cal. Idora Park Tract.

One-story and basement frame and stucco residence.

Owner and Builder—John Lehman, 959 Appgar St., Oakland.

Private Plans.

Other contractors who expect to build in the tract include: David Kesti, 2217 Broadway St., Oakland; Mortensen Bros., 5664 Broadway, Oakland; Houses now under construction in the tract are being built by: Mathey Klein, 5964 Channing Way, Berkeley; Nylander Bros., 633 Montclair Ave., San Leandro; Edward Larmer, 90 Fairview Ave., Oakland and C. J. Frank.

June 18, 1931

Postponed For This Year.

RESIDENCE Cost, \$10,000
 BERKELEY, Alameda Co., Cal. St. Mary Magdalene Parish.

Two-story and basement frame and stucco residence for Nuns.

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.

Architect—Arnold Constable, 580 Market St., San Francisco.

Sub-Bids Being Taken.

RESIDENCE Cost, \$6000
 BERKELEY, Alameda Co., Cal. No. 651 Santa Rosa Ave.

Two-story and basement frame and stucco residence (10 rooms, 3 baths, separate garage).

Owner—M. S. Barnett, 653 Colusa Ave., Berkeley.

Plans by E. Reimlinghaus.

Contractor—E. Reimlinghaus, 22 Claremont Crescent, Berkeley.

Sub-Bids Wanted.

RESIDENCE Cost, \$—
 HILLSBOROUGH, San Mateo Co., Cal. South Down and Black Mountain Road.

Two-story and basement frame and stucco residence (12 rooms and 6 baths).

Owner and Builder—A. E. Albertone, 167 40th St., Oakland.
 Plans by T. Moore, 53 Lake Ave., Piedmont.
 Steel sash, hot air heating system, tile roof. Sub-bids wanted on all portions of the work.

Contract Awarded.

RESIDENCE Cost, \$10,000
 SAN JOSE, Santa Clara Co., Calif. Emory Street.

Two-story and basement frame and stucco residence (8 rooms and 2 baths; tile roof, hot air heat).

Owner—L. Chavira.

Architect—Chas. S. McKenzie, Twoby Bldg., San Jose.

Contractor—Wm. Caldwell, 1241 Hedding St., San Jose.

Contract To Be Awarded.

RESIDENCE Cont. price, \$5283
 BERKELEY, Alameda Co., Cal. 1½-story and basement frame and stucco residence (shingle roof).

Owner—Andrew S. Vinzent.

Architect—Wm. E. Schirmer, 700 21st St., Oakland.

Contractor—Clarence Thrans, 28 Home Place, Berkeley.

Contract Awarded.

RESIDENCE Cost, \$10,000
 OAKLAND, Alameda Co., Cal. South Harwood E Ross St.

Two-story frame and stucco residence (7 rooms).

Owner—J. H. Coupin, 376 60th Street, Oakland.

Architect—A. W. Smith, 1540 San Pablo Ave., Oakland.

Contractor—C. D. Rich, 4627 Fleming Ave., Oakland.

Sub-Bids Being Taken.

RESIDENCES Cost each, \$6000
 SAN FRANCISCO. Lawton St. E 22nd Avenue.

Two 1-story and basement frame and stucco residences.

Owner and Builder—San Francisco Home Bldg. Co., 2742 Mission St.

Architect—Chas. Strothoff, 2274 15th Street.

Plans Being Figured—Bids Close June 24.

RESIDENCE Cost, \$—
 OAKLAND, Alameda Co., Cal. Claremont District.

Two-story and basement frame and stucco residence (9 rooms and 3 baths; hardwood floors, tile baths, gas hot air furnace, electric refrigerator).

Owner—W. S. Andrews, 260 California St., San Francisco.

Architect—Raymond Jeans, 605 Market St., San Francisco.

Following contractors have secured plans:

T. D. Courtright, 5098 Manilla Ave., Oakland.

Wm. Livingston & Son, 1152 Euclid Ave., Berkeley.

Edward L. Paige, 5051 Oak Grove Ave., Oakland.

A. H. Feasey, 210 Clara St., San Francisco.

Clinton-Stephenson Constr. Co., Monadnock Bldg., San Francisco.

Connor & Connor.

Albert H. Haskell, 255 Ridgeway, Berkeley.

E. F. Henderson, 2118 Shattuck Ave., Berkeley.

Plans Being Figured By Selected List of Contractors.

RESIDENCE Cost, \$—
 HILLSBOROUGH, San Mateo Co., Cal. Two-story and basement frame and stucco residence (12 rooms).

Owner—A. G. Simpson, Hillsborough.

Architect—W. W. Wurster, 260 California St., San Francisco.

Plans will be ready for bids in about two weeks.

Sub-Bids Wanted.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. Dimond Ave. N Hopkins St.

One-story and basement frame and stucco residence (6 rooms),
Owner and Builder—Major M. Bommer,
3657 Dimond Ave., Oakland.
Plans by O. W. Degen, Fort Mason, San Francisco.

Lumber—E. K. Wood Lumber Co., Frederick and King Sts., Oakland.
Sub-bids are wanted on plastering, plumbing, sheet metal, tile, brick, etc.

Contract Awarded.
RESIDENCE Cost, \$50,000
BEVERLY HILLS, Los Angeles Co., Calif.

Two-story and basement brick veneer residence (92x55 feet).
owner—Richard B. Fudge.
Architect—Roland E. Conte, Architects Bldg., Los Angeles.
Contractor—Eric Barclay, 246 26th St., Santa Monica.

Bids Opened—Held Under Advice.
RESIDENCE Cost, \$6500
LODI, San Joaquin Co., Cal.
1½-story frame and stucco residence (6 rooms, shingle roof, gas heating system).

Owner—Withheld.
Architect—V. Galbraith, Elks Building, Stockton.
Low Bidder—Frey, Bender, Frey, Lodi, at \$6598.

Other bids submitted were:
P. Hanson, Lodi, \$6666
H. W. Johnson, Stockton, 6750
John Hachman, Stockton, 6800
Cary Bros., Stockton, 6806
John Cavanaugh, Stockton, 6970
H. Belman, Stockton, 7294
Bids are held under advisement.

Sub-Contracts Awarded.
RESIDENCES Cost each, \$5000
BERKELEY, Alameda Co., Cal. North 56th St. E Shattuck Ave.

Two-story frame and stucco residence (6 rooms) and 1-story and basement frame and stucco residence (5 rooms).

Owner and Builder—Edward W. Larmer, 30 Fairview Ave., Oakland.
Architect—Not Given.
Concrete—F. Salamid, 5350 Manila Ave., Oakland.

Lumber—Sunset Lumber Co., 400 High St., Oakland.
Wiring—Fred Schmidt, 430 Moss Ave., Oakland.

Sheet Metal—H. Monsen & Son, 2480 Champion St., Oakland.

Heating—Pacific Gas Appliance Co., 19th and Market Sts., Oakland.

Flooring—Inland Floor Co., 4067 Watts St., Emeryville.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. Monadnock Way W 6th Ave.

One-story and basement frame and stucco residence (5 rooms).
Owner and Builder—Robert Trimlett, 4249 Fleming Ave., Oakland.

Sheet Metal—Frank Christoph, 3441 Salisbury St., Oakland.

Millwork, Sash—Melrose Lumber and Supply Co., 1201 46th Ave., Oakland.

Brick—Wm. Johnson, Congress Ave., Oakland.

Painting—R. E. O'Brien, 2151 Buena Vista Ave., Alameda.

Heating—Atlas Heating and Ventilating Co., 1451 32nd St., Oakland.

Shingling—Edmund Bardellini, 3700 Greencare Road, Oakland.

Plastering—H. Varner, 4708 Allendale Ave., Oakland.

Plans Being Prepared.
RESIDENCE Cost, \$5500
MILL VALLEY, Marin Co., Cal.

One-story and basement frame and stucco residence (5 rooms, tile roof, gas furnace, tile baths).

Owner—Ernest Bauer.
Architect—Walter Falch, Hearst Bldg. San Francisco.
Ready for bids within one week.

Sub-Bids Wanted.
RESIDENCE Cost, \$6000
OAKLAND, Alameda Co., Cal. Clemens Road.

One and one-half-story frame and stucco residence (5 rooms) shingle roof, gas heating.

Owner—Sven Carlsson.
Architect—Paul V. Tuttle, 2911 Santa Clara Ave., Alameda.
Contractor—Gaubert Brothers, 4735 Brookdale Ave., Oakland.

Sub-bids are desired on all portions of the work

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$14,000
BERKELEY, Alameda Co., Cal. El Camino Real near Uplands.

Two-story and basement frame and stucco residence (Spanish tile, tile roof, gas hot air heating system, tile baths).

Owner—Dr. Max Kameny.
Architect—Edwin L. Snyder, 2101 Addison St., Berkeley.
Contractor—S. M. Shapiro, 1245 Berkeley Way, Berkeley.

Plumbing—Suendermann Plumbing Co., 921 University Ave., Berkeley
Tile—Superior Tile Products Co., 3743 Broadway, Oakland.

Lumber—Tilden Lumber Co., University Ave., Berkeley.
Sash and Doors—Western Door & Sash Co., 5th and Cypress Sts., Berkeley.

As previously reported, concrete awarded to Chas. Ensor, 2708 10th St., Berkeley; plastering to Carl Rasmussen, 6801 Meraga Ave., Oakland; brick to O. P. Reistrup, 3104 Ellis St., Berkeley; roofing to Masterson Tile & Roofing Co., 1 20th St., Richmond; sheet metal to Bertel Mork, 1606 10th St., Berkeley.

Contract Awarded.
RESIDENCE Cost, \$8500
MODESTO, Stanislaus Co., Cal.
One-story and basement frame and stucco residence.

Owner—Paul Cooper.
Architect—G. N. Hilburn, Elks Bldg., Modesto.
Contractor—M. F. Varozza, 1011 5th St., Modesto.

Preparing Plans.
RESIDENCE Cost, \$10,000
SONORA, Tuolumne Co., Cal.

Two-story and basement frame and stucco residence (Spanish style; 8 rooms, 2 baths; hot air heating, hardwood floors, tile roof, ornamental iron, tile baths).

Owner—W. L. Price, Sonora.
Architect—G. N. Hilburn, Elks Bldg., Modesto.

Bids Opened.
RESIDENCE Cost, \$15,000
PALO ALTO, Santa Clara Co., Calif. Location Withheld.

Two-story and basement frame and stucco residence (7 rooms).
Owner—Ferdinand Bendhelm, Stanford Court Apts., San Francisco.

Architect—H. H. Gutterman, 526 Powell St., San Francisco.

Low Bidder—D. B. Gladstone, 557 Market St., San Francisco.

The Minton Co., Front St., Mountain View, \$15,252, submitted the low bid if certain alternates are accepted. Architect announces choice will be made between the two today.

Sub-Contracts Awarded.
RESIDENCE Cost, \$11,500
SAN MATEO, San Mateo Co., Calif. San Mateo Park.

Two-story and basement frame and stucco residence (8 rooms, 3 baths and double garage).

Owner—D. R. Edwards.
Architect—B. G. McDougall, 353 Sacramento St., San Francisco.
Contractor—E. T. Leiter and Son, 811 37th St., Oakland.

Lumber—McCormick Lumber Terminal 1401 Army St., San Francisco.

Millwork—Oakland Planing Mill, Inc., 2nd and Washington Sts., Oakland

Concrete and Excavating—J. H. Fitzmaurice, 354 Hobart St., Oakland.

Plumbing—W. H. Picard, Inc., 6556 College Ave., Oakland.

Brick—Tom Beebe, 1650 Tyler Street, Berkeley.

Electric Work—Spott Elec. Co., 2095 Broadway, Oakland.

Sheet Metal and Heating—East Bay Sheet Metal Works, 1101 Market St., Oakland.

Preparing Plans.
RESIDENCE Cost, \$5500
KENTFIELD, Marin Co., Cal.

One-story and basement frame and stucco residence (5 rooms, tile roof, gas furnace, tile baths).

Owner—Ernest Bauer.
Architect—Walter Falch, Hearst Bldg., San Francisco.

Sub-Bids Wanted.
RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. 140 Southhampton Road.

Two-story and basement frame and stucco residence (3 rooms, 3 baths, shingle roof, hardwood floors, oil furnace, tile sun room floor).

Owner—H. C. Fisher, 701 Arlington Ave., Berkeley.

Plans by Geo. L. Lane, 909 Spruce St., Berkeley.

Contractor—Bidell & Lane, 909 Spruce St., Berkeley.

Bids are wanted on foundation and cement work, plumbing, heating, sheet metal, chimney and brick work, wiring, plastering, iron grill work, tile, painting and papering and hardwood.

As previously reported lumbar contract awarded to Tilden Lumber Co., foot of University Avenue, Berkeley; millwork to Western Door & Sash Co., 5th and Cypress, Oakland.

Sub-Bids Being Taken.
RESIDENCE Cost, \$55,000
HILLSBOROUGH, San Mateo Co., Cal.

Two-story and basement frame and stucco residence (14 rooms, 8 baths) (tile roof, gas heating system, tile baths and kitchen).

Owner and Builder—Lloyd Simpson, Hillsborough Blvd. and Bromfield Rd., Hillsborough.

Architect—Willis Polk Co., 277 Pine St., San Francisco.

Sub-bids are wanted on all portions of the work.

Bids Opened.
RESIDENCE Cost, \$7000
STOCKTON, San Joaquin Co., Cal.

Two-story and basement frame and brick veneer residence (English type; shingle roof, hot air heating, steel window sash).

Owner—Edward Van Vranken.

Architect—Jos. Losekann, 1218 West Harding St., Stockton.

Low Bidder—J. Vickroy, Stockton, at \$7627.

Other bids submitted were:
Pay Zinck, Stockton, \$7777
Randolph & West, Stockton, \$7843

SCHOOLS

Preparing Plans.
COLLEGE BLDG. Cost, \$15,000
RIVERSIDE, Riverside Co., Cal.
Reinforced concrete college building.

Owner—University of California.
Architect—G. Stanley Underwood, 3946 W-9th St., Riverside.

Contract Awarded.
LIBRARY Cost, \$780,000
LOS ANGELES, Los Angeles Co.,
Cal. No. 3563 New Hoover St.
Four-story Class A reinforced concrete library (171x245 feet).
Owner—University of Southern California
Architect — Cramer & Ferguson,
Rovary Bldg., Los Angeles.
Contractor—P. J. Walker Co., 117 W. Ninth St., Los Angeles.

Bids Wanted—To Close July 6, 7:30 P. M.
AUDITORIUM Cost, \$100,000
VISALIA, Tulare Co., Cal.
Auditorium, 88x134-ft.
Owner—Visalia Union High School District.
Architect—E. J. Kump, Fresno.

It will be of fireproof, reinforced concrete and steel construction and is designed in modern renaissance. The exterior will be imitation stone finish, with Italian tile roof and ornamental cast stone.
The building comprises a ground floor balcony, a stage 24 by 64 feet, equipped with a fly gallery, gridirons, scenery loft, dressing, property, paint and musicians' rooms. Pipe organ will also be installed.

Bids Wanted—To Close July 6, 7:30 P. M.
REMODELING Cost, \$10,000
VISALIA, Tulare Co., Cal.
Additions to and remodeling administration bldg. and installing heating plant.
Owner—Visalia Union High School District.
Architect—E. J. Kump, Fresno.

Contract Awarded.
SCHOOL Cost, \$60,000
STOCKTON, San Joaquin Co., Calif.
Connell and Elgin Sts.
Rough finish only for two-story brick vocational school (10 classrooms, 60x144-ft.)
Owner—Stockton City School District.
Architect—J. U. Cloudsley, Exchange Bldg., Stockton and Jos. Loeckann, 1218 W. Harding St., Stockton, associated.
Contractor—Carl Nelson, 1421 E. Channel St., Stockton.

Steel floor joists, wood stud partitions, steam heating system, built-up roof.

Following is a complete list of bids:
Carl Nelson, Stockton.....\$19,858
H. E. Vickroy, Stockton..... 20,141
Wm. Bueck, Stockton..... 20,375
C. E. Totten, Stockton..... 21,800
T. E. Williamson, Stockton..... 21,497
F. R. Zneck, Stockton..... 21,860
H. H. Henning, Stockton..... 21,980
C. H. Dodd, Stockton..... 22,100
George Roek, Stockton..... 22,219
Alfred Loek, Stockton..... 22,345
E. H. Riley, Stockton..... 22,425
Ecker & Stedmiller, Stockton..... 22,700
Wm. Spivock, San Francisco..... 23,230
Samuel Eyre, Tracy..... 23,265
W. J. Scott, Stockton..... 23,810

Bids will be called for shortly for the finishing of the building.

Bids Opened.
ADDITION Cost, \$—
SAN FRANCISCO. Scott and O'Farrell Streets.
Two-story and basement brick and steel frame addition to Girls' High School (terraces on front).
Owner—City and County of San Francisco, E. J. Hester, Sec'y., Board of Public Works.
Architect—F. H. Meyer, 525 Market St., San Francisco.

Following is a complete list of bids received:
Mahony Bros., Flood Bldg.....\$204,800
MacDonald & Kahn..... 205,999
Mission Concrete Co..... 206,253
F. C. Amoroso & Son..... 212,950
Anderson & Ringrose..... 215,900
Complete list of alternates available from this office.

Bids To Be Taken Shortly.
SCHOOL Cost, \$37,000
BERKELEY, Alameda Co., Cal. Mill via Street bet. Berryman and Eunice Streets.

One-story and basement (four-class-rooms) grammar school for Saint Mary Magdalene Parish (fireproof, reinforced concrete).
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
Architect—Arnold Constable, 580 Market St., San Francisco.
Expect to be ready for bids about June 22.

Completing Working Drawings.
GYMNASIUM Cost, \$1,000,000
LOS ANGELES, Cal. (University of California Campus).
Two one-story Class B steel and concrete gymnasium buildings (men's and women's gymnasiums).
Owner—University of California.
Architect—George Kelham, 315 Montgomery St., San Francisco.
Expect to ask bids August 15.

Sub-Bids Wanted.
ADDITION Cost, \$—
CHICO, Butte Co., Cal.
One-story brick assembly hall addition
Owner—State of California.
Plans by State Department of Public Works, Division of Architecture, Geo. E. McDougall, state architect, Public Works Bldg., Sacramento.
Contractor—A. F. Anderson, 1093 Longridge Road, Oakland.

Contractor desires subbids on painting, concrete and brick work.
As previously reported plumbing and heating awarded to W. H. Robinson, 715 W. Emerson St., Monterey Park; electrical work to Roy M. Butcher, 1029 Sherwood St., San Jose.

The addition will have pipe foundations, concrete floors, brick walls, tile partitions, concrete and wood roof construction and tile and composition roofing. It will have floor area of approximately 5664 square feet.

Contract Awarded.
SCHOOL Cont. Price, \$480
RICHMOND, Contra Costa Co., Cal
One-story and basement (two classrooms) frame and stucco school.
Owner—Sheldon School District.
Architect—James T. Narbett, 474 31st St., Richmond.
Contractor — Tandy & Theis, 1937 Gavin St., Richmond.

SAN FRANCISCO—Until June 29, 3 P. M., under Proposal No. 725, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall,

to furnish and deliver science supplies for School Department. Specifications obtainable from above office.

Plans Being Figured—Bids Close July 1, 7:30 P. M.
HEATING PLANT Cost, \$100,000
VISALIA, Tulare Co., Cal.
Additions to and remodeling main building and installing heating plant.
Owner—Visalia Union High School District.
Architect—E. J. Kump, Fresno.

Completing Plans.
ADDITION Cost, \$3500
LINCOLN, Placer Co., Cal.
One-classroom addition to one-story stucco and hollow tile school bldg.
Owner—Lincoln Elementary School District.
Architect—Stark & Flanders, Forum Bldg., Sacramento.

SAN RAFAEL, Marin Co., Cal.—Until June 25, 8 P. M., bids will be received by Oliver R. Hartzell, secretary, Board of Education, for painting the San Rafael Grammar School. Spec. obtainable from secretary.

Completing Plans.
COLLEGE BLDGS. Cost, \$200,000
SAN DIEGO, Calif. State Teachers' College.
Group of college buildings.
Owner—State of California.
Architect—Wm. H. Wheeler, California Bank Bldg., San Diego.

The group includes: physical education building to cost \$177,000; science lecture hall to cost \$16,800; store room to cost \$1200; and improvements to the grounds to cost \$10,000. An attempt is being made to procure an additional \$20,000 for the construction of a swimming pool and \$32,000 for road improvements.

Contract Awarded.
ADDITION Cont. Price, \$9846
BRENTWOOD, Contra Costa Co., Cal.
Three - classroom addition to present grammar school.
Owner—Brentwood-Deer Valley School District, C. M. Shoemaker, Clerk, Brentwood.
Architect—Not Given.
Contractor—Swanson & Chance, Turlock.

A complete list of bids received follow:
Swanson & Chance, Turlock...\$ 9,846
R. Uhels, Ripon..... 10,130
Joe Cesa, Pittsburg..... 10,745
J. Dawson, Berkeley..... 10,788
J. Williams, Brentwood..... 10,980

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Contract Awarded.
SCHOOL Cost, \$80,000
SAN FRANCISCO. Sixteenth and Dolores Street

Two-story and basement reinforced concrete and steel frame parochial school.

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.

Architect—H. A. Minton, Underwood Bldg., San Francisco.

Engineer—L. H. Nishkhan, 525 Market St., San Francisco.

Mechanical Engineers—Leland & Haley, 58 Sutter St., San Francisco.
 Contractor—Cahill Bros., 206 Sansome St., San Francisco.

Will be known as Mission Dolores School. Father John Sullivan is pastor of Mission Dolores Church.

SASAULITO, Marin Co., Cal.—Until June 29, 12 noon, bids will be received by Mary F. Seymour, secretary, Tamalpais Union High School District, to furnish and deliver to high school the following materials or equipment: Celotex; paint materials; painting; furniture; transportation of pupils; reeving; glazing; laboratory supplies; school supplies; electric heaters; electric supplies. Specifications obtainable from above.

Segregated Bids To Be Taken.
ART BLDG. Cost, \$5,000
SAN FRANCISCO. Potrero Ave. and 17th St.

Art building on roof of school (fire-proof structure, 2x3x50, steel frame, hollow tile walls, composition roof, trusses, ceiling beams, cabinets, hardwood finish).

Owner—Lux School of Industrial Training, Geo. A. Merrill, director.

Architect—W. S. Hays, 1325 First National Bank Bldg.

SAN FRANCISCO—Until June 29, 3 P. M., under Proposal No. 734, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver gymnasium equipment for School Department. Specifications and further information obtainable from above.

See call for bids under official proposal section in this issue.

Preparing Working Drawings.
SCHOOL Cost, \$20,000
ALPINE, San Joaquin Co., Cal.
 One-story and basement school (four rooms; brick construction; steam heat; tile roof).

Owner—Alpine School District.
 Architect—Davis-Pearce Co., 47 North Grant St., Stockton.

ADDITIONS Cost, \$—
Plans Being Figured—Bids Close June 29, 8 P. M.

BURLINGAME, San Mateo Co., Cal. Additions to Howard Avenue School and alterations to McKinley School and electric wiring and light fixtures for the Roosevelt and McKinley Schools.

Owner—Burlingame Grammar School District, W. H. Eddy, Clerk, Burlingame.

Architect—E. L. Norberg, 407 Occidental Ave., Burlingame, and 580 Market St., San Francisco.

Certified check 10% payable to clerk required with bid. Plans obtainable from the architect.

Contract Awarded.
SCHOOL Cost, \$6287
VISALIA, Tulare Co., Cal.

School building (2-classrooms, office, toilet rooms, etc.)

Owner—Linwood School District, Lucius Fluetech, Clerk, R. R. 4, Box 335, Visalia.

Architect—E. W. Peterson, Mason Bldg., Fresno

Contractor—C. H. Smith, Tulare.

CROWS LANDING, Stanislaus Co., Cal.—Until July 7, 7:30 P. M., bids will be received by Frank T. McGinnis, Clerk, Orestimba Union High School District, to furnish 200, more or less, lockers for the high school plant. Specifications obtainable from the principal at the high school

Plans Being Figured—Bids Close June 26, 8 P. M.

PAINTING Cost, \$—
SAN RAFAEL, Marin Co., Cal.
 Painting Ean Rafael Grammar School, Short Primary School and West End Primary School.

Owner—San Rafael School District, Oliver R. Hartzell, Secretary, Board of Education.
 Architect—Not Given.

CROWS LANDING, Stanislaus Co., Cal.—Until July 7, 7:30 P. M., bids will be received by Frank T. McGinnis, Clerk, Orestimba Union High School District, to furnish 245 square yards, more or less, of linoleum. Specifications on file in office of principal at the high school.

Plans Being Figured—Bids Close June 22, 8 P. M.

SCHOOL Cost, \$—
WOODLAND, Yolo Co., Cal.
 Repair high school auditorium and gymnasium.

Owner—Woodland High School Dist., R. H. Eutzsch, Secretary.

Architect—Not Given.
 Improvements will involve cleaning and cementing all cracks in ledges and outside walls of the structures and covering the entire plaster surface on the exterior with two heavy coats of Bay State Paint or its equivalent. Specifications obtainable from secretary.

Plans Being Figured—Bids Close June 29, 7:30 P. M.

ADDITION Cost, \$—
SALINAS, Monterey Co., Cal.
 Alterations and extensions to girls' shower rooms in girls' gymnasium at high school.

Owner—Salinas Union High School District, Melvow Martyn, clerk.

Architect—Swartz & Ryland, Salinas National Bank Bldg., Salinas.
 Certified check 10% payable to the Board of Trustees of district required with bid. Plans obtainable from the architects on deposit of \$10, returnable.

Commissioned To Prepare Plans.
GYMNASIUM Cost, \$—
WASCO, Kern Co., Cal.
 High school gymnasium.
 Owner—Wasco High School District.
 Architect—Ernest J. Kump, Rowell Bldg., Fresno.

Sub-Contracts Awarded.
ADDITION Cost, \$—
SAN FRANCISCO. Scott and O'Farrell Streets.

Two-story and basement brick and steel frame Girls' High School Addition (terra cotta front).

Owner—City and County of San Francisco, S. J. Hester, Sec'y., Board of Public Works.

Architect—F. H. Meyer, 525 Market St. Electric Work—Lynn and Droit, 2445 Ulloa St., \$15,490.

Mechanical Equipment—T. C. Douglass, 557 Market St., \$16,300.

Plumbing and Gas Fitting—Turner Co., 329 Tehama St., \$14,970.

As previously reported, Mahony Bros., low bidders on the general contract for this structure, bidding \$191,600, were permitted to withdraw, claiming error. New general contract bids will be opened June 17.

Contract Awarded.
GYMNASIUM Cost, \$25,000
OROVILLE, Butte Co., Calif.

One-story steel frame and reinforced concrete gymnasium.

Owner—Oroville Union High School District.

Architect—N. W. Sexton, deYoung Bldg., San Francisco.

Contractor—Frank H. Cress, 828 Excelsior St., Oakland.

Following is a complete list of bids:
 Frank Cress, Oakland.....\$22,650
 O. S. Amie, San Francisco.....22,880
 Branagh & Hudson, Oakland.....22,970
 W. J. Shaiz, Chico.....23,945
 A. F. Anderson, Oakland.....24,590
 Gene Kenyon, Sacramento.....24,920
 F. H. Betz, Sacramento.....25,890
 Chas. Unger, Sacramento.....25,890
 A. A. Plage, San Francisco.....29,887

Preparing Plans.
SCHOOL & HOME Cost, \$75,000
SAN FRANCISCO. Silver Avenue.

Four-story reinforced concrete girls' school and home.

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St.

Architect—H. A. Minton, 525 Market Street.

Taking Bids—To Be Opened June 23.
INTERIOR FINISHING Cost, \$15,000
HOLLISTER, San Benito Co., Cal.

Interior finishing of two-story reinforced concrete school building (plastering, woodwork, plumbing, heating, painting).

Owner—Hollister School District.
 Architect—W. H. Weeks, 111 Sutter St., San Francisco.

SAN RAFAEL, Marin Co., Calif.—Until July 1, 8 P. M., bids will be received by Marin Union Junior College District to supply lockers for the new gymnasium building. Plans and specifications and further information available from Architect A. A. Cantin, Flatiron Bldg., San Francisco.

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Sub-Contracts Awarded.
SCHOOL. Cont. Price, \$16,375
EMERYVILLE, Alameda Co., Cal.
One-story brick elementary school (4
classrooms).

Owner—Emeryville Elementary School
District.
Plans by Samuel Arnold, 3439 San
Pablo Ave., Oakland.

Contractor—Villades Brothers, 117
Market St., San Francisco.

Miscellaneous Iron—Herrick Iron
Works, 18th and Campbell Sts.,
Oakland.

Sheet Metal—Christiansen & Grutch,
4279 Piedmont Ave., Oakland.

Electrical Work—F. W. Parkhurst,
6432 Pinehaven Road, Oakland.

Steel Sash—Detroit Steel Products,
33rd and Doyle Sts., Oakland.

Painting—Patterson Bros., 494 36th
St., Oakland.

Sub-Bids Wanted.

SANTA ROSA. Cost, \$13,000
SANTA ROSA, Sonoma Co., Cal.
Erick addition for high school shop
(110x54 ft.; housing auto mechanics
department and general repair
shop).

Owner—Santa Rosa High School Dist.
Architect—Wm. Herbert, Rosenberg
Bldg., Santa Rosa.
J. Dawson, 1307 Lincoln St., Ber-
keley, general contractor, desires sub-
bids in connection with above, for
which bids are to be opened June
18th. Sub-bids are wanted on steel,
brick, plastering, electrical work,
plumbing, steel sash and glass.

Preparing Plans.

SCHOOL. Cost, \$25,000
REDWOOD CITY, San Mateo Co., Cal.
Two-story frame and concrete school
(Our Lady of Mt. Carmel).

Owner—Roman Catholic Archbishop of
San Francisco, 1100 Franklin St.,
San Francisco.

Architect—H. A. Minton, 525 Market
Street, San Francisco.

SAN RAFAEL, Marin Co., Calif.—
Until July 1, 8 P. M., bids will be
received by Marin Union Junior College
District to furnish heating plant to the
new gymnasium building. Plans and
specifications and further information
available from Architect A. A. Cantin,
Flatiron Bldg., San Francisco.

June 17, 1931
Bids Wanted—Close June 29, 8 P. M.
INTERIOR FINISHING. Cost, \$30,000
HOLLISTER, San Benito Co., Cal.
Interior finishing of 2-story reinforced
concrete school building (plastering,
woodwork, plumbing, heating,
painting).

Owner—Hollister School District.
Architect—W. H. Weeks, 525 Market
St., San Francisco.
Plans and specifications available
from James P. Davis, clerk of board.
Certified check of 5% required with
bid.

Sub-Contracts Awarded.
ADDITIONS Gen. Cont. price, \$104,500
ALBANY, Alameda Co., Cal. Cornell
and Marin Elementary Schools.
Six-classroom addition to Cornell
School and ten classroom addition
to Marin School (reinforced con-
crete construction).

Owner—Albany School District (J. P.
Fletcher, secretary), Albany.

Architect—Paul D. Dragon, Mercantile
Bank Bldg., Berkeley.

Contractor—J. Harold Johnson, Hearst
Bldg., San Francisco.

Lumber—Hill Lumber Co., Albany.

Ornamental Iron—Pacific Iron Works,
1155 67th St., Oakland.

Reinforcing Steel—Pacific Coast Steel,
215 Market St., San Francisco.

Millwork—Pacific Mfg. Co., Monadnock
Building.

Glass—W. P. Fuller & Co., 301 Mis-
sion St., San Francisco.

Plastering—Marconi Plastering Co.,
1737 Beach St., San Francisco.
Roofing—Western Roofing Co., 178 5
Turk St., San Francisco.

Plumbing—Albany Plumbing Co., Al-
bany.

As previously reported, electrical
work awarded to Scott-Buttner Elec.
Co., 19 Grand Ave., Oakland; heating
to Scott Co., 113 10th St., Oakland.

OAKLAND, Cal.—Thos. F. L. Fur-
long, 460 Jerome avenue, Oakland,
awarded heating contract to W. A.
Aschen, 300 E 16th St., Oakland, at
\$2,888 in connection with the con-
struction of the two-story and basement
reinforced concrete parochial school
being constructed in Piedmont High-
lands for the Roman Catholic Arch-
bishop of San Francisco. Plans were
prepared by Architect H. A. Minton,
525 Market St., San Francisco. Other
awards reported June 1.

Bids Wanted—To Close July 1, 5 P. M.
ADDITIONS. Cost, \$—
SHAFTER, Kern Co., Cal.
Additions and alterations to Richland
School.

Owner—Richland School District.
Architect—Edwin J. Symmes, Haber-
feld Bldg., Bakersfield.

Certified check 10% required, pay-
able to clerk of Board. Plans and
specifications obtainable from archi-
tect on deposit of \$10, returnable.

BANKS, STORES & OFFICES

Completing Plans.
NEWSPAPER OFFICE. Cost, \$25,000
REDWOOD CITY, San Mateo Co., Cal.
One and two-story reinforced con-
crete office building.

Owner—Peninsula Newspapers, Inc.,
248 Hamilton St., Palo Alto.
Architect—John B. McCool, 331 Bush
St., San Francisco.

Sketches Being Prepared.

ALTERATIONS. Cost, \$—
SAN FRANCISCO. E Grant Ave. be-
tween Post and Sutter Sts.
Alterations to store and loft building.
Owner—Not Given.

Architect—Bertz, Winter & Maury, 210
Post Street.
Lessee—Podesta & Baldocchi, prem-
ises.

It is expected to call for bids about
August 1st.

Completing Plans.
STORE. Cost, \$25,000
OAKLAND, Alameda Co., Cal. 14th
and Webster Sts.

One-story reinforced concrete store (8
stores).

Owner—Mrs. A. F. Merriman, % Cold-
well, Cornwell & Banker, 405 14th
St., Oakland.

Architect—Chas. McCall, 1404 Frank-
lin St., Oakland.
Expect to ask bids in a few days.

Vitrolite Contract Awarded.

ALTERATIONS. Cost, \$35,000
SAN FRANCISCO. Stockton and
O'Farrell Streets.

Alterations to two-story and mezza-
nine floor store (class C construction;
structural steel in building to
be re-used).

Owner—Imperial Realty Corp.
Architect—G. Albert Lansburgh, 140
Montgomery Street.

Contractor—Barrett & Hlip, 918 Har-
rison Street.

Vitrolite—Vitrolite Const. Co., 1490
Mission Street.

Other awards reported June 5, 1931.

Sub-Contracts Awarded.
REMODELING. Cost, \$2500
SAN FRANCISCO. No. 527 Califor-
nia Street.

Remodeling store building.
Owner—California Market Properties,
525 California St., San Francisco.

Architect—George Kelham, 315 Mout-
gomery St., San Francisco.
Contractor—Barrett & Hlip, 918 Har-
rison St., San Francisco.

Plastering—Herman Bosch, 449 Ful-
ton St., San Francisco.

Painting—J. A. Mohr, 453 11th St.,
San Francisco.

Granite Contract Awarded.
ALTERATIONS. Cost, \$30,000
SAN FRANCISCO. No. 214-218 Post
Street.

Alterations to five-story concrete
building with terra cotta front.

Owner—Eastman Kodak Co., 545 Mar-
ket St., San Francisco.

Architect—Bliss & Fairweather, Bal-
boa Bldg., San Francisco.

Contractor—Barrett & Hlip, 918 Har-
rison St., San Francisco.

Granite—McGillivray Raymond Corp.,
3 Potrero Ave., San Francisco.

Foundation Contract Awarded.
STORE. Cost, \$—

OAKLAND, Alameda Co., Cal. Broad-
way near 19th Street.

One-story store (40x100 feet).

Owner—Albert E. Kern and Samuel
Hamburger.

Architect—Reed & Corlett, Oakland
Bank Bldg., Oakland.

Concrete—Barrett & Hlip, 918 Har-
rison St., San Francisco.

Syndicate Bldg., Oakland.
General contract bids will be taken
shortly.

Segregated Figures Being Taken.
ALTERATIONS. Cost, \$10,000

SAN FRANCISCO. No. 58 Second St.
Renovating interior of restaurant,
completing new front to building
(plastering, painting, electrical
fixtures, windows, etc.)

Owner—Louis Hellman, Hotel Vic-
toria, San Francisco.

Private plans.
Expect to begin work in about ten
days.

Contract Awarded.
ALTERATIONS. Cost, \$8500

SAN FRANCISCO. 982-986 Mission St.
Alterations to restaurant, offices and
store.

Owner—Foster Lunch System, 936
Mission St.

Plans by Mr. Murray.
Contractor—A. B. Murray, 525 4th St.

SAN FRANCISCO.—Plans for a 30-
story downtown building, equipped
with every modern broadcasting fa-
cility, have been announced for the
near future by the National Broad-
casting Company, of which Don Gil-
man is Pacific Coast manager. The
building will be the Pacific Coast
headquarters for the television net-
work, for which the N. B. C. will
build three other buildings, in other
parts of the country.

Sub-Contracts Awarded.
STORE. Cost, \$—

OAKLAND, Alameda Co., Cal. Ocean
View Drive and College Ave.

One-story reinforced concrete store (3
stores; 50x37-ft.)

Owner—Bank of America.
Architect—H. A. Minton, Bank of
America Bldg., Powell and Eddy
Sts., San Francisco.

Contractor—Sullivan & Sullivan, 3927
39th Ave., Oakland.

Lumber—E. K. Wood & Co., Freder-
ick and King Sts., Oakland.

Plumbing—J. A. Fazio, 402 Castro St.,
Oakland.

Sheet Metal—Richmond Sheet Metal
Works.

Plastering—Robert Series.

Roofing—Brewer Roofing Co., 830 East
11th St., Oakland.

Glass—Tyre Bros., 666 Townsend St.,
San Francisco.

Title—Rigney Title Co., 666 Mission St.,
San Francisco.

Millwork—Sunset Ltr. Co., 400 High
St., Oakland.

Sub-Contracts Awarded.

REMODELING Cost, \$10,000
SAN FRANCISCO. 1663 Mission St.
 Alterations and painting to three-story
 loft building.

Owner—D. Spector, 1663 Mission St.
 Private plans.

Contractor—Young & Horstmeier, 461
 Market Street.

Plastering—Robert Starrott.
Painting—Raphael Co., 270 Tehama St.
Linoleum—Van Fleet-Frear Company.

Sub-Contracts Awarded.

STORE Cost, \$250,000
SACRAMENTO. Sacramento Co., Cal.
 Two-story reinforced concrete and
 steel frame store.

Owner—S. H. Kress Co., Western Pa-
 cific Bldg., Los Angeles.

Architect—John Fleming, 1031 South
 Broadway, Los Angeles.

Contractor—Lindgren & Swinton,
 Inc., California State Life Bldg.,
 Sacramento.

Concrete—Pacific Aggregates, Inc., 85
 2nd St., San Francisco.

**Hollow Metal, Tin-Clad Doors, Metal
 Partitions, Marquee**—Forderer Cor-
 neliene Works, 269 Potrero Ave., San
 Francisco.

Rolling Doors, Treads and Thresholds
 —Gunn, Carle & Co., 444 Market
 St., San Francisco.

Elevator Doors—Persons - Dwan Co.,
 534 6th St., San Francisco.

Composition Flooring—Malott & Pet-
 erson, 2412 Harrison St., San Fran-
 cisco.

Glass and Glazing—Eastbay Glass Co.,
 621 6th St., Oakland.

Electric Work—Lupen & Hawley, Inc.,
 3126 J St., Sacramento.

Miscellaneous Iron—Palm Iron Works,
 15th and S Sts., Sacramento.

Terra Cotta—N. Clark & Sons, 116 Na-
 sion St., San Francisco.

As previously reported, marble work
 awarded to Vermont Marble Co., 244
 Brannan St., San Francisco; excavation
 to J. R. Reeves, 12th and Ameri-
 can River, Sacramento; pipes to Ray-
 mond Concrete Pipe Co., Hunter-Dulin
 Bldg., San Francisco; structural steel
 to Minneapolis Steel Co., Sharon Bldg.,
 San Francisco; reinforcing steel to
 Thomas Scollan, 2919 T St., Sacra-
 mento; plumbing to Carpenter & Men-
 denhall, 907 Front St., Sacramento.

Sub-Contracts Awarded.

STORE Cost, \$10,000
MELROSE, Alameda Co., Cal.
 Remodel bank for store.

Owner—Bank of America.

Architect—H. A. Minton, Bank of
 America Bldg., San Francisco.

Contractor—David Nordstrom, 15 Nace
 St., Oakland.

Plastering—William Makin, 1048 Ex-
 celsior, Oakland.

Glass—W. P. Fuller, 259 10th Street,
 Oakland.

Electric Wiring—F. W. Parkhurst, 6432
 Pinehaven Road, Oakland.

As previously reported, lumber con-
 tract awarded to Sunset Lumber Co.,
 400 High St., Oakland; plumbing to J.
 A. Fazio, 402 Castro St., Oakland.

Completing Plans.

REMODELING Cost, \$100,000
SAN FRANCISCO. 835 Market St.
 Renovate four-story department store
 (remodel all departments into separ-
 ate shops, re-decorate dome,
 modernize front of building).

Owner—The Emporium (J. A. Smith,
 Supt.), 835 Market St.

Private plans.

Owner expects to take segregated
 figures in about two weeks.

Sub-Contracts Awarded.

REMODELING STORE Cost, \$10,000
SAN FRANCISCO. 871 Market St.
 New fixtures, painting, etc., for re-
 modeling store.

Owner—Chas. Brown & Sons, 871 Mar-
 ket Street.

Architect—Not Given.

Electric Work—Unger Electric Co.,
 299 9th St.

Plumbing—Thomas Brodie, Inc., 1231
 Mission St.

Painting—Harry Beck, 1635 27th Ave.
 As previously reported, fixtures
 awarded to San Francisco Showcase
 Co., 682 McAllister St.

Segregated Bldgs Being Taken.
STORE Cost, \$—
OAKLAND, Alameda Co., Cal. Broad-
 way near 19th Street.

One-story store (40x100 feet).

Owner—Albert E. Kern and Samuel
 Hamburger.

Architect—Reed & Corlett, Oakland
 Bank Bldg., Oakland.

Mgr. of Constr.—F. A. Muller, Syndi-
 cate Bldg., Oakland.

As previously reported, concrete
 foundations awarded to F. A. Muller,
 Syndicate Bldg., Oakland.

Postponed Indefinitely.

BUILDING Cost, \$50,000
OAKLAND, Alameda Co., Cal.—Tele-
 graph Avenue.

One and two-story reinforced concrete
 administration building.

Owner—Marshall Steel Company.
 Architect—Alben Froberg, Ray Bldg.,
 Oakland.

Contractor—H. J. Christensen, Ray
 Bldg., Oakland.

Additional Sub-Contracts Awarded.

BUILDING Cost, \$3600
SUNSHINE, San Mateo Co., Calif.
 Broadway.

One and two-story reinforced concrete
 store bldg. (2 stores and 1 apt.)

Owner—Martin S. L. G. and E. L.
 Goid, 155 Montgomery St., San
 Francisco.

Architect—Bertz, Winter and Maury,
 210 Post St., San Francisco.

Contractor—G. P. W. Jensen, 320 Mar-
 ket St., San Francisco.

Electric Work—Atlas Electric Corp.,
 243 4th St., San Francisco.

Iron—F. Kern & Sons, 517 6th Street,
 San Francisco.

As previously reported, grading and
 concrete awarded to Lonnie Sartorio,
 187 Filbert St., San Francisco; plum-
 bing to F. J. Regan, 245 California Dr.,
 Burlingame; millwork to Pacific Mfg.
 Co., 303 University Ave., Palo Alto.

THEATRES**Bids Opened.**

ALTERATIONS Cost, \$20,000
BERKELEY, Alameda Co., Cal. No.
 3322 Adeline Street.

Remodeling reinforced concrete thea-
 tre.

Owner—Kalkiski-Harbard Theatre Co.,
 3322 Adeline St., Berkeley.

Architect—A. A. Cantin, 544 Market
 St., San Francisco.

Work involves new concrete stair-
 way, pine flooring, re-arranging stage,
 ornamental plaster, revising electrical
 work, revising heating plant, general
 interior decoration.

General Contract

Alfred Hopper, 1769 Pleasant Valley
 Ave., Oakland, \$11,462.

Vezev & Son, 2220 Sacramenao St.,
 Berkeley, \$12,595.

Young & Horstmeier, Sheldon Bldg.,
 San Francisco.

Electrical Work
 Matson & Seabrooke, 4115 Broadway,
 Oakland, \$2500.

Kenyon Electric Co., 526 13th St.,
 Oakland, \$2825.

Heating bids not announced yet.

Preparing Plans.

THEATRE Cost, \$—
LOS ANGELES, Cal. Wilshire Bldg.
 and Burnside Ave.

Two-story class C masonry theatre.

Owner—Mary Stewart, 602 North Elm,
 Beverly Hills.

Architect—Ted R. Cooper Co., 1031 S
 Broadway, Los Angeles.

Sub-Bids Wanted.

THEATRE Cost, \$400,000
STOCKTON, San Joaquin Co., Cal.
 Main Street bet. Market and Stan-
 islaus Sts.

Two-story Class A theatre.

Owner—National Theatres Syndicate,
 25 Taylor St., San Francisco.

Architect—Bliss & Fairweather, Bal-
 boa Bldg., San Francisco.

J. Harold Johnson, Hearst Bldg., San
 Francisco, general contractor, is re-
 siding on this job and would like sub-
 bids.

Other prospective bidders reported
 June 16.

Electrical Contract Awarded.

THEATRE Cost, \$500,000
ALAMEDA, Alameda Co., Cal. North
 Central Ave. W Park St.

Structural steel frame and reinforced
 concrete theatre (to seat 2200; 126
 by 210-ft.)

Owner—Alameda Amusement Co.
 Architect—Meyer & Hueser, 530 Mar-
 ket St., San Francisco.

Contractor—Salih Bros., 25 Taylor St.,
 San Francisco.

Electrical Work—Matson - Seabrooke
 Co., 4115 Broadway, Oakland, \$11-
 029.

WHARVES AND DOCKS

SAN FRANCISCO—J. W. Bender
 Roofing Co., 18th and Bryant Sts.,
 was awarded the contract by the
 State Board of Harbor Commissioners
 at 4.35 per square, for roofing shed on
 Pier No. 39, involving approximately
 300 squares.

Completing Plans.

BULKHEAD BLDG. Cost, \$50,000
SAN FRANCISCO—Head of Pier 23.

Steel frame stucco front bulkhead
 building (tar and gravel roof).

Owner—State of California (Hartor
 Commission).

Engineer—Frank G. White, chief en-
 gineer, Ferry Bldg.

Expect to be ready for bids in about
 30 days.

Completing Plans.

PIER EXTENSION Cost, \$100,000
SAN FRANCISCO. Pier No. 38.

Extension to pier (concrete piles; con-
 crete deck; track aprons of cre-
 osoted lumber; steel frame shed;
 concrete walls; flat wood roof).

Owner—State of California (Harbor
 Commission).

Engineer—Frank G. White, chief en-
 gineer, Ferry Bldg.

Expect to be ready for bids in about
 30 days.

SAN FRANCISCO—Until June 25, 11

A. M., bids will be received by Of-
 fice Constructing Quartermaster, Fort
 Mason, to repair East Garrison Wharf
 at Fort McDowell, California. Spec-
 ifications and further information
 available from above.

Preparing Plans.

WHARF Cost, \$—
OAKLAND, Alameda Co., Cal. Foot
 of Feralta Street.

Garbage disposal wharf (size and type
 of construction not yet decided).

Owner—City of Oakland (Port Com-
 mission), 424 Oakland Bank Bldg.,
 Oakland.

Plans by owner.

MISCELLANEOUS CONSTRUCTION

Construction Postponed Indefinitely.
STATION Cost, \$20,000
PITTSBURG, Contra Costa Co., Cal.
Spanish type tile and stucco railroad station.

Owner—Sacramento Northern Railroad, Mills Bldg., San Francisco.
Plans by Eng. Dept. of Owners.

This structure will be similar to that recently erected by the railroad company at Chico.

BERKELEY, Alameda Co., Cal.—Until June 26, 11 A. M., bids will be received by Regents of the University of California for running track bleachers, at George C. Edwards Fields on the Campus of the University of California.

Plans and specifications obtainable from the Cashier's Window, California Hall, University of California, upon deposit of \$200.

Plans Being Figured By Selected List of Contractors.

MORTUARY Cost, \$25,000
OAKLAND, Alameda Co., Cal. Telegraph and 30th Avenues.

Two-story mortuary building.
Owner—Oakland Undertaking Co., 3007 Telegraph Ave., Oakland.

Architect—Raymond De Sanno, 2584 Milvia St., Berkeley.

Contract Awarded.

REPAIRS Cost, \$1400
LAWNDALE, San Mateo Co., Calif. Hills of Eternity Cemetery.

Repair private mausoleum (re-set granite and bronze, etc.)
Owner—A. Aronson.

Architect—W. A. Stephen, 2025 Carmelita Ave., Burlingame.
Contractor—Gaetano Bocci and Sons, Colma.

FAN RAFAEL, Marin Co., Cal.—Until July 1, 7 P. M., bids will be received by Marin Union Junior College District to furnish (1) Physics apparatus and supplies; (2) Chemistry apparatus and supplies; (3) Physical education apparatus and supplies. Further information available from A. C. Olney, president of Marin Union Junior College, Junior College Grounds Kentfield.

POMONA, Los Angeles Co., Calif.—County Architect Karl Muck, Tenth floor, Hall of Records, has been authorized by the Los Angeles board of supervisors to revise the plans and specifications for the proposed grand stand to be erected at the Los Angeles County Fair Grounds, Pomona, to bring the cost within the estimate. This action was taken following the rejection by the board, at its meeting June 10, of all bids received June 8. The total of the segregated contracts was approximately \$23,000 above the architect's estimate, viz.: \$240,000, which was the amount which the board has planned to expend upon this project.

Plans Being Figured—Bids Close July 1st.

RECREATION PIER Cost, \$—
SAN FRANCISCO, Point of Van Ness wharf, Aquatic Park.
400 foot pier (first unit of 900 ft. pier 60 ft. wide, hollow concrete piles, iron railings).

Owner—City of San Francisco (Park Commission), Park Lodge, Golden Gate Park, San Francisco.
Plans by Owner.

Segregated Bids In—Held Under Advise-ment.

CREAMERY Cost, \$10,000
OAKLAND, Alameda Co., Calif. NE McAuley and Telegraph Ave.

One-story brick creamery (hollow tile partitions, composition roof, concrete floors).

Owner—Edna Grant Shuey, 2738 Benvenne Ave., Berkeley.
Architect—Gwynne Officer, Hotel Claremont, Berkeley.
Work will begin immediately.

SACRAMENTO, Sacramento Co., Cal.—Until June 23, 3 P. M., bids will be received by U. S. Engineer Office, California Fruit Building, for miscellaneous castings. Plans and further information available from above.

Plans Being Figured.
LABORATORY BLDGS. Cost, \$—
LOS ANGELES, Los Angeles Co., Cal. SW Alvarado and Valley Sts. one and two-story brick laboratory building (55x137 ft.).

Owner—A. R. Maas Chemical Co., 308 E-Eighth St., Los Angeles.
Architect—H. Roy Kelley, Architects Bldg., Los Angeles.

NAPA, Napa Co., Cal.—Articles of incorporation were filed by the Napa Mutual Fruit Dehydrating Company, Ltd., for formation of a \$75,000 fruit concern.

Four directors of the company, named to act until the first meeting of the shareholders, are: Wm. Bohlen, R. E. Minahan, Walter Lutge and F. J. Garwood.

It is understood that the new company will build a large dehydration plant in west Napa, construction to be completed in time to handle the coming prune crop.

SAN RAFAEL, Marin Co., Calif.—Until July 1, 8 P. M., bids will be received by Marin Union Junior College District to construct bleachers in the new gymnasium. Plans and specifications obtainable from Architect A. A. Cantin, Plafiron Bldg., San Francisco.

Completing Plans.
RESORT Cost, \$300,000
RENO, Nevada. Bowers Mansion.

100-room hotel (hollow tile construction) 30 cottages, gambling casino, pool room, swimming pool, polo field, bath houses, etc.

Owner—Withheld.
Architect—George E. Koster, 6 Arcade Bldg., Reno.

Taking Segregated Figures.

RESORT Cost, \$60,000
RENO, Nev. Block bounded by Center, Pine, State Sts. and Powning Park.

Remodel residence for gambling casino and pleasure resort.

Owner—E. Dodge (attorney), Reno.
Lessee—Ray Smith, Reno.
Architect—George E. Koster, 6 Arcade Bldg., Reno.

Work will begin immediately.

MISCELLANEOUS SUPPLIES AND MATERIALS

BOULDER CITY, Calif.—Chapman Lumber Co., Portland, Ore., has been awarded a contract by Six Companies, Inc., for furnishing 250,000,000 board feet of lumber for use on the Hoover Dam and at Boulder City. Contracts awarded by the Chapman Lumber Co. are: Transportation to W. R. Chamberlin Steamship Co., Ltd., of Long Beach, 6,000,000 ft. per month; handling and transferring from the ships to railway cars, to L. W. Blinn Lumber Company.

SAN FRANCISCO—Until June 29, 2 P. M., bids will be received by Leonard S. Leavy, Purchaser of Supplies, 270 City Hall, to furnish gymnasium equipment for School Department. Specifications and further information available from above.

BERKELEY, Alameda Co., Calif.—Following is a list of bids received by city council to furnish No. 10 solid single conductor, double-bray, water-proof medium hard drawn copper wire, delivery f.o.b. Berkeley.
California Elec. Co. \$1462 per lb.
General Elec. Sup. Co. 1512 per lb.
Wilson Elec. Co. 1487 per lb.
Bids held under advisement.

SAN FRANCISCO—Until June 29, 3 P. M., bids will be received by Leonard S. Leavy, purchasing agent, 270 City Hall, to furnish lumber, hard and soft, for the School Departments. Specifications and further information obtainable from above.

BUSINESS OPPORTUNITIES

Names and addresses of persons or firms concerned in the following opportunities will be furnished on request to Business Opportunity Department, Daily Pacific Builder, 547 Mission St., San Francisco or Phone Garfield 8744.

21125—Spanish Tiles, Barcelona, Spain. Association would like to contact firms interested in importing Spanish tiles, mosaics, bronze fixtures and other articles of pure Spanish design used in the construction and decoration of private residences, clubs, hotels, libraries, etc.

21126—Slate. San Francisco. Party has inquiry from Norway for list of importers of talc, steatite (soapstone) and slate.

21132—Hardware, Paints, Oils, Mill Supplies. Manila, P. I. Party wishes to secure the representation for the Philippine Islands of reliable manufacturers of hardware, paints and oils, mill supplies, particularly and sundry merchandise in general.

State and county expenditures for country roads in 1931 will amount to \$1,550,881,000 as compared with \$1,552,945,000 in 1930, according to estimates of the statistical service of the American Road Builders' Association. Road building by states has increased in 1931 by \$50,000,000 as compared with the previous year while there has been a decrease of the same amount in county expenditures.

The state highway departments will buy highway equipment amounting to \$14,685,000 in 1931 as compared with \$14,714,706 in 1930. County purchases of highway equipment may be somewhat smaller in 1931 than in the previous year due to the slight falling off in county road building.

State expenditures amount to \$963,871,000 in 1931 as compared with \$913,778,000 in 1930; county expenditures are \$578,016,000 as compared with \$639,167,000.

One of the most remarkable examples of the durability of western red cedar was found recently on the timber lands of the Canadian Western Lumber Co. at Comox, British Columbia. It is reported by The Timberman. Two seven-foot cedars were discovered side by side. One tree when felled and the rings counted proved to be 265 years old. The other, a dead tree, was 242 years old, according to the ring count, and had apparently been dead for at least 265 years, or since the live oak took root. The tree was evidently killed by a forest fire and the charred roots were twined with the roots of the live specimen. The older tree was completely girdled by fire scars in a conflagration that took place several centuries ago. The live forest of mature trees surrounding it, without question, dates since the fire.

PUBLIC WORKS CONSTRUCTION IS PROFITABLE TO TAXPAYER SAYS U. S. EMPLOYMENT CHIEF

Public officials who wisely push public construction to stimulate employment and buying power need not fear complaints of taxpayers, E. Joseph Aronoff, director of the Public Works Section of the President's Emergency Committee for Employment, told the convention of the Illinois Association of Sanitary Districts at Peoria, last week.

"To inaugurate public works in times such as these, when building materials prices are soaring, and contractors and builders are accepting lower profits, will benefit the taxpayer in the long run," Mr. Aronoff said. "I am certain in my own mind that the lack of demand for charity, consequent to the prompt initiation of public works in times of industrial depression, will have in the public purse an amount sufficient to make the taxpayer happy in the improvement of his community, rather than disgruntled over some slight increase in taxes."

Mr. Aronoff discussed the part that expedited Federal construction projects play in minimizing the effects of business depression and pointed out the need for further expansion of municipal and state projects.

"The Federal Government has, and is expediting its construction program. Many municipalities, counties and states have done and are doing the same. But there still remains a vast reservoir of potential public construction.

"Every public-spirited citizen, every public official, every newspaper editor, must make it his job to understand the true value of initiating public work in times of industrial depression and must then make it his business to cry the truth from the house tops that our citizenry may be fully informed."

Excerpts from the address follow:

"What relation does public work bear to the business situation? What does public work amount to, anyhow? The lack of information permitting an answer to these questions is somewhat amazing, somewhat appalling.

"Since the time of the Caesars, public works in times of stress has been recognized as good economic practice. Not a single, warped idea, is this, but its purposes and effects are manifold. To inaugurate public works in times such as these is to place on the public payroll, for services rendered and value received, those who would otherwise help to swell the ranks of the unemployed. It serves to keep in the minds of the workers and their families that they are upright, useful citizens (not indigents, not parasites) earners and spenders who, by the maintenance of their standards of living, are helping to build communities, states and nations.

"This will come, too, when we learn that without employment, men, women, and children must become objects of charity who will not be permitted to starve, but whose sustenance must come from the pocketbook of those who now protest against increases in taxes; those who do not see that charity brings no permanent or tangible return, but that the self-respect of the wage earner constantly employed is payment enough in itself, to say nothing of the permanent value to the community of his labor; those who do not see that they must make their choice between paying taxes for relief and paying taxes for something tangible, lasting and effective. It will come, when we realize what we have taken from the worker, near to return, the minute we make him an ob-

ject of charity. It will come, just as soon as we have been educated to the point where we understand that charity is a make-shift, unsavory in its effects, while work and earned incomes for all is an ideal of an enlightened civilization.

"Since the latter days of November, 1930, there has been reported to the Public Works Section of the President's Emergency Committee for Employment more than six billion dollars worth of contemplated projects. We know we haven't all of it, but that, nevertheless, is what public work means in dollars and cents—billions. We, who are dealing with the question, have the feeling, however, that even this value is far overshadowed by the effect of public work upon the public mind and by the amount of private work public work induces.

"Something over one and one-half billion dollars of contracts have already been awarded this year. Just a very small fraction less than 60%—but, mind you, 60%—of the remainder is not only awaits authorization, appropriation and selection of sites, including a negligible amount delayed by litigation. Forty per cent is in a position to be advanced, the delays being occasioned by preparation or approval of plans of 25%, advertising or awaiting bids 12.9%, and miscellaneous minor factors of about 4%.

"We have been given to understand that building tradesmen constitute the largest group of artisans, and that of the total number of unemployed, the largest percentage are members of the building trades. Think what it would mean if that great body of men, with the accompanying unskilled and semi-skilled labor, could be put into employment. The cement mills would grind, the steel and tube factories would be belching forth the smoke of three shifts a day, the brick manufacturer, the stone-cutter, the butcher, the baker and the candlestick maker, all, yes, everyone of them, would receive the benefits of increased industry and of debt states wiped clean.

"In normal times, the construction industry, directly and through its various ramifications in the manufacture and sale of the necessary materials, is estimated to furnish employment to two and one-half million people, or about one-tenth of the nation's payroll. This involves annual wages aggregating three or four billion dollars, and materials and equipment of an equal value.

"Criticized, though it may be, by those who can see only the crumbling walls of an old postoffice that might well have been replaced a few years ago, the Federal government has not been derelict in its duty. Under the Supervising Architect, on April 30, there were one hundred and forty-two projects under contract amounting to \$5,733,365. By August 15, ninety-two additional contracts will have been let amounting to \$58,236,000; and by November 15, still another ninety-seven projects amounting to \$60,286,000 will be let. The Supervising Architect's Office started on a ten-year building program by an Act of Congress of July 1926. They are now nearly three years ahead of their estimated program.

"During the fiscal year 1927 they spent \$2,953,289; in 1928 \$3,145,933; in 1929 \$3,187,905; in 1930 \$3,935,588; and this year they will spend more than twice that much, or approximately \$75,000,000. By 1933 they will have completed, under contract or in the drawing stage, not less than 75% of the projects to be completed in the ten-

year program, but that program has been increased from \$165,000,000 to almost \$700,000,000. The Veterans' Bureau will spend \$13,000,000 more on new hospitals and additions this year. You are familiar with the \$80,000,000 emergency highway fund provided by Congress in addition to regular appropriations; and the rivers and harbors works, and the reclamation projects; but there are too many branches of the government to go into this at length.

"Now, what couldn't be done with that more than two billion dollars worth of contemplated public work which still awaits authorization—31.1 per cent—or appropriation—20.8%, or selection of site—5.9%, to say nothing of the other almost two billion dollars representing the 40% I spoke of a moment ago; and the millions upon millions of dollars of highways, both state and county, and municipal paving, comparatively little of which is included in my figures?

"That is something for you gentlemen to think about. The Federal government has, and is, expediting its construction program. Many municipalities, counties, and states have done and are doing the same. But there still remains a vast reservoir of potential public construction. Every public-spirited citizen, every public official, every newspaper editor, must make it his job to understand the true value of initiating public work in times of industrial depression and must then make it his business to cry the truth from the house tops that our citizenry may be fully informed."

"Hark ye to the sage words of your own Governor Emerson: 'Our greatest need of the past two years has been to build public buildings, new roads, new engineering systems to take up the slack and in the same time, furnish employment.' Our greatest need of the next few years will be the building of citizenship."

"There has not been a more opportune time in recent years for securing the maximum your money can buy. Construction costs range from fifteen to thirty-five per cent lower than they were a year or two ago. Furthermore, you are rendering a distinct public service in participating in a movement which will help your community, as well as contribute to the relief of the unemployment situation.

"A needed sanitary system, water or paving project is not only job providing, but in these days of low costs is indeed an investment that will yield large returns in money and public health and happiness. More money must be appropriated for public construction, and what has been appropriated must get into the pick and shovel stage without delay. Let us not try to fool ourselves, build now that we may restore buying power and preserve the American standard of living. There must be no delay in the building of a sanitary sewer, or the construction of a water works, or the paving of a street will sound the political death-knell of those public officials responsible therefor; but, rather, show the job-giving, necessary public improvement that has been the local unemployment problem serve to set them up on a higher plane in the estimation of their fellows."

With a record of holding the position of city engineer of Sheboygan, Wis., from 1888 to 1910, Charles E. Boley retired on May 1. Beginning with a city of some 10,000 population, having no sewers or paved streets, Mr. Boley has handled the paving, sewerage, water supply and other municipal developments for a 43-year period, during which the population has increased to more than 40,000.

Engineering News Section

BRIDGES

SAN FRANCISCO—Following list of bids received by Golden Gate Bridge District, 722 Financial Center Bldg., to construct the Golden Gate Bridge across the Golden Gate at the entrance to San Francisco Harbor, together with approaches, approach roads and certain accessory structures. Bonds of \$35,000,000 were voted by the district in finance construction. Complete list follows:

Contract (1a) Steel super-structure, involving 75,000 tons of structural steel, etc.:
 McClintic-Marshall Co., 2050
 Bryant St., S. F. \$10,494,000
 Columbia Steel Co., S. F. 10,676,000

Contract (1b) Cable, Suspenders and Accessories:
 American Cable Co., 425 2nd St., San Francisco. \$6,255,767
 Roehling & Sons Co., 646 Folsom St., San Francisco. 6,844,399
 McClintic-Marshall Co., 2050 Bryant St., San Francisco 7,974,000

Contract (2) Main Piers:
 Pacific Bridge Corp., E Water and Salmon Sts., Portland Oregon \$2,266,000
 Siems-Helmers, Inc., 1014 Guardian Bldg., St. Paul, Minn. 2,845,000
 George Pollock Co., Forum Bldg., Sacramento 3,657,800

Contract (3) Anchorage:
 Barrett & Hilp, 918 Harrison St., San Francisco \$1,645,841
 George Pollock, Sacramento. 1,746,144
 Merritt, Chapman and Scott, San Pedro 1,864,991
 Siems-Helmers, Inc., St. Paul Minnesota 2,048,854
 Healy-Thibbitts Co., S. F. 2,125,914
 G. Atkinson & Co., Russ Bldg., San Francisco 2,275,945
 Porter Bros., Detroit, Mich. 2,372,920

Contract (4) San Francisco and Approach Spans:
 Columbia Steel Co., S. F. \$ 996,000
 McClintic-Marshall Co., S. F. 1,033,400

Contract (5) Presidio Rd., involving
 (1) Grading, unclass., 110,000 cu. yds.;
 (2) Concrete paved roadway, etc., 4-852 lin. ft.;

Alternate of Item No. 2:
 (3) Asphalt concrete, etc., 4,862 lin. ft.
 (4) Underpass bridge, etc., lump sum;
 (5) High viaduct, complete, etc., "
 (6) Low viaduct, do;
 Alternate of Item No. 6:
 (7) Low viaduct, complete, etc., lump sum;
 (8) Property fence, 10,000 lin. ft.;
 (a) Total lump sum bid, excluding Items Nos. 3 and 7;
 (b) Total lump sum bid, excluding Items Nos. 3 and 8;
 (c) Total lump sum bid, excluding Items Nos. 2 and 7;
 (d) Total lump sum bid, excluding Items Nos. 2 and 8.
 Barrett & Hilp, San Francisco (a) \$966,150 (c) \$985,345.

Lindgren & Swinerton, San Francisco (a) \$982,273 (b) \$1,007,861 (c) \$1,002,373 (d) \$1,027,861.
 Rocca & Caletti, San Rafael (a) \$983,826 (b) \$994,540 (c) \$1,006,823 (d) \$1,017,537.
 Frederickson & Watson and Frederickson Bros., Oakland (a) \$995,406.
 Monson Bros., San Francisco (a) \$1-

024,518 (b) \$1,063,802 (c) \$1,031,115 (d) \$1,070,399.
 Clinton Const. Co., San Francisco (a) \$1,033,000 (c) \$1,061,337.
 George Pollock, Sacramento (a) \$1,089,537 (b) \$1,078,476 (c) \$1,119,109 (d) \$1,197,648.
 Merritt, Chapman & Scott San Pedro (a) \$1,108,777 (b) \$1,103,163 (c) \$1,127,982 (d) \$1,122,368.
 Healy-Thibbitts, San Francisco (a) \$1,144,500 (b) \$1,133,500 (c) \$1,164,000 (d) \$1,153,000.

Contract (6) Sausalito Road:
 Granfield Farrar & Carlin, S. F. \$67,586
 Frank C. Cuffem, San Rafael. 76,100
 Frederickson & Watson and Frederickson Bros., Oakland 76,240
 Barrett & Hilp, San Francisco. 84,561
 Eaton & Smith, San Francisco. 88,565
 Healy-Thibbitts, San Francisco. 95,670
 Merritt, Chapman & Scott, San Pedro 102,036

Contract (7) Paving of Main Approach Spans:
 Barrett & Hilp, S. F. \$345,000
 Monson Bros., San Francisco. 444,900
 Healy-Thibbitts, San Francisco. 496,000

Contract (8) Electrical Work; Progressive Signal & Lighting Co., Los Angeles. \$132,495
 Alta Elec. Co., San Francisco. 142,460
 NeFage-McKenny, S. F. 181,359
 H. S. Tittle, San Francisco. 166,225
 Weidental-Gosliner Electric Works, San Francisco. 377,047

Contract (9) Cable Housing and Toll Terminals.
 Barrett & Hilp, 918 Harrison St., San Francisco \$71,430

Contract (10) 100,000 Barrels Portland Cement L. O. B. San Francisco:
 Santa Cruz Portland Cement Co., San Francisco. \$2.44 per bbl.
 Pacific Portland Cement Co. " 2.44 per bbl.
 Henry Cowell Lime & Cem't Company " 2.44 per bbl.
 Yosemite Portland Cement Company " 2.44 per bbl.
 Calaveras Cement Co. " 2.44 per bbl.
 Complete list of unit bids will appear shortly.

MENDOCINO COUNTY, Cal.—A. T. Howe, Santa Rosa, at \$28,725, submitted low bid June 17 to State Highway Commission to construct bridge across the Russian River about 2 miles south of Ukiah, consisting of two 125-ft. timber truss spans and eight 19-ft. timber trestle spans and for grading and surfacing with bituminous treated crushed stone or gravel, 170 ft. of roadway approach. Complete list of bids follows:
 A. T. Howe, Santa Rosa \$28,725
 Smith Bros. Co., Eureka. 29,677
 W. J. O'Neil, San Francisco. 30,502
 C. Dudley DeVelbiss, S. F. 31,886
 A. W. Kitchen, San Francisco 33,519
 J. W. Hoops, Sacramento. 33,949
 W. J. Beatty 35,539
 P. B. McGowan, S. F. 35,539
 Peter McHugh, S. F. Not totaled

PATTERSON, Stanislaus Co., Cal.—A cutoff highway is being proposed through the Coast range mountains, providing a closer link between Santa Clara and San Joaquin valley points. Possibilities of linking this highway

with the new route to Modesto from Patterson, would include a new \$163,600 bridge over the San Joaquin river.

NAPA, Napa Co., Cal.—City of Napa has filed a new application in the office of the United States Engineers at the War Department Headquarters in San Francisco. The new plans proposed contemplate the construction of three span bridge, with a horizontal clearance of 47 feet 3 inches for the center span and 46 ft. 9 inches clearance for the side spans. The plans call for a vertical clearance of 17.35 feet at mean low water and 10.25 feet at mean high water.

SANTA ROSA, Sonoma Co., Cal.—H. A. Richardson, Stewart's Point, Cal. at \$3,644 awarded contract by county supervisors to construct 153-ft. timber bridge near Stewart's Point.

SHASTA COUNTY, Cal.—Until July 8, 2 P. M., bids will be received by State Highway Commission to construct timber bridge across Seaman's Gulch about 23 miles east of Redding, consisting of twenty-two 19-ft. spans on frame bents with concrete pedestals.

SAN LUIS OBISPO COUNTY, Cal.—L. C. Clark and C. E. Doughty, Visalia, at \$20,116 awarded contract by State Highway Commission to construct reinf. concrete girder bridge over San Marcos Creek about 7 miles north of Paso Robles, consisting of four 40-ft. spans on concrete bents and grading and paving approaches with Portland cement concrete. Unit bids published in issue of June 8.

SHASTA COUNTY, Calif.—As previously reported bids will be received July 8, 2 P. M., by State Highway Commission to construct timber bridge across Seaman's Gulch about 23 miles east of Redding, consisting of twenty-two 19-ft. spans on frame bents with concrete pedestals. Quantities involved follow:
 (1) 250 cu. yds. structure excav.;
 (2) 25 M. ft. b.m. redwood timber, select all-heart struc. grade;
 (3) 157 M. ft. b.m. Douglas fir timber, struc. grade;
 (4) 72 cu. yds. class E Portland cement concrete;
 (5) 138 cu. yds. class A Portland cement concrete (pavement);
 (6) 20,500 lbs. reinf. steel;
 (7) 1 lot misc. items of work.

SAN DIEGO, Cal.—Until June 29, 11 A. M. bids will be received by County Supervisors to construct a reinforced concrete pile bridge across the Escondido Creek on County Highway Commission Route 19, Divisadero. Plans obtainable from Board of Supervisors upon payment of actual cost of same. Certified check of 5% required. Miss C. Buckley, clerk. Ernest Childs, county surveyor.

SACRAMENTO, Cal.—Until June 26, 10 A. M. bids will be received by Harry Hall, county clerk, to construct wooden bridge on Swanston Road over Chicken Ranch Slough. Certified check of 10% required, payable to the Chairman of the County Board of Supervisors. Plans and specifications obtainable from Chas. Deterding, Jr., county engineer.

CHICO, Butte Co., Cal.—In accordance with action of the Board of Supervisors, J. A. Baumgarner, county engineer, is preparing to obtain right-of-ways for a three mile road to the Nord Cuna Road to the Bennett Ranch, north of Chico. Besides the constructing of the road there will be a 16-ft. bridge over Dog River Slough; 16-ft. truss bridge over Pine Creek; 16-ft. bridge over Big Slough.

SAN JOSE, Santa Clara Co., Cal.—Plans and specifications were ordered drawn by the City Council for a pedestrian subway under Park Ave. at Randol Ave. Plans for a similar subway on East Santa Clara Street in the vicinity of Horace Mann School will be ready for consideration in several weeks. W. L. Popp, city engineer.

DREDGING, HARBOR WORKS & EXCAVATIONS

STOCKTON, San Joaquin Co., Cal.—Bids for excavation of 1,500,000 cubic yards of dirt from the channel in the vicinity of Hog and Spud Islands will be called for within the next two weeks. Specifications are now in the hands of Federal engineers, according to Walter Coffey, engineer.

STREET LIGHTING SYSTEMS

LOS ANGELES, Cal.—Until July 1, 10 A. M., bids will be received by the Board of Public Works for constructing an ornamental lighting system in Kemore Avenue between Ambrose and Franklin Avenues. 1911 Act, Spec. and further information available from above.

MACHINERY AND EQUIPMENT

SAN FRANCISCO.—Kleiber Motor Co., 1480 Folsom Street, submitted the lowest bid to U. S. Forest Service to furnish and deliver two heavy duty stakeside trucks:

(1) 1½-ton truck	\$1,777
(2) 2-ton truck	\$2,587

Bids held under advisement.

CHOWCHILLA, Madera Co., Cal.—Until June 26, 8 P. M., bids will be received by Homer Probert, Clerk, Chowchilla Union High School District, to furnish:

One three-ton Moreland chassis (or equal) equipped with Gruss (or equal) air shocks, and four-wheel hydraulic brakes (or equal).

One forty-eight passenger school bus body. Bidders will submit their own specifications. Further information obtainable from clerk.

PEARL HARBOR, T. H.—Following is a complete list of bids received by Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish 30-ton revolving crane at the Naval Submarine Base, Pearl Harbor. Previous three low bidders reported in issue of June 11:

R. W. Kaltenbach Corp., Bedford, Ohio,	\$28,323.
Industrial-Brown Hoist Corp., Cleveland, Ohio,	\$30,700.
American Hoist & Derrick Co., St. Paul, Minn.,	\$31,854.
Honolulu Iron Works Co., 165 Broadway, N. Y. City,	\$31,981.
Orion Crane & Shovel Co., 608 S. Dearborn St., Chicago,	\$32,210.
Heyl & Patterson, Inc., 51 Water St., Pittsburgh, Pa.,	\$32,400.
English Constr. Co., Washington,	\$37,600.
Dravo Contracting Co., Pittsburgh,	\$37,950.

Lakeside Bridge & Steel Co., Milwaukee, Wis., \$39,500.

John Hanson, P. O. Box 3011, Honolulu, \$53,500.

CALEXICO, Imperial Co., Cal.—Until July 26, 7:30 P. M., bids will be received by Calexico Union High School District to furnish one 230-inch wheelbase Mack coach chassis or equivalent also one 50 passenger Crown body or its equal. Bert Redish, Secretary of District, will give further information.

BAKERSFIELD, Kern Co., Cal.—Until July 1, 7 P. M., bids will be received by C. E. Coleston, Clerk, Belridge School District, for the purchase of a school bus. Specifications obtainable from clerk.

SAN MATEO, San Mateo Co., Cal.—Recommendation for the installation of a generator and new boiler in the new east wing of the San Mateo Community Hospital was taken under consideration by the Board of Supervisors. The estimated cost is \$15,000.

PUGET SOUND, Wash.—Following three low bids received by Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 6842 to furnish 250-ton stationary hammer-head crane electricaly operated; 20-ton traveling tower crane having gasoline electric power; and 10-ton traveling gantry crane and traveling revolving jib having gasoline-electric power at the Navy Yard, Puget Sound, Wash.:

Lakeside Bridge & Steel Co., Milwaukee	\$437,500
Heyl & Patterson, Pittsburgh,	592,000
Dravo Contracting Co., Pittsburgh	603,500

RAILROADS

SACRAMENTO, Sacramento County, Cal.—The Western Pacific Company will authorize within the next few days the expenditure of \$100,000 for construction of a spur track from the Sacramento Northern right-of-way at 19th and X Streets to the icing plant of the Consumers Ice Company.

FIRE EQUIPMENT

SANTA CLARA, Santa Clara Co., Calif.—American Manufacturing Company awarded contract to furnish 500 feet of 2½-in. fire hose by city council.

RESERVOIRS AND DAMS

PASADENA, Los Angeles Co., Cal.—State Engineer Edward Hyatt approves plans for the construction of the Pine Canyon Dam for the city of Pasadena. The dam will have a storage capacity of 40,000 acre feet and will cost \$5,777,000. It will be 302 ft. high from the foundation to the spillway and 325 ft. high from the foundation to the parapet wall. The dam will be 27 ft. thick at the bottom and 20 ft. wide at the top. There will be 450,000 cubic yards of concrete in the structure.

ALHAMBRA, Los Angeles Co., Cal.—Until A. M., June 30, bids will be received by the city commission to construct reinforced concrete reservoir of approximately 700,000 gallons capacity on a site on Dupy Hill, located in the southwestern part of the city south of Valley Blvd. and west of Fremont Ave. The proposed reservoir will be of what is known as the circular concrete ring-tension type, having a diameter of 72 ft. and a water depth of 23 ft., with 24-ft. walls. It will have a wood roof supported by reinforced

concrete columns with a composition covering and mission tile trim. The estimated cost is \$15,000. Plans and specifications may be seen at the office of the city clerk, R. B. Wallace, and at the office of T. B. Downer, water superintendent, and may be obtained from the latter upon deposit of \$10. Certified check or bond, 10%.

PIPE LINES, WELLS, ETC.

PALO ALTO, Santa Clara Co., Cal.—Until June 30, 2:30 P. M., bids will be received by Supervising Superintendent of Construction, U. S. Veterans Hospital, Palo Alto, for drilling, developing and test deep well at the Veterans' Hospital Pumping Site No. 4 at Palo Alto. Specifications and further information obtainable from above.

SAN FRANCISCO.—Bids will be called within the next few months for the construction of the Alamo Pumping Pipe Line in Alameda County in connection with the Hetch-Hetchy Water Supply project. The pipe line will be 30 to 35 miles in length with a capacity of 45,000 to 60,000,000 gallons daily, and 350 to 400 ft. pumping head. Plans are now being prepared for this work in the engineering department, city hall.

OAKLAND, Alameda Co., Cal.—Until June 22, 3:30 P. M., bids will be received by Board of Port Commission, 424 Oakland Bank Bldg., to install fire hose piping and domestic water piping in Warehouse "C" Outer Harbor Terminal. Plans and specifications available on deposit of \$5, from G. E. Hogart, Secretary of Board. Certified check of 10% required with bid.

RIVERDALE, Fresno Co., Cal.—Instead of accepting the proposal of the Coleman Estate to furnish the Riverdale Irrigation District with water at a stated sum per acre foot, the irrigators of the district may decide to install a pumping system, according to the result of a discussion at a meeting of the district. Surveys are now being made.

WOODLAND, Yolo Co., Cal.—Considerable discussion will be given at the next meeting of the city council for drilling and boring new wells. New wells are badly needed to provide adequate water supply, and preliminary tests are to be made at the East Street Plant.

PALO ALTO, Santa Clara Co., Cal.—Until June 24, 2:30 P. M., bids will be received by U. S. Veterans' Hospital, Palo Alto, to drill, develop and test Deep Well at California Pumping Site No. 4. Previously reported to have been opened June 30. Specifications and further information obtainable from above.

OAKLAND, Alameda Co., Cal.—Plans and specifications are now being prepared by the Port Engineering Department for a proposed garbage disposal plant at Foot of Peralta Street Inner Harbor to take the place of the present pier at foot of 11th Street Outer Harbor Terminal.

SAN FRANCISCO.—Until July 1, 2:30 P. M., bids will be received by J. J. Hester, secretary, Board of Public Works, to drill 2 to 12 water wells in San Antonio, Calif., depending on depth of water table. Estimated cost, \$5,000. Specifications obtainable on deposit of \$10, returnable, at Room 701, 425 Mason St. City contracting for the deepening of two wells with the privilege of increasing to 12.

SAN FRANCISCO.—Until July 1, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to drill 2 to 6 wells, depending on depth of water table, at Pleasanton, Calif. Estimated cost, \$30,000. Plans obtainable on deposit of \$10 at Room 701, 425 Mason St. Quantities involved are:

- 1,800 lin. ft. sinking test bore;
- 480 lin. ft. 30-in. dia. conductor pipe;
- 1,800 lin. ft. reaming bore and 14-in. casing with gravel envelope;
- 6 installation test pumps;
- 288-hp. operating test pump.

SEWERS AND SEWAGE DISPOSAL PLANTS

BERKELEY, Alameda Co., Cal.—Following list of bids received by city council to furnish sewer pipe, f. o. b. Corp. Yard, Allston Way and West St., for fiscal year commencing July 1, 1931. (1) earload lots; (2) less than earload: Gladding-McBean (1) 50%; (2) 50%, 2% off for cash. California Piping Co. (1) 50%; (2) 50%, 2% off for cash. N. Clark & Son (1) 50%; (2) 50%, 2% off for cash.

WATER WORKS

SAN FRANCISCO.—Until June 29, 3 P. M., under Proposal No. 732, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish and deliver cast iron pipe for water department, as follows:

- (1) 10,000 ft. 4-in.,
- (2) 50,000 ft. 6-in.,
- (3) 40,000 ft. 8-in.,
- (4) 5,000 ft. 12-in.

Specifications obtainable from the above office.

VALLEJO, Solano Co., Calif.—Until June 20, 11 A. M., bids will be received by Alf. E. Edgcombe, city clerk, to furnish a quantity of 16-in., 20-in., and 24-in. bell and spigot cast iron water pipe, as follows:

1,776 ft. 20-in. cast iron pipe, class B or class 100;

5,778 ft. 24-in. do;
1,152 ft. 24-in. cast iron pipe class C or class 250 (alternate bid);
1 length of 16-in. cast iron pipe, class B or class 100;

70 fittings.
Certified check 10% payable to city required with bid. Further information obtainable from T. D. Kilkenny, city engineer.

OAKLAND, Cal.—Until July 8, 8 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., to furnish and deliver approximately 175,000 ft. of cast iron pipe of 2-in., 4-in., 6-in. and 8-in. diameters. Specifications obtainable from above office.

CORNING, Tehama Co., Cal.—Lyon & Garrett Co., Red Bluff, at \$2875 awarded contract by city trustees to furnish and install Fairbanks-Morse deep well turbine pump, motor, 8-in. standard pipe, with wiring, fittings and equipment in connection with municipal water system. Complete list of bids published in issue of June 8.

SAN FRANCISCO.—Contract of the Consolidated Steel Company of Los Angeles, to fabricate steel pipe for the San Francisco Water Department has been turned over to the Western Pipe & Steel Co. The information came when the board was asked to approve of the transfer.

The contract is for fabricating pipe necessary to place a main from the University Mansard reservoir to Twenty-fifth and Harrison Streets. Western

Pipe & Steel Company bid \$228,292.50 for the entire job and \$94,815 for the fabricating.

PLAYGROUNDS & PARKS

SAN RAFAEL, Marin Co., Cal.—Until June 26, 8 P. M., bids will be received by Oliver B. Harlow, secretary, Board of Education, for improving high school grounds. Specifications obtainable from the secretary at the high school.

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REDWOOD CITY, San Mateo Co., Cal.—The City Council will be asked to call a \$65,000 park bond election early in September. The request will be made by the Chamber of Commerce Committee, which, during the past year has been making a careful study of the need for more parks. The bond issue, if passed, would be used to purchase park and playground sites throughout the city.

REDWOOD CITY, San Mateo Co., Cal.—City Council unanimously approved a recommendation to call a \$65,000 bond election in September. The purpose of the election will be to purchase three additional park sites and for improving and equipping proposed new acquisition and seven other sites now available.

STREETS AND HIGHWAYS

SAN JOSE, Santa Clara Co., Cal.—City Council ordered plans and specifications prepared for the paving of Sixteenth Street, between Jackson and Taylor Sts. Wm. Popp, city engineer. Plans were also adopted for the installation of a sewer in 19th Street, between Mission and Ross Streets.

SAN FRANCISCO.—Until June 22, 3 P. M., bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, under Proposal No. 729 to furnish ready mixed concrete, required during the fiscal year 1931-32. Specifications obtainable from above. Previously announced to be opened June 15.

SACRAMENTO, Sacramento Co., Cal.—The Western Pacific Company will authorize within the next few days the expenditure of \$100,000 for construction of a spur track from the Sacramento Northern right-of-way at 19th and X Streets to the icing plant of the Consumers Ice Company.

ALAMEDA, Alameda Co., Cal.—Following low bids submitted to the city council to furnish 1500 tons, more or less, of crushed rock; 1000 tons, more or less, screenings and 600 tons, more or less, Bird's eye screenings:

Oil—Healy-Moore Co., 344 High St. Oakland, \$3.25 per barrel.

Bird's Eye Screenings—Elfric Coast Aggregates, \$1.44 per ton, not delivered; \$1.64 per ton delivered.

Rock—Cowell Bros., \$1.43 not delivered; \$1.53 delivered.

Plain Screenings—Cowell Bros., \$1.43 not delivered; \$1.53 delivered.

Bids held under advisement.

ALAMEDA, Alameda Co., Cal.—C. C. Moore at \$3.25 per barrel submitted only bid to the City Council to furnish 2000 barrels, more or less, "Colo L 2" road oil or equal and 2000 barrels, more or less, "Bitumuls-55" or equal. Bids held under advisement.

COLUSA COUNTY, Cal.—Union Paving Company, Call Bldg., San Francisco, awarded contract at \$230,247 by State Highway Commission to grade and pave with Portland cement concrete 8.6 miles between Williams and Maxwell. Complete list of unit prices listed in June 16 issue.

BOULDER CITY, Nevada.—Until June 30, 10 A. M., bids will be received at the office of the U. S. Reclamation Bureau, Las Vegas, for grading, paving, constructing curbs, gutters, sidewalks, sewer and water system for Boulder City, located about 25 miles southeast of Las Vegas. The work will involve the following quantities:

120,000 cu. yds. excav. common grading;
30,000 cu. yds. excav. rock, grading;
1000 cu. yds. excav. rock, in trenches;
20,000 sta. yds. overhaul;
40,000 lin. ft. excav. and backfilling sewer trench, not more than 5 ft. deep;

17,500 lin. ft. excav. and backfilling sewer trench, more than 5 ft. and not more than 8 ft. deep;

1700 lin. ft. excav. and backfilling sewer trench, more than 8 ft. and not more than 12 ft. deep;

400 lin. feet excav. and backfilling sewer trench, more than 12 ft. deep;

20,000 lin. ft. laying 4-in. sewer pipe, fittings, and specials;

23,000 lin. ft. laying 6-in. sewer pipe, fittings and specials;

7200 lin. ft. laying 8-in. sewer pipe, fittings, and specials;

1700 lin. ft. laying 10-in. sewer pipe, fittings and specials;

7700 lin. ft. laying 12-in. sewer pipe, fittings and specials;

165 manholes, not more than 5 feet deep;

100 additional feet of depth, manholes over 5 ft. deep (at a price per ft.);

52,000 lin. ft. excav. and backfilling water pipe trench, not more than 4 ft. deep;

300 cu. yds. excav., common, and backfill of water pipe trench, quantities below the 4-ft. depth only;

2400 lin. ft. laying 2-in. cast iron pipe, valves, fittings and specials;

33,500 lin. ft. laying 6-in. cast iron pipe, fittings, valves and specials;

6300 lin. ft. laying 8-in. cast iron pipe, fittings, valves and specials;

2000 lin. ft. laying 12-in. cast iron pipe, fittings, valves and specials;

153 valve metre boxes, installing ¾-in. and 1-in. valve metre boxes and 1-in. valve metre boxes and

gutter, incl. excav.;

6000 sq. ft. class C curb, incl. excav.;

180,000 sq. ft. class A sidewalks, incl. excav.;

190,000 sq. ft. class B sidewalks, incl. excav.;

46,150 sq. yds. 2-course asph. concr. pavement, class I;

46,150 sq. yds. 2-course full penetration emulsified asph. pavement, class I;

43,850 sq. yds. one-course asph. concrete pavement, class II;

43,850 sq. yds. one-course full penetration emulsified asph. pavement, class II;

125,000 sq. yds. oil-treated gravel surfacing, class III;

11,000 sq. yds. hardpan or gravel surfacing, class IV;

22,000 sq. yds. parking area surfacing with materials furnished by the government;

22,000 sq. yds. parking area surfacing with material furnished by contractor.

MONTEREY, Monterey Co., Calif.—Clark & Henry, 55 Market St., San Francisco, awarded contract by city council to improve Teresa St. between Monroe and Harriet Sts., and between Clay and High Sts.

Unit bids as follows:
 (1) 26,000 sq. ft. 4-in. asph. concrete \$185.
 (2) 7,150 sq. ft. concrete sidewalks, \$185.
 (3) 1,350 lin. ft. concrete curbs and cutters, \$1.00 per lin. ft.
 (4) 10 sidewalk crossings 12-ft. wide, \$15.00 each.
 (5) 350 lin. ft. 4-in. house connection sewers, \$1.00 per lin. ft.

GLENORA, Los Angeles Co., Cal.—Until June 23, 8 P. M., bids will be received by City Council to improve Michigan Avenue between Whitcomb Ave. and the north city boundary and portions of other streets, involving 1½ inch oil macadam pavement; 6-inch concrete pavement and incidental work. 1911 Act. A. E. DeMott, city engineer. Fred Long, city clerk.

NEVADA COUNTY, Cal.—Tieslau Bros., Berkeley, at \$104,164 submitted low bid June 17 to State Highway Commission to surface with crusher run base and bituminous treated crushed gravel or stone (plant mix), 8.5 miles between Truckee and Hinton. Complete list of bids follows:
 Tieslau Bros., Berkeley.....\$104,164
 F. W. Nighbert, Bakersfield.....122,235
 A. Telchert & Son, Sacto.....129,347
 Hemstreet & Bell, Marysville.....146,622
 Granite Constr. Co., Wastonville.....147,235
 Clark & Henry, S. F.....179,499
 Valley Paving Co., Fresno.....199,529

COLUMBIA COUNTY, Cal.—Union Paving Co., Cal Bldg., San Francisco, at \$124,606 submitted low bid June 17 to State Highway Commission to grade and pave with Portland cement concrete 4.1 miles between 4 miles south of Williams and Williams. Complete list of bids follows:
 Union Paving Co., S. F.....\$124,606
 C. W. Wood, Stockton.....129,545
 N. M. Ball, Porterville.....127,009
 Hanrahan Co., San Francisco.....135,673
 M. J. Bevanda, Stockton.....138,496

TRINITY-SHASTA COUNTIES, Cal.—Henley Moore Co., 344 High St., Oakland, at \$61,233 submitted low bid to State Highway Commission for bituminous treatment on 32.0 miles between Westerville and Tower House. Only other bid submitted by George French Jr., Stockton, at \$61,579.

MONO COUNTY, Cal.—Basalt Rock Company, Napa, at \$24,364 awarded contract by State Highway Commission to treat with heavy fuel oil and cut-back asphalt as a dust palliative, 28.4 miles between Leavining and 2 miles west of Bridgeport.

MONO COUNTY, Cal.—Southwest Paving Co., Washington Bldg., Los Angeles, at \$84,619 submitted low bid June 16 to State Highway Commission to surface with crusher run base and bituminous treated crushed gravel or stone, 12.9 miles between Sonora Junction and 4 miles south of Coleville. Complete list of bids follows:
 Southwest Paving Co., L. A.....\$84,619
 Geo. Herz & Co., San Bernardino.....106,986
 George Oswald, Los Angeles.....108,811
 Clark & Henry, S. F.....111,840
 F. W. Nighbert, Bakersfield.....115,374
 Hemstreet & Bell, Marysville.....138,546
 Granite Constr. Co., Wastonville.....148,177
 Valley Paving Co., Fresno.....212,671

LOS ANGELES, Los Angeles Co., Cal.—J. A. Thompson, Financial Center Bldg., submitted low bid to county supervisors at \$144,164.59 for improve-

ments on Pomona Blvd. east of Alhambra, between Alhambra and 1st Aves. Following is complete list of bids received:

J. A. Thompson.....\$144,164
 G. H. Oswald.....146,243
 Southern Calif. Roads Co.....158,436
 Griffith Company.....158,432
 Hall-Johnson.....158,900
 J. L. McLain.....158,959
 G. R. Curtis Paving Co.....169,619
 P. J. Alkmdzich.....164,082
 Los Angeles Paving Co.....164,957
 Kovacevich & Price, Inc.....176,475
 R. J. Blanco.....178,675

SAN FRANCISCO—Until July 1, 2:30 P. M., bids will be received by S. J. Hester, secretary, Board of Public Works, to install sewers in Alamyra Blvd., Section C, from San Jose to Palmetto. Plans obtainable from Bureau of Engineering, 3rd floor, City Hall, on deposit of \$10, returnable. Estimated cost, \$2,700. Quantities involved are:
 175 lin. ft. 18-in. V.C.P. sewer;
 585 lin. ft. 12-in. do;
 215 lin. ft. 8-in. do;
 80 lin. ft. 6-in. V.C.P. side sewer;
 6 18x6-in. Y branches;
 19 12x6-in. Y branches;
 13 8x6-in. Y branches;
 5 brick manholes;
 1 drop manhole.

RIVERSIDE, Riverside Co., Cal.—T. C. Jameson, chairman of the County Supervisors, has announced that \$75,000 additional to the \$250,000 fund tentatively allotted to the Pines-to-Palms highway has been appropriated by the U. S. Bureau of Public Roads. This \$225,000 will provide for the construction of 8.5 miles of the scenic drive. Included in the proposed plans are two concrete bridges to cost about \$20,000 additional, if funds are available.

SAN JOSE, Santa Clara Co., Cal.—Until June 29, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to oil and screen Hecker Highway in Supervisors District No. 1. Plans and specifications available from county clerk on deposit of \$1.00.

SAN JOSE, Santa Clara Co., Cal.—A. J. Raisch awarded contract at \$6509 by County Supervisors for macadamizing Fruitvale Ave., from the Meridian Road to the San Jose-Los Gatos Highway.

FRESNO, Fresno Co., Cal.—Until June 26, 11 A. M., bids will be received by H. S. Foster, City Clerk, (111-D) to improve Coast Ave., bet. Olive Ave. and Elizabeth Ave., involving grading, cement concrete sidewalks, curbs and driveway approaches. 1911 Act.

Certified check 10% required, made payable to City of Fresno. Plans and further information available from H. S. Foster, City Clerk. J. L. Vincenz, City Engineer.

JEFFERSON COUNTY, Oregon—S. H. Newell & Co., 1254 Reed College Place, Portland, have been awarded the contract by the U. S. Bureau of Public Roads, Portland, at \$112,455.60 for grading 5.378 miles of the Santiam Highway. Project 23-E-1, located in Deschutes National Forest. Involving:
 (1) 18 acres clearing;
 (2) 40 acres grubbing;
 (3) 265,300 cu. yds. excavation.
 (4) 6378 miles finishing earth graded road;
 (5) 2560 ft. culverts.

CALAVERAS COUNTY, Cal.—Until June 30, 3 P. M., bids will be received by R. E. Pierce, District Engineer, State Highway Commission, Room 502 State Office Building, Sacramento, to surface with bituminous treated crushed gravel or stone about two and eight-tenths (2.8) miles in length between 1.1 miles north of Calaveritas Creek and 1.4 miles south of Calaveritas Creek. Certified check of 10% required with bid. Specifications and plans obtainable from above.

SAN DIEGO COUNTY, Cal.—Until July 8, 2 P. M., bids will be received by State Highway Commission to furnish and apply heavy fuel oil on each side of existing pavement on 33.9 miles between La Mesa and La Posta Creek.

PLACER COUNTY, Cal.—Until July 8, 2 P. M., bids will be received by State Highway Commission to surface with bituminous treated crushed gravel or stone (plant mix), 9.1 miles between Colfax and Gold Run.

COLUMBIA COUNTY, Cal.—Until July 8, 2 P. M., bids will be received by State Highway Commission to surface with gravel 6.5 miles between 12 miles and 5 miles west of Williams.

NEVADA COUNTY, Cal.—Until July 8, 2 P. M., bids will be received by State Highway Commission for grading and surfacing with untreated crushed gravel or stone, 2.9 miles between westerly boundary and Toll House.

LASSEN COUNTY, Cal.—Until July 8, 2 P. M., bids will be received by State Highway Commission to improve 7.5 miles between Doyle and Long Valley Creek, 4.3 miles to be surfaced with selected material and 7.5 miles to be oiled.

SAN FRANCISCO—Until June 22, 11 A. M., bids will be received by the Constructing Quartermaster, Ft. Mason, for resurfacing roads and installing concrete curbs, etc., at National Cemetery in Presidio. Specifications obtainable from above.

MONO COUNTY, Cal.—Macco Const. Co., Clearwater, at \$235,997.20 awarded contract by State Highway Com-

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mission for grade and surface with bituminous treated gravel or stone, 12.3 miles between Yerbas and Casa Diablo Hot Springs. Unit bids published in issue of June 6.

GILROY, Santa Clara Co., Calif.—City council declares intention (7) to improve portions of 4th, 7th, Roanana, Church, Railroad Sts., etc., involving: (1) 360,049 sq. ft. 5-in. asph. conc. pavement;

- (2) 48,814 sq. ft. 2-in. do surfacing;
- (3) 18,952 sq. ft. 2-in. do do;
- (4) 35,580 sq. ft. Portland cem. conc. gutter;
- (5) 6,623 lin. ft. Portland cement concrete class A curb;
- (6) 3,204 lin. ft. Portland cement concrete class B curb;
- (7) 2,708 sq. ft. Portland cement concrete sidewalk;
- (8) 7,500 cu. yds. excavation;
- (9) 395 lin. ft. 6-inch storm water sewer;

- (10) 3,426.70 lin. ft. 8-in. do;
- (11) 466.59 lin. ft. 10-in. do;
- (12) 1,145 lin. ft. 15-in. do;
- (13) 15 catchbasins;
- (14) 20 manholes.

1911 Act. Bond Act 1915. Hearing June 22. E. F. Rogers, city clerk. R. W. Fisher, 74 N 1st St., San Jose, engineer.

SAN BERNARDINO COUNTY, Cal.—Griffith Company, Los Angeles Railway Bldg., Los Angeles, at \$39,112 awarded contract by State Highway Commission to grade and pave with asphalt concrete 2.2 miles through Upland. Complete list of unit bids received on this project published in issue of June 8.

CALAVERAS COUNTY, Cal.—W. J. Schmidt, 79 Rock Lane, Berkeley, at \$17,065 awarded contract by State Highway Commission for surface treatment on 15.5 miles between Murple and Big Trees. Unit bids received on this project published in issue of June 8.

MONTREY COUNTY, Cal.—Granite Const. Co., Watsonville, at \$7,248 awarded contract by State Highway Commission to surface with oil treated gravel, 3.2 miles between Priest Valley School and the easterly boundary. Unit bids published in issue of June 5.

SAN BENITO-SANTA CLARA COS. Cal.—Granite Const. Co., Watsonville, at \$51,404 awarded contract by State Highway Commission to grade and surface with bituminous treated crushed gravel or stone, 4.7 miles between 3.2 miles north of Hollister and Pacheco Pass road. Unit bids published in issue of June 6.

LYON COUNTY, Nevada—Nevada Rock & Sand Co., Reno, Nev., at \$34,639.88 awarded contract by State Highway Commission to construct portion of state highway in Lyon County, between Wilson's and the Mouth of Wilson Canyon, a length of 1.12 miles. The work will consist of grading and construction of a concrete and steel bridge over the West Walker river together with the construction of minor structures.

WHITE PINE COUNTY, Nevada—Wheelwright Construction Co., Ogden, Utah, at \$39,133.51 awarded contract by State Highway Commission to construct gravel surfacing on 17.25 miles between Connor's Pass and Ely; engineer's estimate \$123,663.14.

CLARK COUNTY, Nevada—Nevada Rock & Sand Co., Reno, at \$17,914.64 awarded contract by State Highway Commission to furnish, heat and apply asphaltic fuel oil and mixing it with crushed rock or crushed gravel surface from Las Vegas to 19 miles southeast, 10.18 miles in length.

SAN BENITO-MONTEREY-SAN LUIS OBISPO and SANTA BARBARA COUNTIES, Calif.—McEverlast, Inc., 111 W 7th St., Los Angeles, at \$1,525,56 submitted low bid to L. H. Gibson, district engineer, State Highway Commission, San Luis Obispo, for painting traffic stripes for designating traffic lanes on 254.26 miles in the above counties between the northerly boundary of San Benito County and the southerly boundary of Santa Barbara County and between San Juan Bautista and Hollister in San Benito County. Essick & Co., Los Angeles, next low bidder at \$1,975.60.

SAN JOAQUIN COUNTY, Cal.—Until June 25, 2 P. M., bids will be received by R. E. Pierce, division engineer, State Highway Commission, 502 State Office Bldg., Sacramento, to grade and pave with Portland cement concrete, 0.3 miles at Ripon. See call for bids under official proposal section in this issue.

SONOMA, Sonoma Co., Cal.—Peres & Gatto, Richmond, awarded contract by city trustees for asphaltic oil surfacing on six miles of streets, involving:

- (a) 60 barrels light oil;
- (b) 20 tons heavy oil;
- (c) 150 tons rock;
- (d) 100 tons screenings.

PALO ALTO, Santa Clara Co., Cal.—City council declares intention (986) to improve portions of Amherst and Cedar Sts., Channing, Grant, Harker and Hopkins Avenues, Marlowe St., Palo Alto Ave., Pine St., and Ruthven Ave., involving construction of vit. san. sewer mains; brick manholes; copper pipe water service connections; concrete storm sewer pipe; catchbasins; Armo pipe culverts; curbs; walks, etc. 1911 Act. Hearing June 29. E. L. Beach, city clerk. J. F. Byrbee, city engineer.

SAN LUIS OBISPO COUNTY, Cal.—Cook & Clark, Santa Barbara, at \$2.13 per barrel at \$8,637.15 awarded contract by State Highway Commission to treat with heavy fuel oil on each side of the existing pavement, 9.1 miles between Atascadero and Paso Robles. Project involves 4055 barrels heavy fuel oil in place.

GRASS VALLEY, Nevada Co., Cal.—Plans submitted to the City Council by City Engineer E. C. Uren for the proposed sewer line down Kelsey Ravine, between Orchard Street and Nivens Alley. According to the Council immediate action will be taken.

LINCOLN COUNTY, Oregon—F. C. Dillard, Medford, Oregon, was awarded contract by the U. S. Bureau of Public Roads, Portland, at \$81,835 to construct or improve the Alsea Highway Reconstruction Project, 6-D2, E3, National Forest Road Project, located

within the Siuslaw National Forest, County of Lincoln, State of Oregon. The length of the project to be constructed or improved is approximately 6.556 miles and the principal items of work are approximately as follows:

- (1) clearing, 20 acres;
- (2) grubbing, 9 acres;
- (3) unclass. excav., 149,500 cu. yds.;
- (4) overhaul, 100,000 1/2 mi. yds.;
- (5) sub-base, 3500 cu. yds.;
- (6) finishing, 6.4 miles;
- (7) class A concrete, 10 cu. yds.;
- (8) culverts, 1640 lin. ft.;
- (9) hand-laid riprap, 1500 cu. yds.;
- (10) porous tile underdrain, 1000 lin. ft.

SACRAMENTO, Cal.—E. F. Hilliard, 1355 43rd St., Sacramento, at \$11,932.90 submitted lowest bid to County Supervisors for resurfacing Manzanita Ave. with asphaltic macadam from Fair Oaks Blvd. northerly to Madison Ave. Est. cost, \$7000.

Following is a complete list of bids received:

E. F. Hilliard	.....	\$11,032.90
A. Telcher & Son	.....	11,455.24
J. R. Reeves	.....	12,519.81

Bids held under advisement.

SACRAMENTO, Cal.—A. Telcher & Son, 1346 37th St., Sacramento, at \$15,590.10 submitted lowest bid to County Supervisors (1631) to improve North B Street, involving grading, asphalt macadam pavement, consisting of 5-in. crushed rock base course with 2-inch asphaltic macadam surface. Work under County Improvement Act 1921 F. Following is a complete list of bids received:

A. Telcher & Son, Sacramento	.....	\$15,590.10
E. F. Hilliard, Sacramento	.....	16,390.00
J. R. Reeves, Sacramento	.....	17,181.00

Bids held under advisement.

SACRAMENTO, Cal.—P. F. Bender, 1012 Del Paso Blvd., Sacramento, at \$597.77 submitted lowest bid to County Supervisors to construct reinforced concrete culverts in Madison Avenue. Est. cost \$880. Following is complete list of bids received:

P. F. Bender, 597; Staniger & Edger, 6613; J. Downar, 6616; Henry Finnigan, 6623; Gene Kenyon, 6643; D. McDonald, 6652; C. Hunt, 6652; Yolo & Dauger, 6691; Holdener Const. Co., 6707; Mayhew, 6716; George Hidnutt, 6867.		
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Bids held under advisement.

STOCKTON, San Joaquin Co., Cal.—Percira & Reed, stockton, at \$392.15 awarded contract by County Supervisors to improve Holt Road from Holt to the McDonald Island Road in Road District No. 1. Other bidders were: George French Jr., \$11,077; Moreing Bros., \$917.50 and Willard & Bisotti, \$925.

SAN JOSE, Santa Clara Co., Cal.—J. H. Grimby at \$6590 submitted only bid to County Supervisors for macadamizing Fruitvale Ave. from Meri-

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San Road, to the San Jose-Los Gatos Highway, bids held under advisement.

NEVADA COUNTY, Calif.—As previously reported bids will be received July 8, 2 P. M., by State the Highway Commission for grading and surfacing with untreated crushed gravel or stone 2.9 miles between westerly boundary and toll house. Quantities involved follow:

- (1) 20 acres clear and grub right of way;
- (2) 75,000 cu. yds. roadway excavation without classification;
- (3) 163,000 sta. yds. overhaul;
- (4) 2000 cu. yds. struc. excav.;
- (5) 5300 cu. yds. crusher run base;
- (6) 1300 cu. yds. untreated crushed gravel or stone surf.;
- (7) 130 cu. yds. class A Portland cement concrete (struc.);
- (8) 15 cu. yds. class B do;
- (9) 13,000 lbs. bar reinf. steel (struc.);
- (10) 100 lin. ft. 8-in. corr. metal pipe;
- (11) 134 lin. ft. 12-in. do;
- (12) 1102 lin. ft. 12-in. do;
- (13) 320 lin. ft. 24-in. do;
- (14) 48 lin. ft. 36-in. do;
- (15) 70 lin. ft. 12-in. corr. metal pipe (siphon);
- (16) 8 lin. ft. 48-in. do;
- (17) 86 lin. ft. 60-in. do;
- (18) 300 lin. ft. 8-in. perforate metal pipe under drains;
- (19) 18 lin. ft. corr. metal pipe (clean and relay);
- (20) 8 lin. ft. 6-in. wrought iron pipe;
- (21) 24 lin. ft. 3-in. do;
- (22) 20 cu. yds. dry rubble wall;
- (23) 250 cu. yds. light riprap;
- (24) 6.0 miles new property fence;
- (25) 15 each new fence gates;
- (26) 20 M. ft. b.m. redwood timber dense select all-heart struc. grade;
- (27) 32 M. ft. b.m. redwood timber select all-heart struc. grade;
- (28) 420 M. gals. water applied to base and surface;
- (29) 151 stations fill roadway;
- (30) 23 each monuments.

The State will furnish corrugated metal pipe, Dayton couplers, manhole covers and frames, and gate valves.

PLACER COUNTY, Calif.—As previously reported, bids will be received July 8, 2 P. M., by State Highway Commission to surface with bituminous treated crushed gravel or stone (plant mix) 9.1 miles between Colfax and Gold Run. Quantities involved follow:

- (1) 32,000 tons crusher run base;
- (2) 17,500 tons bit. treated crushed gravel or stone surf. (plant mix);
- (3) 960 M. gals. water applied to sub-grade;
- (4) 700 bbls. light fuel oil;
- (5) 45 cu. yds. struc. excav.;
- (6) 6 lin. ft. 18-in. corr. metal pipe;
- (7) 6 lin. ft. 24-in. do;
- (8) 80 lin. ft. corr. metal pipe (clean and relay);
- (9) 4 each, move and reset cone, head-walls.

The State will furnish corrugated metal pipe.

TEHAMA COUNTY, Cal.—Until July 9, 3 P. M., bids will be received by C. H. Sweetser, District Engineer, 461 Market St., San Francisco, to grade Section B, Deer Creek National Forest, Route 23 in Lassen National Forest, Tehama County, about 3.66 miles in length involving:

- (1) 23.5 acres clearing;
- (2) 84,800 cu. yds. unclass. excavation;
- (3) 851 cu. yds. unclass. excav. for structures;
- (4) 52,000 sta. yds. overhaul;
- (5) 3,632 miles finish earth graded road;
- (6) 162 cu. yds. class "A" concrete;
- (7) 12,900 lbs. reinforcing steel;
- (8) 1282 lin. ft. corrugated metal pipe;
- (9) 36 each right-of-way monuments;

- (10) 6 each log truss spans;
- (11) 4134 sq. ft. crib face in place;
- (12) 295 cu. yds. hand placed rock fill for log cribs;
- (13) 301 sq. ft. bit. wearing surface.

Specifications and plans obtainable from above on deposit of \$20, returnable. Certified check of 5% required.

TEHAMA COUNTY, Cal.—Until July 9, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, 461 Market St., San Francisco, to grade Section A, Route 79, Morgan Summit-Morgan Springs National Forest Highway, Lassen National Forest, Tehama County, about 3.717 miles in length, involving:

- (1) 26 acres clearing;
- (2) 85,200 cu. yds. unclass. excav.;
- (3) 555 cu. yds. unclass. excav. for structures;
- (4) 71,500 sta. yds. overhaul;
- (5) 3.717 miles finish earth-graded road;
- (6) 430 cu. yds. class "B" concrete;
- (7) 23 cu. yds. class "M" concrete;
- (8) 12,809 lbs. reinforcing steel;
- (9) 1834 lin. ft. corr. metal pipe;
- (10) 84 each right-of-way monuments;
- (11) 1000 lin. ft. moving and resetting rail;

Plans and specifications obtainable from above on deposit of \$10, returnable. Certified check of 5% required with bid.

"Finally the architectural profession seems to be coming to an appreciation of the necessity of tearing away the evil of exclusiveness which has heretofore more or less hidden its part in the general construction scheme and acquainting the public with its usefulness," says Building Economy. A very commendable decision.

Continuing the publication says: "By the average home builder the architect has long been regarded as a luxury, more or less unnecessary and overly expensive. Neither in value nor his duties have been adequately understood. And that has been largely the architect's fault.

"He left it to the various material associations to introduce architecture of a sort into the small home field. And though they were educating the public at large to the eventual benefit of the architect, some railed at these purveyors of stock house plans.

"Today the field is ripe for the planting of the architectural idea. The stock plan has played an important part in bringing this situation about. A greater percentage of prospective builders than perhaps ever before want real architecture in their homes.

"But the architect must sell more than merely the prospect of an appealing home. It must be an architectural type and mechanically well tinkered.

"He must impress the prospective building public with the certainty that his employment will insure the use of standard, proved materials which will afford the maximum of service and durability.

"He must constitute himself a protector of the public against the sham and misrepresentation and reception in building materials, synthetic and otherwise, which has brought so many home builders to grief in recent years. He must be the mentor and guide.

"He must guarantee more than merely a pleasing design and the seeing that it is built, not botched in the building.

"The architect and the engineer are late in the same position in relation to the public. Their responsibility may be better described than Thaddeus Merriam did it in a recent issue of *Civil Engineering*, addressing the engineering profession, but it is doubtful. Merriam said:

"As every lawyer is an officer of the court, so every engineer represents the people. The interests of his im-

mediate client must always be subservient to the public safety. The duty of the engineer is fourfold: he owes responsibility to the people; loyalty to his client; honesty to himself and duty to his profession. These are the commandments which logic lays down for the engineer to follow in his every day relationships. These the student must learn, for they go beyond the logic of science into the realm of the logic of life.

"When the architect adopts these principles and puts them into such general practice that the public becomes impressed not only with his artistry but his sincerity, then will building better homes in America become something more than a convenient catch phrase."

Reports from district managers of the Bureau of Foreign and Domestic Commerce, located in principal cities of the United States, reveal a growing demand for competent carpenter contractors. "Light Frame House Construction," prepared jointly by the Federal Board for Vocational Education and the National Committee on Wood Utilization of the Department of Commerce. Although the publication has been out only a short while, the initial supply of 15,000 copies is completely exhausted and the government printing office is rushing through a second printing order. Wholesale and retail lumber dealers have been enthusiastic in their reception of the manual and have purchased it in large lots for distribution among their carpenter contacts. In a number of instances schools are using the publication as a textbook.

The general contractor will protest the action of material dealers in encouraging incompetent sub-contractors by the extension of credit, but some general contractors so protesting are encouraging the continued operations of incompetent sub-contractors by calling them in to the bidding in competition with competent sub-contractors. The competent general contractor further encourages the incompetent general contractor who is often brought into direct competition with himself by patronizing a bonding company which will write a bond for anyone. When we are prone to criticize the actions of others, it is well to consider first that our own house is in order, for indulging in unethical or unfair methods can very well prove a two-edged sword and bring about a condition in an allied trade which shortly works about to bring disaster upon our own trade. The operations of incompetents and the control of the problem is 90 per cent within the hands of the building industry itself, general contractor, architect, material dealer, sub-contractor and surety bonding company. It can be done and will be done eventually.

But, general support from the trade as a whole is essential—a support that reaches every cog in the wheel of the construction business. Without such support and effort hosts of incompetents will continue to invade the field with disastrous results, for as soon as one dies off, under present conditions there are two or three taking his place.—(Journal of Commerce).

The home construction division of Sears, Roebuck & Co. expects to build 2500 new homes and employ over 80,000 building trades workers during 1931, according to Harvey L. Harris, general manager of the division. The 1930 construction program, following the inauguration of the 15-year installment mortgage financing plan and supervised construction, used six million man-hours of labor. Operations for the first four months of 1931

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San Francisco County

No.	Owner	Contractor	Amt.
880	Loskutoff	Owner	3950
881	Hallgren	Owner	4500
882	Lux	Owner	5000
883	Morison	Owner	7000
884	De Vere	Casty	4500
885	Fidelity	Owner	1500
886	Lercari	Owner	3000
887	Ward	Owner	2800
888	Hieronimus	Doelger	6250
889	Macdonald	Owner	3000
890	Roman	Burns	4000
891	Cuthbert	Owner	3200
892	Anderson	Owner	6000
893	Buckbee	Franzen	2400
894	Montalbano	Sinale	3000
895	Fistochino	Hummer	4400
896	Hale	Oakland	2000
897	Costello	Owner	7000
898	Knutsen	Owner	1400
899	Kelling	Owner	3000
900	Janssen	Owner	12300
901	Foster	Murray	6700
902	Frugoli	Owner	7500
903	Balsels	Key	1930
904	Gicardo	Owner	3400
905	San Francisco	Owner	8000
906	Rettinger	Owner	3000
907	Campbell	Allesbrook	1400
908	Dubose	Owner	4000
909	Amalgamated	Owner	30000
900	Ray	Bienfield	10000
901	Paretich	Ravaglioli	9200
902	Doelger	Owner	12000
903	Silvestri	Lindgren	7000
904	Hancock	Owner	4000
905	Horn	Owner	7000
906	Iansson	Owner	3500
907	McCarthy	Owner	8000
908	McDonough	Owner	10000
909	Roman Catholic	Ohill	70000
910	Samuelson	Owner	6400

DWELLING
(880) E CAROLINA 150 N 22nd St.; one-story and basement frame dwelling.
Owner—W. Loskutoff, 1027 De Haro Street.
Plans by J. Anderson. \$3950

DWELLING
(881) S DARLEN WAY and Northgate Drive; one-story and basement frame dwelling.
Owner—A. Hallgren, 1594 29th Ave.
Architect—D. E. Jaekle, 744 Call Bldg. \$4500

ALTERATIONS
(882) HAMPSHIRE, Potrero Avenue, between 17th St.; alterations to school.
Owner—Lux School of Industrial Training.
Architect—W. C. Hays, 1325 First National Bank Bldg. \$5000

DWELLINGS
(883) E 29th AVE. 125 N Santiago; two 1-story and basement frame dwellings.
Owner—R. Morison, 101 Carmel St.
Plans by Owner. each \$3500

DWELLING
(884) S 24th ST. 125 E Douglass; one-story and basement frame dwelling.
Owner—Mr. and Mrs. R. De Vere, 4270 24th Street.
Architect—Not Given.
Contractor—J. Casty & Son, 4535 Mission St. \$4500

ALTERATIONS
(885) 34-40 BUCHANAN ST.; alterations to apartments.
Owner—Fidelity Bldg. & Loan Assn., 340 Kearny St.
Architect—E. A. Neumarkel, 340 Kearny Street. \$1500

ALTERATIONS
(886) 1499 THOMAS AVE.; alterations to dwelling, addition of one flat.
Owner—G. Lercari, 1499 Thomas Ave.
Plans by Owner. \$3000

DWELLING
(887) W 46th AVE. 225 N Judah St.; one-story and basement frame dwelling.
Owner—H. Ward, 149 Magellan Ave.
Architect—Not Given. \$2800

DWELLING
(888) NW COR. 17th Ave. and Quintana; 1-story and basement frame dwelling.
Owner—A. G. Hieronimus, 1339 26th Avenue.
Architect—C. F. Strothoff, 2274 15th Street.
Contractor—H. Doelger, 300 Judah St. \$6250

DWELLING
(889) S SANTIAGO 31 W 14th Ave.; one-story and basement frame dwelling.
Owner—D. Macdonald, 433 California Street.
Plans by Owner. \$3000

ADDITION
(890) NE BOSWORTH and Marsilly; addition of one story to present dwelling.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St.
Plans by Mr. Burns.
Contractor—J. Burns, 755 40th Ave. \$4000

DWELLING
(891) N KEY 100 E Lane; one-story and basement frame dwelling.
Owner—A. H. Cuthbert, 34 Keystone Way.
Plans by Owner. \$3200

FLATS
(892) SE COR. WAWONA and Vicente; two-story and basement frame (2) flats.
Owner—S. R. Anderson, 1433 7th Ave.
Architect—D. E. Jaekle, Call Bldg. \$6000

ALTERATIONS
(893) 3504 CLAY ST.; alterations to dwelling.
Owner—S. Buckbee, 3504 Clay St.

Architect—Miller & Pflueger, 580 Market Street.
Contractor—Franzen and Parent, 145 Natoma St. \$2400

ALTERATIONS
(894) E 18th AVE. and Balboa St.; alterations to raise dwelling for stores.
Owner—J. Montalbano, 1803 Ocean Avenue.
Architect—Not Given.
Contractor—W. J. Sinale, 688 4th Ave. \$3000

DWELLING
(895) NW SEARS 25 W Lawrence; one-story and basement frame dwelling.
Owner—A. Fistochini, Box 172, Colma.
Architect—Not Given.
Contractor—W. T. Hummer, 5811 Mission Street. \$4400

ALTERATIONS
(896) SW FIFTH and Market Streets; alterations to repair floor.
Owner—Hale Bros., 5th and Market Streets.
Architect—Not Given.
Contractor—Oakland Concrete & Terrazzo Co., 2227 Market St. \$2000

DWELLINGS
(897) E 33rd AVE. 250 N Ortega St.; two 1-story and basement frame dwellings.
Owner—L. Costello, 382 27th Ave.
Plans by Owner. \$3500 each

ALTERATIONS
(898) W 44th AVE. 75 N Judah St.; alterations and additions to apts.
Owner—Knut Knutsen, 1383 44th Ave.
Plans by Owner. \$1400

DWELLING
(899) E 18th AVE. 125 S Moraga; one-story and basement frame dwelling.
Owner—J. F. Kelling, 1824 Fell St.
Architect—Not Given. \$3000

DWELLINGS
(890) W 27th AVE. 25 S Cabrillo; three 1-story and basement frame dwellings.
Owner—E. A. Janssen, 811 Hearst Building.
Architect—Not Given. each \$4000

ALTERATIONS
(891) 982-986 MISSION ST.; alterations to restaurant, offices and store.
Owner—Foster Lunch System, Ltd., 986 Mission St.
Plans by Mr. Murray.
Contractor—A. B. Murray, 525 4th St. \$6700

FLATS
(892) NW RETIRO 255 S Fillmore St.; two-story and basement frame (2) flats.
Owner—E. R. Frugoli, 2549 Lombard.
Architect—Not Given. \$7500

ALTERATIONS
(893) 305 MONTEREY BLVD.; alterations to dwelling.
Owner—J. Balsels, 112 Chenery St.
Plans by Owner.
Contractor—C. Kay, 532 Brannan St. \$1930

DWELLING
(894) W RUTLAND 150 S Visitation; one-story and basement frame dwelling.

CAPITAL CITY TILE COMPANY

J. C. PALEN
Manager

914 Seventh Street

Sacramento - - - - California

Owner—G. Glardo, 938 Rutland St.
Plans by Owner. \$3400

DWELLINGS
(895) NW LAWTON 90 E 22nd Ave.; two 1-story and basement frame dwellings.

Owner—San Francisco Home Bldg. Co. 2742 Mission St.
Architect—C. F. Strothof, 2274 15th Street. each \$4000

DWELLING
(896) W 33rd AVE. 100 N Kirkham; one-story and basement frame dwelling.

Owner—E. J. Reithberg, 2483 24th Ave.
Plans by F. E. Meadowcroft, 1459 25th Avenue. \$2000

ALTERATIONS
(897) W LONDON 100 N Persia; alterations to dwelling front.

Owner—A. L. Campbell, 378 London Street.
Architect—Not Given.
Contractor—E. Allesbrook, 1127 Munich St. \$1400

ALTERATIONS
(898) 1517 BUCHANAN ST.; alterations and additions to apartments.
Owner—E. Dubose, 1517 Buchanan St.
Plans by E. Lindquist, 229 Pierce St. \$4000

GARAGE
(899) NW HERON 105 NE 8th St.; three-story and basement class B commercial garage.

Owner—Amalgamated Laundries, 385 8th St.
Architect—Hyman & Appleton, 68 Post Street. \$30,000

STORES
(900) N WEST PORTAL 115 W Viceroy; 1-story and basement frame stores.

Owner—W. R. Ray.
Lessee—F. W. Woolworth Co., Financial Center Bldg.
Contractor—D. L. Blenfeld, 666 Mission St. \$10,900

APARTMENTS & STORES
(901) SW MISSION ST. 230 NE Lowell; three-story and basement frame apartments and stores.

Owner—M. Farneth.
Plans by C. Ravaglioli.
Contractor—C. Ravaglioli, 100 Hamilton Street. \$9200

DWELLINGS
(902) E 19th AVE. 100 S Kirkham; three 1-story and basement frame dwellings.

Owner—H. Doelger, 300 Judah St.
Plans by Owner. each \$4000

FLATS
(903) W WEBSTER ST. 100 N North Point; 2-story and basement frame (2) flats.

Owner—W. Silvestri.
Plans by D. E. Jaekle, Call Bldg.
Contractor—Lindgren Bros., 64 Ramona Avenue. \$7000

DWELLING
(904) E 24th AVE. 125 S Moraga; one-story and basement frame dwelling.

Owner—R. W. Hancock, 1285 8th Ave.
Plans by Owner. \$4000

DWELLINGS
(905) E 33rd AVE. 75 N Viceroy; two one-story and basement frame dwellings.

Owner—J. Horn, 5044 Mission St.
Architect—Not Given. each \$3500

DWELLING
(906) W 26th AVE. 225 N Moraga; 1-story and basement frame dwelling.

Owner—F. Isancon, 643 Joost Ave.
Plans by Owner. \$3500

DWELLINGS
(907) W 21st AVE. 228 S Noriega; two 1-story and basement frame dwellings.

Owner—J. E. McCarthy, 1342 Funston Avenue.
Plans by Owner. each \$4000

DWELLING
(908) E 28th AVE. 100 S Judah St.; two one-story and basement frame dwelling.

Owner—J. J. McDonough, 1226 17th Avenue.
Plans by Owner. each \$5000

SCHOOL
(909) S 16th ST. 434 W Dolores St.; two-story and basement class B school.

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St.
Architect—H. A. Minton, 525 Market Street.
Contractor—Cahill Bros., 206 Sansome Street. \$70,000

DWELLINGS
(910) S CAMPBELL 233 E Rutland; two 1-story and basement frame dwelling.

Owner and Builder—A. M. Samuelson, 901 Geneva Avenue.
Plans by W. R. Welshelmer, 924 Prague St. each \$3200

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Am't.
114	S F Memorial	Hock	142,110
114	Pistochini	Hummer	4460
115	Roman	Paganini	
116	Pacific	Sorensen	1500
117	Biette	Irwin	1145
118	R. C. Archbishop	Polze	9129
119	Campbell	Allesbrook	1531
120	Craven	Mahoney	3000
121	S. P. Co.	Municipal	
122	R. C. Archbishop	Cahill	71126
123	Ray	Bienfield	17500

MEMORIAL BLDGS.
(114) TWO BLOCKS BOUNDED BY Van Ness Ave., Franklin, McAllister and Grove Sts. All work for hollow tile partitions and furring and terra cotta work for War Memorial.

Owner—The Board of Trustees of the San Francisco War Memorial of San Francisco, 451 Montgomery St., San Francisco.

Architect—A. Brown Jr. and G. A. Lansburgh, 351 Kearny St., S. F.
Contractor—Hock & Hoffmeyer, 666 Mission St., San Francisco.

Filed June 11, '31. Dated June 4, '31. On 10th of each month..... 75%
Usual 35 days..... 25%

TOTAL COST, \$142,110

Bonds (2) Contractor's \$71,055; work, \$71,055. Surety, Pacific Indemnity Co., Limit, 300 days, Opera House; 250 days, Veterans' Bldg. Forfeit, none. Plans and specifications filed.

DWELLING
(114) NW SEARS -25 W Lawrence Ave. 25x100; all work for 1-story frame dwelling and garage.

Owner—A. Pistochini, Box 172, Colma.
Architect—Not Given.
Contractor—Wm. T. Hummer, 5811 Mission Street.

Filed June 15, '31. Dated June 10, '31. Frame up..... \$1115
Plaster on..... 1115
Completed and accepted..... 1115
Usual 35 days..... 1115

TOTAL COST, \$4400
Limit, 90 days. Plans and Spec. filed.

PLAY YARD

Owner—The Roman Catholic Archbishop of San Francisco, 1100 Franklin St.

Architect—H. A. Minton, 525 Market Street.

Contractor—David Paganini, 519 California Street.

Filed June 15, '31. Dated June 11, '31. Progressive payments as work progresses.

Actual Cost plus 10%, total not to exceed \$4316.
Forfeit, \$50. Limit, Aug. 1. Plans and Spec. filed.

SIDEWALKS
(116) 445-447 SUTTER ST.; reconstruction of sidewalks.

Owner—P. G. & E. Co., 245 Market St.
Architect—Not Given.
Contractor—Sorensen and Haggmark, 2632 Harrison St.

Filed June 15, '31. Dated June 6, '31. Completion and acceptance..... 75%
Usual 35 days..... 25%

TOTAL COST, \$1500
Bond, \$1500. Sureties, Southern Surety Co. of New York. Limit, 40 days. Plans and specifications filed.

ALTERATIONS
(117) N WASHINGTON ST. between Cherry and Arguello Blvd., 3974 Washington St.; alterations and additions to residence.

Owner—Paul C. Biette.
Plans by Owner.
Contractor—James J. Irwin, 1040 Oak Street.

Filed June 16, '31. Dated June 15, '31. Frame up and roof on..... \$500
Completed and accepted..... 3500
Usual 35 days..... 287

TOTAL COST, \$1145
Bond, \$1145. Sureties, United States Guarantee Co. Limit, 60 days. Plans and Spec. filed.

HEATING & VENTILATING
(118) NW JUDAH ST. and Funston Ave. (St. Anne's Church); heating and ventilating for church.

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St.
Architect—W. D. Shea, 454 Montgomery Street.

Contractor—Andrew A. Pollia, 401 14th Avenue.

Filed June 16, '31. Dated June 12, '31. Fifth of each month..... 75%
Usual 35 days..... 25%

TOTAL COST, \$9120
Bond: \$9120, in favor of owner; \$912 guarantee materials for one year. Sureties, New Amsterdam Casualty Co. Limit, Jan. 1, 1932. Plans and Specifications filed.

RESIDENCE
(119) W LONDON 100 N Persia; all work on 1½-story residence.

Owner—Arthur L. Campbell.
Architect—Not Given.
Contractor—E. Allesbrook, 1127 Munich Street.

Filed June 16, '31. Dated June 11, '31. Roof on..... \$500
Finish plaster on..... 300
30 days after..... 231

Note secured by deed of trust..... 500
TOTAL COST, \$1531

Limit, 90 days.

ALTERATIONS
(120) W DIAMOND 185 N 23rd, 560 Diamond; alter residence into two flats.

Owner—James and Alice E. Craven, 722 Prague St.
Architect—G. A. Berger, 309 Valencia Street.

Contractor—John Mahoney.
Filed June 16, '31. Dated June 8, '31. Roof on..... \$750
Rough plaster on and rough plumbing inspected..... 750
Usual 35 days..... 750

TOTAL COST, \$3000
Bond, \$1500. Sureties, Chas. P. Murphy, John Dowd. Forfeit, \$5.

STREET WORK
(121) JAMESTOWN AVE., bet. Third and Salinas Ave., from Jamestown

Ave. to 60 NW Gould St. All work for improving streets.
 Owner—Southern Pacific Co., 65 Market St., San Francisco.
 Architect—Not Given.
 Contractor—Municipal Constr. Co., Call Bldg., San Francisco.
 Filed June 17, '31. Dated June 3, '31.
 TOTAL COST, \$—
 Bond, \$—, Surety, U. S. Guarantee Co. Limit, forfeit, plans and specifications, none.
 NOTE.—Extension of time to June 30, 1931.

TOILET ROOM

(122) S SIXTEENTH ST., bet. Dolores and Church Sts. All work for toilet roof No. 16 for school and auditorium.
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Contractor—Cahill Bros., 206 Sansome St., San Francisco.
 Filed June 17, '31. Dated June 15, '31.
 progressive payments
 TOTAL COST, \$71,126
 Bond, none. Limit, Nov. 1, 1931 (construction work); August 5, 1931, (toilet room No. 16). Forfeit, none. Plans and specifications filed.

RESIDENCE

(123) NW WEST PORTAL AVE 5 NE dividing lot Lots 3 and 4 Blk 298S-A, West Portal Park S 43' 03" W 57' N 46' 56" 47" W 98.065 N 42' 14' 59" E 57.005 E 46' 56" 47" B 98.864. All work for one-story and basement frame residence.

Owner—Wm. R. Ray, 625 St. Francis Blvd., San Francisco.
 Architect—Not Given.
 Contractor—D. L. Bienfield, 666 Mission St., San Francisco.
 Filed June 17, '31. Dated May 27, '31.
 Frame up \$4250
 Roof on 4250
 When completed 4250
 Usual 35 days 4250
 TOTAL COST, \$17,500
 Bond, \$17,500. Surety, Maryland Casualty Co. Limit, 75 days. Forfeit, \$50. Plans and specifications, none.

COMPLETION NOTICES

San Francisco County

Recorded	Accepted
June 12, 1931—S RIVERA 40 E 21st Ave E 31 x S 100. A C Johnson to whom it may concern. June 11, 1931	
June 11, 1931—LOT 44 BLK 6418, Crocker Amazon Tract, H W & M Petersen to whom it may concern.	
June 11, 1931—N O'FARRELL ST., bet. Mason and Taylor Sts., Balfour Hotel Bldg. S and M H Knight to whom it may concern. June 4, 1931	
June 11, 1931—S MONTGOMERY 65 Ave 75 N Moraga 25x120. A Peterson to G L Peterson. June 11, 1931	
June 11, 1931—NE DANTON 250 NW Cayuga NW 25xNE 100. W Fridstrom to A Berwick. June 9, 1931	
June 11, 1931—E TWENTY-THIRD Ave 75 N Moraga 25x120. A Hallgren to whom it may concern. June 11, 1931	
May 10, 1931—W 21st Ave 225 S Irving St 25x120. John E McCarthy to whom it may concern. June 8, '31	
June 10, 1931—E MIRAMAR Ave 51-78 N Eastwood Drive 40x95. Frank L. McAfee to whom it may concern. June 9, 1931	
June 10, 1931—LOTS 18, 19, 20, 21 and 22 Blk 2955-A map Sub No 6 Miraloma Park, Lot 35 blk 2955 Sub No 4 Miraloma Park. Meyer Bros to whom it may concern. June 8, 1931	

June 12, 1931—W DUBLIN 200 S Russia Ave m or l, Mary and M Kasper to Henry Erickson. June 12, 1931

June 12, 1931—E SCHWERIN 97.4 S Sunnydale Ave 56x105 8/10. A Perasso to whom it may concern. June 10, 1931

June 12, 1931—LOT 2 BLK 15, Map Crocker Amazon Tract, John Dall to whom it may concern. June 12, 1931

June 12, 1931—S LINCOLN WAY 57-6 W 23rd Ave W 25xS 100. Castle Bldg Co to Henry Horr. June 8, 1931

June 15, 1931—E 21st AVE 250 S Noriega 56x120. P F Johnson to whom it may concern. June 15, 1931

June 15, 1931—N TARAVAL 32-6 W 25th Avenue 25x100. D J Ryan to whom it may concern. June 15, 1931

June 15, 1931—E 27th Ave 175 N 104-022 SW 5th SE 110-376. M Etrovich to F Amatore. June 13, 1931

June 15, 1931—E 38th Ave 150 S Anza S 96-3/4 x E 120. N and M Costello. June 15, 1931

June 15, 1931—N 30th 355 W Nee W 25 x N 114. M and M Conway to H H Isaac. June 13, 1931

June 15, 1931—E LEE AVE 250 S Grafton Ave, 54 Lee Ave. L A and T K Moran to H Erickson. June 12, 1931

June 15, 1931—SW PALO ALTO AVE SE Quint SE 25 x SW 100 blk 322 O'Neil & Haley Tract. Zelle and Florent Blanchard to Arturo Barsotti and W E Tuomisto. June 10, 1931

June 13, 1931—SW PACIFIC AVE Trenton Place. S & G Gump Co to Barrett & Hilp. June 10, 1931

June 13, 1931—W 32nd AVE 150 S Rivera S 25 x W 120. Carl and Fred Gellert to whom it may concern. June 12, 1931

June 13, 1931—S MORAGA 57-W 17th Ave 25x100. C L Nelson to whom it may concern. June 13, 1931

June 12, 1931—E SIXTEENTH AVE 25 N Wawona N 25 x E 90. M A Callary to whom it may concern. June 12, 1931

June 16, 1931—W 45th AVE 25 N Santiago N 100 W 120 S 25 E 30 S 75 E 90. P A Smith & Co to Henry Dodelger. June 15, 1931

June 16, 1931—S CAMINO DEL MAR and W Lake St 80-441 on Camino Del Mar and Irregular depth of 130 at longest point and 99 at shortest point blk 1327 Sea Cliff, 801 Camino Del Mar. Charles J and Corinne M Carter to whom it may concern. June 15, 1931

June 16, 1931—S SUTRO HEIGHTS Ave 85 E 47th Ave 30x—. G J Elkington to Self. June 15, 1931

June 16, 1931—N BAY 50 E Taylor 50x100. E G Callaghan, E S M Grosjean, E C Sedgley and W S Terschuren to whom it may concern. June 13, 1931

June 16, 1931—E 34th AVE 175 SE Judah St S 25 x E 120. E Dahbeger to whom it may concern. June 16, 1931

Turner Co vs S and D Blaustein \$1124.83

June 11, 1931—SW SAN BRUNO Ave 134 N Burrows N 41xSW 120. The Turner Co vs B and A Stone 11647.37

June 11, 1931—SW SAN BRUNO Ave 134 NW Burrows 41xSW 120. Geo R Nelson vs B Stone. 3981.15

June 10, 1931—SW SAN BRUNO Ave 134 NW Burrows NW 41 x SW 120. E A Howard & Co vs Stone. 3241.50

June 13, 1931—N VALLEJO 15-10 W Franklin W 80 x N 137-6. L Epp vs Wm and H Van Herriek. \$211

June 12, 1931—SE EIGHTEENTH and Connecticut S 75x E 100. Mallett & Peterson vs H Parsons and P and M Aglietti. \$54

June 12, 1931—SW SAN BRUNO AV 143 N Burrows NW 41xSW 120. Frank M Phipps Co, Inc. \$39; J J Deluiche, 5241.50 vs B & A Stone

June 15, 1931—SW SAN BRUNO Ave 143 NW Burrows NW 41 x SW 120. Frank M Phipps Co, Inc vs B and A Stone. \$39

June 16, 1931—SW FLOURNEY ST 50 SE Rhine SE 25 x SW 75. Ginsberg Tile Co to R V and Jane Doe Alder and E McDonald. \$75.42

June 16, 1931—643-637 BATTERY ST J K Herzog Electric Co vs O W Nordwell Estate, W W and A W Nordwell, Mrs H Gunn, Miss E Nowell, International Sugar Co Ltd. \$963.26

RELEASE OF LIENS

San Francisco County

Recorded	Amount
June 13, 1931—S McALLISTER 137-6 E Buchanan E 27-4 x S 250. Christenson Lumber Co to Helen Dieling, Fred Wiseman.	
June 12, 1931—N ASH 137-6 E Buchanan E 27-6xN 60. C H Clayton, \$112; Adam Cranston, \$66.50 to Helene Dieling and Fred Wiseman	
June 15, 1931—E WISCONSIN 172-4 S 20th S 25 x E 100; E Wisconsin 272-6 S 20th S 50 x E 100. John Cassaretto to Frances Rodrigues.	
June 15, 1931—SE 22nd and Howard E 100 x S 100. Ready Mix Concrete Co Ltd to Sorenson & Haggmark and General Petroleum Corp.	

BUILDING PERMITS

Alameda County

No.	Owner	Contractor	Amount
693	Dull	Dull	3000
694	Smith	Toombs	7000
695	Margreiter	Owner	3000
696	Demmer	Owner	4000
697	Milton	Owner	3500
698	Kurezal	Owner	3000
699	Trimlett	Owner	4100
700	Quigley	Owner	4150
701	Nichols	Owner	2500
702	Tichenor	Schneck	5700
703	Pfrang	Owner	10000
704	Fisher	Bedell	9000
704	Shuey	Owner	3000
705	Hamberger	Muller	2000
706	Tollefsen	Owner	2850
707	Chapin	Peacock	1800
708	City of Alameda	Owner	3500
709	Lakeshore	Kane	15000
710	Powell	McBride	1000
711	Hays	Freethy	5500
712	Nilson	Owner	3000
713	Carlsen	Gaubert	5850
714	Drake	Beckett	6000
715	Couplin	Rich	7500
716	Pressler	Owner	3000
717	Smith	Merriam	5000
718	McCord	Owner	2000
719	Mercer	Austin	2000
720	Christensen	Warn	3500
721	Urch	Owner	5500
722	Danna	Towers	1475

LIENS FILED

San Francisco County

Recorded	Amount
June 11, 1931—E TWENTY-FIRST Ave 150 N Balboa N 25xE 120. The	

RESIDENCE
(692) NO. 67 WILDWOOD GARDENS, **PIEDMONT**. One-story 7-room residence and garage.
Owner—Marle Dougery, 61 Wildwood Gardens, Piedmont.
Architect—Blain & Olson, 1755 Broad-692 Dougery Larmer 10417 way, Oakland.

Contractor—Edward Larmer, 67 Wildwood Gardens, Piedmont ...\$10,447

RESIDENCE
(693) NO. 1455 ORDWAY AVENUE, **BERKELEY**. One-story 6-room 1-family frame residence and garage.
Owner—C. O. Dull, 2017 Woolsey St., Berkeley.
Architect—Not Given.
Contractor — Dull & Bredhoff, 2017 Woolsey St., Berkeley. \$3000

DWELLING
(694) 770 HILLDALE AVE., **BERKELEY**; 3-story frame and stucco residence (8 rooms and garage).
Owner—Leroy E. Smith, 1335 Haste St., Berkeley.
Architect—Not Given.
Contractor—Ray Toombs, 2218 Blake St., Berkeley. \$7000

DWELLING
(695) E 68th AVE. 130 S Arthur St., **OAKLAND**; 1-story 5-room dwelling.
Owner and Builder—C. Margreiter, 1537 27th Ave., Oakland.
Architect—Not Given. \$3000

DWELLING
(696) W DIMOND AVE. 987 N Hopkins St., **OAKLAND**; one-story 6-room dwelling.
Owner and Builder—Major M. Demmer, 3657 Dimond Ave., Oakland.
Architect—O. W. Degen, Fort Mason. \$4000

DWELLING
(697) W RANSOME AVE 300 S Santa Rita St., **OAKLAND**. One-story 6 room dwelling.
Owner—C. E. Milton, 5142 Bond St., Oakland.
Architect—Not Given. \$3500

ADDITION
(698) NO. 154 SANTA CLARA AVE., **OAKLAND**. Addition.
Owner—Otto Kuerzal, Premises.
Architect—Not Given. \$1500

DWELLING
(699) NO. 6316 MONADNOCK WAY, **OAKLAND**. One-story 5-room dwelling and one-story garage.
Owner—Robert Trimlett, 4340 Fleming Ave., Oakland.
Architect—Not Given. \$4100

DWELLING
(700) N SANTA RAY AVE 400 E Paloma Ave., **OAKLAND**. One-story 6-room dwelling one one-story garage.
Owner — Chas. E. Quigley, 464 Van Buren Ave., Oakland.
Architect—Not Given. \$4150

DWELLING
(701) N FOOTHILL BLVD. 250 E 77th Ave., **OAKLAND**. One-story 6-room 2-family dwelling.
Owner—H. J. Nichols, 7716 Foothill Blvd., Oakland.
Architect—Not Given. \$2500

DWELLING
(702) N FERNWOOD DR. 400 E Duncan Way, **OAKLAND**. One-story five-room dwelling.
Owner—Dr. Wit C. Tichenor, Dayton Ave., Alameda.
Architect—Not Given.
Contractor—A. W. Schneck, 3561 Redwood Road, Oakland. \$5700

DWELLINGS
(703) N FIFTY-SIXTH ST. 100 and 137 W. Geary Ave., **OAKLAND**. Two one-story 6-room dwellings.
Owner—C. J. Pftrang, 6300 Claremont Ave., Oakland.
Architect—Not Given. \$5000 each

RESIDENCE
(704) NO. 140 S-HAMPTON ROAD, **BERKELEY**. Two-story 12-room 1-family frame and stucco residence.
Owner—H. O. Fisher, 701 Arlington Ave., Berkeley.
Plans by George J. Lane, 909 Spruce St., Berkeley.
Contractor — Bedell & Lane, 909 Spruce St., Berkeley. \$9600

CREAMERY
(704) NO. COR. McAULEY and Telegraph Ave. **OAKLAND**; one-story brick creamery building.
Owner and Builder—Edna Grant Shuey, 2738 Benvenue Ave., Berkeley.
Architect—Gwynn Officer, Hotel Claremont, Berkeley. \$9000

CONCRETE FOUNDATION
(705) W BROADWAY 100 N 20th St., **OAKLAND**; concrete foundation.
Owner—Hamberger and A. E. Kerr.
Architect—Reed and Corlett, Oakland Bank Bldg., Oakland. \$2000
Contractor—F. A. Muller, 905 Syndicate Bldg., Oakland. \$2000

DWELLING
(706) E 96th AVE. 70 S Elmar Ave., **OAKLAND**; 1-story 5-room dwelling.
Owner and Builder—C. Tollefsen, 430 Foothill Blvd., Oakland.
Architect—Not Given. \$2850

ADDITIONS
(707) NO. 862 WALNUT ST., **ALAMEDA**. Add to present frame dwelling.
Owner—R. E. Chaplin, 862 Walnut St., Alameda.
Architect—Not Given.
Contractor—John Peacock, 2512 Chester St., Alameda. \$1800

ALTERATIONS
(708) NO. 2371 ALAMEDA AVE., **ALAMEDA**. Alter home into office for Board of Education.
Owner—City of Alameda.
Architect—Not Given. \$3500

SUNDAY SCHOOL
(709) E LAKESHORE AVE. 90 North Mandana Blvd., **OAKLAND**; two-story 14-room Sunday School.
Owner—Lakeshore Sunday School, 26th and Broadway, Oakland.
Architect—Hardman & Russ, Berkeley
Contractor—Harry E. Kane, 921 Ramona Ave., Oakland. \$15,000

ALTERATIONS
(710) 410-412 E 19th STREET, **OAKLAND**; alterations.
Owner—Mr. Powell, 4127 Broadway, Oakland.
Architect—Not Given.
Contractor—R. C. McBride, Jr., 4127 Broadway, Oakland. \$1000

DWELLING
(711) S CLARENDON CRESCENT 75 E Mandana Blvd., **OAKLAND**; 1½ story 6-room dwelling.
Owner—M. A. Hays, 2218 MacDonald Ave., Richmond.
Architect—Not Given.
Contractor—Elmer J. Frechty, 224 16th St., Richmond. \$5500

DWELLING
(712) E 68th AVE. 185 S Trenor St., **OAKLAND**; one-story five-room dwelling.
Owner and Builder—N. F. Nilson, 5425 El Camille Ave., Oakland.
Architect—Not Given. \$3000

DWELLING
(713) N CLEMENS ROAD 100 West Waterhouse Road, **OAKLAND**; 1½ story 7-room dwelling.
Owner—Sven Carlsen, 3563 Rhoda Ave. Oakland.
Architect—Not Given.
Contractor—Gaubert Bros. 4735 Brookdale Ave., Oakland. \$9500

DWELLING
(714) W GOLDEN GATE AVE., 250 E Cross Roads, **OAKLAND**; one-story 7-room dwelling.
Owner—Mrs. Nellie Drake, 624 Scenic Ave., Piedmont.
Architect—E. L. Snyder, 2100 Shattuck Ave., Berkeley.
Contractor—Beckett & Wight, 722 Scenic Ave., Oakland. \$6000

DWELLING
(715) S HARWOOD AVE., 200 East Rosst St., **OAKLAND**; two-story 7-room dwelling.
Owner—J. H. Coupin, 376 60th Street, Oakland.
Architect—A. W. Smith, 1540 San Pablo Ave., Oakland.
Contractor—C. D. Rich, 4627 Fleming Ave., Oakland. \$7500

DWELLING
(716) 2539 73rd AVE., **OAKLAND**; 1-story 5-room dwelling.
Owner and Builder—Walter Pressler, 1419 Excelsior Ave., Oakland.
Architect—Not Given. \$3000

DWELLING
(717) NO. 850 CARY DRIVE, **SAN LEANDRO**. One and one-half-story six-room dwelling.
Owner—Verne Smith, 2716 77th Ave., Oakland.
Architect—Not Given.
Contractor—Jas. Merriman, 1430 86th Ave., Oakland. \$5000

DWELLING
(718) E KAPHAM AVE 168 N Fair Ave., **OAKLAND**. One-story 4-room dwelling.
Owner—J. A. McCord, 3453 Davis St., San Francisco.
Architect—Not Given. \$2000

FACTORY
(719) N TWENTY-FOURTH ST. 150 E Peralta St., **Oakland**. One-story factory.
Owner—Merco Nordstrom Mfg. Co., 24th and Peralta Sts., Oakland.
Architect—Not Given.

Member Insurance Brokers' Exchange

FRED H. BOGGS INSURANCE

490 GEARY STREET

Phone FRanklin 9400 San Francisco

Contractor—Austin Co. of Calif., 750 Ray Bldg., Oakland. \$2000

DWELLING
(729) N TRASK ST. 40 E Cole St., OAKLAND. One-story 6-room dwelling.
Owner—A. Christensen.
Architect—Not Given.
Contractor—Warn Bros., 419 E. Merle Court, San Leandro. \$3500

DWELLING
(721) SW BROOKDALE AND BEST Aves., OAKLAND. One-story six-room dwelling.
Owner—E. W. Urch, 1924 50th Ave., Oakland.
Architect—Not Given. \$5500

DWELLING
(723) NO. 4129 WEST ST. (rear). OAKLAND. One-story 3-room dwelling and one-story garage.
Owner—Sam Danna, 4129 West St., Oakland.
Architect—Not Given.
Contractor—Ray Towers, 2508 Benvenue Ave., Berkeley. \$1475

BUILDING CONTRACTS

Alameda County

No.	Owner	Contractor	Am't.
97	Fisher	Lane	—
98	Dougery	Larmer	10447
99	Sisters	Aschen	2888
100	Alameda	Matson	11039
101	Oakland	Stolte	32870

RESIDENCE
(97) PTN LOT 2 BLK 4, Arlington Villa Sites, Berkeley; general construction on 2-story and basement residence.
Owner—Howard O. and Zoe J. Flsher, 701 Alameda Ave., Berkeley.
Architect—Not Given.
Contractor—R. Beadle and George J. Lane, 909 Spruce St., Berkeley.
Filed June 12, '31. Dated May 25, '31.
End of each month, amount of all bills paid by contractor during the preceding month. Total Cost plus 8% Limit, 150 days.

RESIDENCE
(98) LOT 17, Wildwood Gardens No. 3, Piedmont. All work for residence.
Owner—Marie G. Dougery, Oakland.
Architect—Blaine & Olson, 1755 Broadway, Oakland.
Contractor—E. W. Larmer, 90 Fairview Ave., Oakland.
Filed June 13, '31. Dated June 2, '31.
On 3rd and 15th of each month 75% Usual 35 days. TOTAL COST, \$10,447
Bond, limit, forfeit, none. Plans and specifications filed.

HEATING
(99) ON LAND BOUNDED by Edith St., Dullich Road, Jacobus Avenue and Morpeth St., Oakland (Maryrose Elementary School); materials, labor, vacuum pumps, piping, radiators, foot warmers, etc., connected with heating.
Owner—Sisters of the Sacred Names of Jesus and Mary.
Architect—H. A. Minton, 525 Market St., San Francisco.
Contractor—W. A. Aschen, 3000 E 16th St., Oakland.
Filed June 16, '31. Dated June 1, '31.
Assigned by owners to Thomas F. L. Furlong.
Payments Not Given. TOTAL COST, \$2888
Bond, \$1444. Sureties, Fireman's Fund Indemnity Co. Limit, Aug. 15, 1931. Plans and Spec. filed.

ELECTRICAL WORK
(100) PTN LOT 8 BLK 49, Lands ad-

acent to town of Enclinal, Alameda; electrical work required for theatre and store building.

Owner—Alameda Amusement Co.
Architect—J. R. Miller & T. L. Pfeuenger, 580 Market St., San Francisco.
Contractor—Matson - Seabrooke Co., 4115 Broadway, Oakland.
Filed June 16, '31. Dated June 12, '31.
5th day of each month.....75%
Usual 35 days after.....25%
TOTAL COST, \$11,039
Bond, \$11,039. Sureties, Fidelity and Deposit Co. of Maryland. Plans and Spec. filed.

LAUNDRY
(101) 730 29th St. being lots 7, 8, 9, 10, 11, 28, 29, 30, 31, 32, 33 and 34 Bldk C Brookhurst Tr'ct, Oakland; all work one 1-story and mezzanine brick laundry building.
Owner—Oakland Laundry Co., 730 29th St., Oakland.
Architect—Miller & Wernecke, Financial Center Bldg., Oakland.
Contractor—F. C. Stolte, 3449 Laguna St., Oakland.
Filed and dated June 16, 1931.
When brick walls are up to bottom of cord trusses.....\$8,217.50
When interior plastering completed.....8,217.50
When completed.....8,217.50
Usual 35 days.....8,217.50
TOTAL COST, \$32,870
Limit, 60 calendar days. Plans and Spec. filed.

COMPLETION NOTICES

Alameda County

Recorded Accepted

June 15, 1931—LOT 9 BLK E, Resub'd Fruitvale Addn Tract, Oakland. Mrs. Agnes and Wm. Gracey to C T Moore and H D Overton.....June 15, 1931

June 16, 1931—LOT 152, Fremont Tract, Oakland. Louis E Van Ness to Self.....June 16, 1931

June 16, 1931—ESTATE of MRS I W Hellman, Jr. north of Foothill Blvd and opposite Durant Avenue, Oakland. Lloyd W and Florence H Dinkelspiel (tenants in possession) to A F and C W Mattock.....June 8, 1931

June 16, 1931—NW WYMAN ST 17th NE of Camden St, 3237 Wyman St, Oakland. Walno A Watson to Self.....June 15, 1931

June 15, 1931—1201 GILMAN Street, Berkeley. Antonio Simoncini to whom it may concern.....June 12, 1931

June 13, 1931—W SHAFER AVE 150 S of 28th St, Oakland. Roy M Berryhill to Karnak Tile & Mantel Company.....June 12, 1931

June 13, 1931—969 73rd AVE, Oakland. F W Conlogue to whom it may concern.....June 12, 1931

June 13, 1931—LOT 7, Estudillo Estates, San Leandro. Robert B and Eleanor A Girdwood to whom it may concern.....June 11, 1931

June 12, 1931—NO 414 MAPLE Ave., Oakland. Henry A Pleitner to William Watson.....June 10, 1931

June 12, 1931—NO. 2487 EIGHTIETH Ave, Oakland. C F Lodge to whom it may concern.....June 13, 1931

June 13, 1931—LOTS 48, 49, Arnold Boulevard Tract, Oakland. Ethel D Magoon to whom it may concern.....June 8, 1931

June 11, 1931—LOT 4, Mount Vernon Park Tract, Oakland. C W and Mary Belle Leekins to whom it may concern.....June 8, 1931

June 11, 1931—NO. 604 SANTA FE Ave, Albany. A J Pollard to A J Pollard.....June 10, 1931

June 11, 1931—NO. 1521 MINTURN St., Alameda. Margaret H and Otto Best to I A Farringer.....June 8, 1931

June 11, 1931—LOT 4 BLK 11, Highland Manor, Oakland. Warn Bros

to Warn Bros.....June 11, 1931

June 16, 1931—SW YORK DRIVE & Cambridge Way, Piedmont. Oscar O T McAllister to Edward W Larmer.....June 6, 1931

June 16, 1931—3974 FOREST HILL Ave, Oakland. Andrew Fleming to whom it may concern.....June 10, 1931

June 10, 1931—PTN OF THAT 37-17 acre tract of land firstly desc in a certain deed from Realty Syndicate Company to California Memorial Hospital dated July 16, 1919 and recorded in Vol 2796 of Deeds and recorded in H L Valleroy.....June 10, 1931

LIENS FILED

Alameda County

Recorded Amount

June 16, 1931—5591 COUNTRY Club Drive, Oakland. Mastercraft Tile & Roofing Co vs J M and Anna K Olson and Claremont Pines Corp.....\$903.20

June 16, 1931—LOTS 48 and 49, Arnold Blvd Tract, Oakland. Berkeley Bldg Materials Co vs E B and Ethel D Magoon.....\$300

June 16, 1931—PTN LOT 44 BLK 6, Result of ptn of North Cragmont, Berkeley. W J Roth doing business as Standard Mill & Lbr Co vs Jack and Anna Sarrah Smith, E R Converse.....\$350.90

June 16, 1931—2520 MARIN AVE, Berkeley. C S Lane vs H A and Jane Doe Brown, Earl Converse, Jane Doe, Richard Roe, The White Co.....\$51.20

June 13, 1931—LOTS 148-149-150 and 151, East 14th Street Terrace, San Lorenzo. Wm Fruener vs A E Pelton.....\$643

June 13, 1931—LOT 39 BLOCK A, Claremont Pines, Oakland. East Bay Sand & Gravel Co vs J M and Anna K Olson.....\$365.28

June 13, 1931—4026 LYON AVENUE, Oakland. Bear Flooring Co vs H I and Mary R Anderson.....\$110.67

June 13, 1931—NE LINE MARIN Ave and W Cragmont Ave, Berkeley. Markus Hardware Company vs Jack Smith, Anna Sarrah, E R Converse.....\$119.20

June 12, 1931—INTERSECTION SE Marip Ave and W line Cragmont St, Berkeley. Swift Lumber Co vs Anna Sarrah and Jack Smith and Earl Converse.....\$226.01

June 12, 1931—NO. 2740 JONES AVE Oakland. Henry E Henriksen vs Filten and Maude Spurlock.....\$293.28

June 11, 1931—LOT 9 BLK 13, Arnold Tract, Berkeley. Herbert G Johnson vs Joe Magcano.....\$175

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded Amount

June 11, 1931—LOT 3 BLK 5, Revised Map of Rock Ridge Park, Oakland. Chas C Riggle to Ellen Williams and Jessie H MacMahon.....\$145

BUILDING CONTRACTS

SAN MATEO COUNTY

ALTERATIONS
BURGLING. All work for remodeling and addition to 1-story frame and stucco frame hall.
Owner—Burlingame Post American Legion, Post No. 163, Burlingame.
Architect—Ernest L Norberg, 530 Market St., San Francisco.
Contractor—Ingvar Sorenson, 1128 Lincoln Ave., Burlingame.
Filed June 8, '31. Dated June 5, '31.

As work progresses... 75%
Usual 35 days... 25%
TOTAL COST, as agreed
Bond, none. Limit, 65 working days.
Forfeited, \$3. Plans and specifications
filed.

BUILDING
LOT 14 BLK 21, Millbrae Highlands.
All work for building.
Owner—Paul Werner
Architect—Not Given.
Contractor—L. A. Belcher.
Filed June 8, '31. Dated May 1, '31.
As work progresses...
TOTAL COST, \$—
Bond, none. Limit, 100 days. For-
feited, plans and specifications filed.

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$4500; Florin Ave., Ber-
estford; owner, William Auerbach
contractor, Herman Bucan.
RESIDENCE, \$5000; No. 443 N-Idahu
St., San Mateo; owner and con-
tractor, Antone Tanca.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
June 8, 1931—LOTS 20 AND 21 BLK	June 8, 1931—LOTS 55 AND 56 BLK
50, North Fair Oaks. Abel Fer-	55, North Fair Oaks. U. L. Jean to
nandez to R D Squires. June 4, 1931	whom it may concern. June 8, 1931
June 8, 1931—LOT 7 BLK 26, East	June 10, 1931—LOT 7 BLK 26, East
San Mateo. Lenor R Lukens to	San Mateo. Lenor R Lukens to
whom it may concern. June 8, 1931	whom it may concern. June 8, 1931
June 10, 1931—LOT 12 BLK 6,	June 10, 1931—LOT 12 BLK 6,
Edgewood Park. Eric Standquist	Edgewood Park. Eric Standquist
to whom it may concern. June 10, 1931	to whom it may concern. June 10, 1931
June 12, 1931—LOTS 9 AND 10,	June 12, 1931—LOTS 9 AND 10,
Woodland Place. A Radvaj to A	Woodland Place. A Radvaj to A
C Heald. June 12, 1931	C Heald. June 12, 1931
June 12, 1931—LOT 66 BLK 2, Jef-	June 12, 1931—LOT 66 BLK 2, Jef-
ferson Park. Castle Bldg Co to	ferson Park. Castle Bldg Co to
Henry Horn. June 8, 1931	Henry Horn. June 8, 1931
June 12, 1931—PART LOT 22 BLK 7,	June 12, 1931—PART LOT 22 BLK 7,
Park Lots 4 and 5 Blk 5, Part Lots	Park Lots 4 and 5 Blk 5, Part Lots
2 and 3 Blk 4, Blossom Heater	2 and 3 Blk 4, Blossom Heater
Manor, San Mateo. Castle Bldg	Manor, San Mateo. Castle Bldg
Co to Henry Horn. June 2, 1931	Co to Henry Horn. June 2, 1931
June 12, 1931—LOT 60 BLK 2, Jef-	June 12, 1931—LOT 60 BLK 2, Jef-
ferson Park, San Mateo. Castle	ferson Park, San Mateo. Castle
Bldg Co to Henry Horn. June 2, 1931	Bldg Co to Henry Horn. June 2, 1931
June 13, 1931—PARCEL OF LAND	June 13, 1931—PARCEL OF LAND
2.581 Acres Carolands. Albert J	2.581 Acres Carolands. Albert J
Watson to Oscar L Cavanagh. June	Watson to Oscar L Cavanagh. June
13, 1931	13, 1931

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
June 8, 1931—PART LOT 12 BLK 9,	June 8, 1931—PART LOT 12 BLK 9,
Menlo Oaks A Backlund, \$182;	Menlo Oaks A Backlund, \$182;
Palo Alto Lumber Co, \$68.85 vs T	Palo Alto Lumber Co, \$68.85 vs T
J Gilligan et al	J Gilligan et al
June 8, 1931—LOT 4 BLK A, Foy's	June 8, 1931—LOT 4 BLK A, Foy's
Redwood Gardens. Sam B Goss vs	Redwood Gardens. Sam B Goss vs
W W Sterremme. June 8, 1931	W W Sterremme. June 8, 1931
June 9, 1931—PART RANCHO Corral	June 9, 1931—PART RANCHO Corral
de Tierra Palomas. Alhin S	de Tierra Palomas. Alhin S
Hatch Rlias vs Louis Miguel, \$951.11	Hatch Rlias vs Louis Miguel, \$951.11
Recorded	Amount
June 12, 1931—LOT 5 BLK A, Fay's	June 12, 1931—LOT 5 BLK A, Fay's
Redwood Gardens. Arnold Smith vs	Redwood Gardens. Arnold Smith vs
Fred E Erdman. June 12, 1931	Fred E Erdman. June 12, 1931
June 12, 1931—LOT 7 BLK 20, East	June 12, 1931—LOT 7 BLK 20, East
San Mateo. Malott & Peterson vs	San Mateo. Malott & Peterson vs
Morris R Lukens et al. June 12, 1931	Morris R Lukens et al. June 12, 1931

BUILDING PERMITS

PALO ALTO

RESIDENCE, rustic, \$2750; No. 703
Awheris St., Palo Alto; owner, J.

U Simmons; contractor, Roy
Heald, 636 Webster St., Palo Alto.
RESIDENCE, stucco, \$—; No. 530
Bowdoin St., Palo Alto; owner, L.
M. G. Peterson, 540 Lowell Ave.,
Palo Alto; contractor, C. E. Fin-
rell, % Owner.
RESIDENCE, stucco, \$3000; No. 325
Bowdoin St., Palo Alto; owner, L.
M. G. Peterson, 540 Lowell Ave.,
Palo Alto; contractor, C. E. Fin-
rell, % Owner.
RESIDENCE, 2-story, & garage, \$15-
000; No. 380 Coleridge Ave., Palo
Alto; owner, S. Bendheim; archi-
tect, H. H. Gutterson, 526 Powell
St., San Francisco; contractor, D.
B. Gladstone, 557 Market St., San
Francisco.

ADDITION to classroom, \$1500; No.
143 Wilson St., Palo Alto; owner,
R. D. Kelly; contractor, Da Mant
Bros., 526 Central St., Palo Alto.
RESIDENCE, frame and stucco, two-
story and garage, \$6900; No. 2045
Tasso St., Palo Alto; owner, Eugene
L. Grant, 1325 College Ave.,
Palo Alto; contractor, Osborne &
Knight, Mt. View.
RESIDENCE, frame and stucco, two-
story and garage, \$13,500; No. 1620
Cowper St., Palo Alto; owner, Mrs.
Emilie E. Wilhaven; architect,
Chas. K. Sumner, 37 Post St., San
Francisco; contractor, Wm. Short,
2121 Waverly St., Palo Alto.
RESIDENCE, frame and stucco, two-
story and garage, \$4500; No. 1725
Fulton St., Palo Alto; owner, J. C.
Trimp; contractor, W. H. Anderson,
Premises.

BUILDING PERMITS

BURLINGAME

RESIDENCE, \$6000; Lot 9 Blk 63 E 7
Monterey St., Burlingame; owner,
F. F. Furrows, 1135 Laguna Ave.,
Burlingame; contractor, G. W.
Williams Co., Crawford Blvd., Bur-
lingame.

BUILDING PERMITS

REDWOOD CITY

ADD to dwelling, \$2000; No. 330 Myrtle
St., Redwood City; owner, Marie
E. Bennett; contractor, E. A.
Florence, 229 Hillview St., Red-
wood City.
DWELLING, frame, \$1000; No. 424 E.
Brewster Ave., Redwood City;
owner, Mrs. Elizabeth Smith, 271
Baldwin Ave., San Mateo; con-
tractor, C. Archibald, 311 Arguello
Blvd., Redwood City.
STORE building, one-story reinforced
concrete, \$4000; No. 733-35 El
Camino Real, Redwood City; own-
er and contractor, D. Houle, 162
Grand St., Redwood City.
DWELLING and garage, frame, \$4000;
No. 1141 Fay St., Redwood City;
owner and contractor, Ivan D.
Peterson, 832 Pepper Ave., Bur-
lingame.

BUILDING PERMITS

STOCKTON

BARN, horse, \$2000; County Fair
Grounds, Stockton; owner, San
Joaquin County Fair Assn.; con-
tractor, Lewis & Green, Bank of
Italy Bldg., Stockton.
RESIDENCE, brick veneer, one and
one-half-story, \$5700; No. 1605 N-
Yosemite St., Stockton; owner, L.
Lagle, 1605 N-Yosemite St., Stock-
ton; contractor, E. Merle, More-
ings Lane, Stockton.
ADD to dwelling, \$1000; No. 650 S-
Central Ave., Stockton; owner, J.
M. McDonald, Premises; contrac-
tor, Wm. J. Scott, 1661 W-Poplar
St., Stockton.

DWELLING, rustic 5-room and gar-
age, \$3500; No. 1370 N-Orange
St., Stockton; owner and builder,
Robert Wagner, Bank of Italy
Bldg., Stockton.
DWELLING, 2-story 6-room and gar-
age, \$4000; No. 1506 W-Walton
St., Stockton; owner and builder,
Anton Larson, 123 W-Maple St.,
Stockton.
BARN, hog, \$9000; County Fair
Grounds, Stockton; owner, County
Fair Association; contractor, Carl
Nelson, 1421 E-Channel St.,
Stockton.

DWELLING, brick veneer, 6-room
and garage, \$4500; No. 1811 North
Commerce St., Stockton; owner,
Silvio Moranco; contractor, C. H.
Barton, 1014 N-Wilson Way, Stock-
ton.

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded	Accepted
June 11, 1931—LOT 9 BLK 11, Pac- ific Manor, Stockton. Elizabeth	June 11, 1931—LOT 9 BLK 11, Pac- ific Manor, Stockton. Elizabeth
M Frost to L A Randolph and W	M Frost to L A Randolph and W
M West. June 16, 1931	M West. June 16, 1931
June 11, 1931—LOT 17 BLK 2, Lake- view. L A Randolph to Randolph	June 11, 1931—LOT 17 BLK 2, Lake- view. L A Randolph to Randolph
& West. June 9, 1931	& West. June 9, 1931
June 12, 1931—LOT 7 BLK 4, Map of Lonita Park, Stockton. J M	June 12, 1931—LOT 7 BLK 4, Map of Lonita Park, Stockton. J M
Heltzer to whom it may concern.	Heltzer to whom it may concern.
June 10, 1931	June 10, 1931
June 9, 1931—LOT 4 BLK 11, Sub- division No. 2, Tuxedo Park. S	June 9, 1931—LOT 4 BLK 11, Sub- division No. 2, Tuxedo Park. S
C Giles to whom it may concern.	C Giles to whom it may concern.
June 12, 1931	June 12, 1931
June 13, 1931—LOT 2 BLK 3, Lake- view. Myrtle A Cezar to whom	June 13, 1931—LOT 2 BLK 3, Lake- view. Myrtle A Cezar to whom
it may concern. June 12, 1931	it may concern. June 12, 1931

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded	Accepted
June 15, 1931—LOT 5 AND W 1/2	June 15, 1931—LOT 5 AND W 1/2
Lot 6 Blk 16, Richmond Boulevard	Lot 6 Blk 16, Richmond Boulevard
Tract, Richmond. J A Petersen to	Tract, Richmond. J A Petersen to
whom it may concern. June 12, 1931	whom it may concern. June 12, 1931
June 15, 1931—LOT 7 AND E 1/2 Lot	June 15, 1931—LOT 7 AND E 1/2 Lot
6 Blk 16, Resurvey of Richmond	6 Blk 16, Resurvey of Richmond
Bldg Tract. J A Petersen to	Bldg Tract. J A Petersen to
whom it may concern. June 12, 1931	whom it may concern. June 12, 1931
June 9, 1931—LOT 6 BLK 219-A	June 9, 1931—LOT 6 BLK 219-A
Central Addition to Pittsburg. G	Central Addition to Pittsburg. G
E Seeno to whom it may concern	E Seeno to whom it may concern
June 6, 1931	June 6, 1931
June 9, 1931—LOT 4 BLK 219-A	June 9, 1931—LOT 4 BLK 219-A
Central Addition to Pittsburg. G	Central Addition to Pittsburg. G
E Seeno to whom it may concern	E Seeno to whom it may concern
June 6, 1931	June 6, 1931
June 12, 1931—RANCHO SAN RA- mon. E A Root to whom it may	June 12, 1931—RANCHO SAN RA- mon. E A Root to whom it may
concern. June 10, 1931	concern. June 10, 1931
June 12, 1931—LOTS 18 & 19, BLK	June 12, 1931—LOTS 18 & 19, BLK
85, amended City of Richmond.	85, amended City of Richmond.
Alice E Martin to whom it may	Alice E Martin to whom it may
concern. June 6, 1931	concern. June 6, 1931
Recorded	Accepted
June 11, 1931—NW OF TOWN OF	June 11, 1931—NW OF TOWN OF
Concord. California Water Ser- vice Co to Farris & Gardner. June	Concord. California Water Ser- vice Co to Farris & Gardner. June
6, 1931	6, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded	Amount
June 13, 1931—LOT 9 BLK 10,	June 13, 1931—LOT 9 BLK 10,
Printed Addition to Walnut Creek.	Printed Addition to Walnut Creek.
W H Timmons vs J Raine and A	W H Timmons vs J Raine and A
Sims. June 12, 1931	Sims. June 12, 1931
June 11, 1931—SECTIONIZED PFTY	June 11, 1931—SECTIONIZED PFTY
Antone Peterson to Pacific Hotel	Antone Peterson to Pacific Hotel
Resorts Ltd & Byron Hot Springs	Resorts Ltd & Byron Hot Springs
Inc. June 11, 1931	Inc. June 11, 1931
June 11, 1931—LOT 7 and Ptu Lot 6	June 11, 1931—LOT 7 and Ptu Lot 6
Blk 55, Richmond Annex. Sterling	Blk 55, Richmond Annex. Sterling
Lumber Co vs L C and Rose Need- ham. June 11, 1931	Lumber Co vs L C and Rose Need- ham. June 11, 1931

COMPLETION NOTICES

MARIN COUNTY

Recorded Accepted
 June 12, 1931—SAN ANSELMO.
 Laura Zimmerman to E E Vaughan
 June 11, 1931
 June 5, 1931—TOWN OF ROSS, Mrs
 F Jones to Fred W Schaefer.....
 June 1, 1931

COMPLETION NOTICES

SONOMA COUNTY

Recorded Accepted
 June 9, 1931—LOT 4 BLK H, Mer-
 riam Addition to Santa Rosa, Ben
 R and Carol R Corbin to C W
 Hansen..... June 5, 1931
 June 11, 1931—NO. 711 OAK ST.,
 Santa Rosa, Leona Cornish to
 whom it may concern June 11, 1931

LIENS FILED

SONOMA COUNTY

Recorded Amount
 June 12, 1931—NW ¼ OF SW ¼
 of Sec. 36 T 8 N R 8 W—40 acres
 June 13, 1931—acres of W side of said
 40 acres. E W White Lumber Co
 vs Kate Parker\$1499.63

COMPLETION NOTICES

MONTREY COUNTY

Recorded Accepted
 June 9, 1931—W N-MAIN ST., Sa-
 linas, Charles Marcet to Tom Bis-
 sett..... June 8, 1931
 June 10, 1931—LOT 18 BLK 23, Map
 of Monte Regio No. 1. Harry R
 Mitchner to W C Mann, June 9, 1931
 June 10, 1931—LOT 121 Amended
 Map of Pebble Beach, Monterey,
 Chester L and Marian F Conlon
 to W B Snook..... June 3, 1931
 June 12, 1931—SE PTN OF LOT 1
 Blk A-1, Map of Castroville. Sea-
 side Oil Co to J S Boyd, June 9, 1931
 June 15, 1931—F I S H E R M A N ' S
 Wharf at Monterey, Union Oil Co
 to Ben C Gerwick, Inc. June 13, 1931

BUILDING CONTRACTS

SACRAMENTO COUNTY

WAREHOUSE
 LOTS 20-21-28-29, 16th STREET; pub-
 lic bean cleaning warehouse. E
 Owners—A. R. Meister and Maude G.
 Meister, 1204 29th St.
 Architect—Not Given.
 Contractor—Campbell Const. Co., 809
 B Street.
 Filed and Dated
 Payments Not Given.
 TOTAL COST, \$19,299

BUILDING PERMITS

SACRAMENTO

HOUSE and garage, \$6350; No 2977
 Gowan Way, Sacramento; owner &
 builder, Land Drive Terrace, 1109
 Robertson Way, Sacramento.
 HOUSE and garage, \$4850; No. 1161
 Robertson Way, Sacramento; owner
 and builder, Land Drive Ter-
 race, 1109 Robertson Way, Sacra-
 mento.
 HOUSE and garage, \$4000; No. 3901
 Third Ave., Sacramento; owner and
 builder, W. Gallup, 3909 3rd Ave.,
 Sacramento.
 HOUSE and garage, \$6000; No 2201
 Ninth Ave., Sacramento; owner &
 builder, N. Halset, 2870 Castro
 HOUSE and garage, \$3000; No. 3542
 D St., Sacramento; owner and
 Way, Sacramento.
 builder, Klein Realty Co., 1009 8th
 St., Sacramento.

RAISE house, \$1000; No. 2733 Fifth
 Ave., Sacramento; owner, G. W.
 Ochsner, 2725 5th Ave., Sacra-
 mento; contractor, G. Phillips, %
 Owner.
 INSTALL heating system, \$34,000; No.
 813-820 K St., Sacramento; owner,
 Kress Co., Premises; contractor,
 Jones Heating Co.
 DWELLING and garage, \$5000; No.
 2728 13th St., Sacramento; owner,
 A. L. Chargin, 2021 8th St., Sacra-
 mento; contractor, A. S. Hac-
 kett, 754 36th St., Sacramento.
 DWELLING and garage, \$5000; No.
 1149 Ewanstron Drive, Sacramento;
 owner, Ed. Wilmuder, 2325 23rd
 St., Sacramento; contractor, H. C.
 Prince, 3500 23rd St., Sacramento.
 DWELLING and garage, \$5000; Lot 28
 Jenkins Oaks, Sacramento; owner
 and builder, E. Sydenstricker, 917
 Sonoma Way, Sacramento.
 HOUSE and garage, \$6000; No. 1561
 12th Ave., Sacramento; owner, A.
 Regart, 2833 32nd St., Sacramento

June 13, 1931—LOT 196 Terminal
 Tract, Sacramento. R A Jiral vs
 Clara and P F Kohutek.....\$1000
 June 13, 1931—LOTS 3 TO 11, Al-
 hambra Tract, Sacramento. Fred
 Kaiser vs Edward Wahl and Ed-
 ward Pease\$5400

BUILDING PERMITS

FRESNO

ALTERATIONS and additions, \$2000;
 No. 1364 E. St., Fresno; owner, F.
 Orlando, 1364 E St., Fresno.
 DWELLING and garage, \$2000; No.
 3747 Nevada Ave., Fresno; owner
 and builder, J. L. Scherer, 2902
 Olive St., Fresno.
 DWELLING and garage, \$3500; No.
 1265 N-Cabrera Ave., Fresno;
 owner and builder, W. H. Rich-
 mond, 1279 Adoline St., Fresno.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 June 9, 1931—LOT 51, parts Lot 50
 and 52 Blk 11, College Addition,
 Fresno. A F Lambert and A E
 Wilhelm to whom it may concern
 June 8, 1931
 June 9, 1931—LOTS 1 AND 10 BLK
 54, Sierra Vista Addition No. 2,
 Fresno. E F Buck to Thos W
 Griffith May 28, 1931

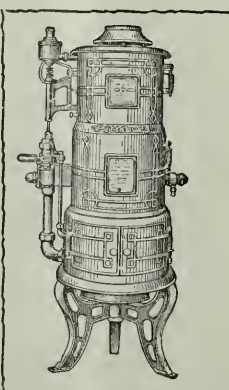
Ossian E. Carr on last Tuesday ac-
 cepted appointment as Oakland's city
 manager at \$20,000 a year, commencing
 July 1, when the new council-
 manager form of government goes in-
 to effect. Carr is the city manager of
 Fort Worth, Texas, and will resign
 immediately.

LIENS FILED

SACRAMENTO COUNTY

Recorded Amount
 June 11, 1931—LOTE 3, 4, 5, 6, 7, 8,
 9, 10 and 11 Alhambra Tract, Sacra-
 mento. Paul Iron & Bridge
 Works vs Edward and Frances
 Wahl and Edward Pease.....\$114.20

Northern California Federation of
 Plumbing and Heating Industries will
 hold its next meeting in San Jose on
 August 22, it is announced by Alexan-
 der Coleman, president of that body.
 The meeting will be held at the Saint
 Claire Hotel.



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BUILDING *and* ENGINEERING NEWS

Publication Office
547 Mission Street

SAN FRANCISCO, CALIF., JUNE 27, 1931

Published Every Saturday
Thirty-fifth Year, No. 26

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Issued Every Saturday

SAN FRANCISCO, CALIF., JUNE 27, 1931

Thirty-fifth Year, No. 26

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Building and Engineering News will be sent to subscribers until ordered stopped and all orders to discontinue must be sent in writing to this office.

WILL YOU BE WITHIN THE LAW?

The Legislature of 1931 adopted numerous amendments to the Contractors Law of 1929 and these amendments have been approved by the Governor and are now in effect.

Under the amended law, it is mandatory upon the Registrar of Contractors to require applicants for licensing to comply with certain provisions, namely:

1. The filing of a new and complete application on an official form approved by the Registrar.
2. The application form should contain, in addition to the names and addresses of the personnel of the firm, such further information as the Registrar shall require in determining the applicant's fitness to be licensed as a contractor.

3. The application must be accompanied by a fee of \$10.00 in the form of money order, certified or cashier's check.

4. The application must be received in Sacramento prior to July 30, 1931, or there is added an additional penalty of \$10.00, making the fee \$20.00 subsequent to that date.

Under the amended law, the Registrar has within his discretion the right to refuse to grant a license to any contractor until fully satisfied of the proper qualifications of the applicant. The first step in this qualification means the complete execution of the application form which has been sent to all contractors holding a 1930-1931 license and its prompt return to the office of the Registrar.

TOLL BRIDGE GOES INTO RECEIVERSHIP

Because of default in the payment of interest on its \$1,300,000 25-year 7 per cent debenture bonds, the Mount Hope Bridge Co., owner of the Mount Hope toll bridge, spanning the strait between Mount Hope and Narragansett Bay, R. I., has gone into receivership, Engineering News-Record reports.

The superior court in Providence on June 2 named R. F. Haffenreffer, of Bristol and Fall River, temporary receiver.

The bridge was opened on October 24, 1929, after it had been dismantled and rebuilt because of breaks in the wires in the main cable.

The capitalization of the bridge company consists of \$2,500,000 first mortgage bonds, bearing interest at 6½ per cent, \$1,300,000 25-year 7 per cent debenture bonds, \$100,000 7 per cent cumulative preferred stock and \$50,000 shares of common stock, no par value.

Roy W. Carlson, for four years testing engineer for the Los Angeles County Flood Control District, has been selected as engineer in charge of all tests of concrete on the Hoover Dam project by the U. S. Reclamation Bureau.

Outdoor Advertising Regulated In Maryland

The state of Maryland recently put into effect a law imposing the most stringent regulations on outdoor advertising ever enacted, according to The Business Week. Similar laws are being formulated in 21 other states.

But what appears as a blow to the \$75,000,000 outdoor advertising industry may prove a blessing in disguise. The Maryland law, for instance, eliminates "snipe" signs, scattered indiscriminately over the country and bringing the property owner no compensation. Reducing the number of these signs would tend to emphasize those left, make advertisers willing to pay more for them.

The outdoor advertising industry already is confronted with some form of regulation in every state except Wyoming. In most cases, these regulations are purely nominal and do not tend to suppress the industry.

Regarded by anti-billboard factions as a model law, the Maryland regulation provides: That every individual sign shall be taxed at the rate of 3¢ a square foot a year; that all companies maintaining more than 50 signs in the state must pay a license fee of \$200 annually; and that the State Highway Commission shall have the right to remove from locations within 50 feet of highways all signs that endanger the traveling public. Furthermore, advertisers are made responsible for illegally placed signs devoted to the merits of their products or services. This applies to signs placed on property without the owner's consent—snipe signs in advertising vernacular.

HONORABLE MENTION FOR QUANTITY SURVEY

Quantity Surveys submitted by H. A. Hoyt, secretary and treasurer of the Minton Company, general building contractors of Palo Alto, were awarded honorable mention at the 6th Annual Convention of the American Institute of Quantity Surveyors held in Cincinnati last May.

Hoyt was advised yesterday of the award by F. E. Diechner, secretary of the Institute, who urges that he prepare for the competition to be held at the next convention in Chicago in September, 1932.

"One point that pleased me personally," says Hoyt, "was that my exhibits of quantity surveys and take-offs were on a general contract including all branches of a complete bid for a building, while most of the other mentions and awards were on some single trade alone. The surveys submitted were taken from my regular file covering current work. I had no intention to prepare them for a prize exhibit but submitted them for their real value."

Hoyt was the only Pacific Coast contributor to the competition.

ARIZONA TO LICENSE CONTRACTORS JULY 1

After July 1 next all contractors operating in Arizona must have a state license under a law enacted at the recent session of the Legislature. The bill requiring registration of contractors, known as House Bill No. 64, creates the office of Registrar, which has just been filled by Governor Hunt, who appointed B. L. Hammock of Miami to the position. His term of office will correspond with that of the governor. The Registrar will have quarters in the office of the labor department of the Arizona Industrial Commission at Phoenix.

The new law is similar to the California statute providing for registration of contractors. Under the statute all contractors in the state not specifically exempted will be required to take out licenses. The license period corresponds to the fiscal year, July 1 to June 30. Under the law, all contractors in the state subject to its provisions, must have a state license to do business after July 1, 1931.

The license fee for contractors is fixed at \$25 and \$10 each year for renewal.

Operating without a license is punishable by a fine of \$500 or six months in prison, or both. The registrar is empowered to cancel licenses for the following causes: (1) Failure to complete a contract; (2) Fraud; (3) Embezzlement; (4) Disregard of any building code or safety law or the labor laws of the state.

FINANCING OF HOMES DURING PAST YEAR

California building and loan associations made loans for the refinancing or construction of more than 30,000 homes, during the past twelve months, according to C. H. Wade, newly elected president of the California Building-Loan League. Figuring an average of four persons to a home, this financing assisted 120,000 people to live in their own dwellings. The amount loaned approximated \$90,000,000, Mr. Wade reports.

The largest proportion of these loans were made on single family dwellings on a monthly repayment basis. This plan not only gives the association a constant inflow of funds but gives to the borrower the opportunity to pay for his home gradually, out of income.

More than 700,000 homes were financed by the 13,000 building and loan associations of the nation, during the past twelve months period, states Mr. Wade. These institutions now have more than eight billion dollars loaned on improved real estate, representing the savings of 12,000,000, or 10 per cent, of the population of the country.

Henry J. Schmidt, 1121 Ward St., Berkeley, passed away June 14 in Oakland, where he had been ill for a week. He was a builder and contractor for many years.

BASIC PRINCIPLES OF CONCRETE MAKING COORDINATED

By JOSEPH A. KITTS,

Consulting Concrete Technologist, San Francisco

4A. The Coordinated Method of Proportioning

Preliminary to the production of concrete at a central plant, or on a major project, the concrete technologist must test the physical qualities of the materials to be used and basic concrete mixtures of cement in order to establish the constants for the four laws of mixtures presented in Part 3. This preliminary testing or research procedure will be presented in Part 5.

Let it be assumed that the preliminary tests have been made and that we have established criteria for the cement and water contents, fineness moduli, and yield of combinations, as given hereunder. We may then proceed with the calculation of proportions of mixtures, based on the given criteria, and such mixtures may be used, in turn, for the determination of new criteria for a new set of conditions, employing the research procedure to be given in Part 5.

Notation.

The notation used herein applies only to the particular subject and does not have the same meaning throughout.

In this connection, it should be appreciated that the physico-mathematics of concrete materials and mixtures is in process of evolution and a proper notation is one of the difficult projects confronting the worker in concrete research and one which requires the coordinated effort of the various agencies concerned.

Criteria of Mixtures.

The following criteria of normal portland cement content, water content and fineness moduli of mixed aggregate, are based on the data contained in "Design and Control of Concrete Mixtures," second Edition, published by Portland Cement Association under date of January, 1927. The values are very conservative for the new standards of cement quality, and for the coordinated processes of proportioning and technological control of production presented herein. They serve, however, as well founded bases of preliminary test mixtures for the determination of new constants for a given set of materials and conditions.

Cement Content for Skilled Control.

The constants A and B, in the law of the cement content equation,

$$\log C = BK_1 + A \quad (\text{Kitts}) \quad (1)$$

(in which C is properly taken as the proportion of cement by absolute volume in a unit volume of cured concrete) are given in Table I for various maximum sizes of aggregate and slumps, and for the determination of C in pounds per cubic yard of concrete as a measure of practical convenience.

In determining the absolute volume of cement in pounds, it will be sufficiently accurate to consider 1 sack of standard portland cement, (94 lbs.) as 0.45 cu. ft. absolute volume, or, 154 pounds of cement as 1 cu. ft. by absolute volume.

Cement Content for Ordinary Control.

Where the water-cement ratio is indifferently controlled, and where only rough methods are used for determining quantities of materials, the cement contents as determined by Table I must be increased by the percentages given in Table II.

Water Content for Skilled Control

The constants P and G, in the equation,

$$W = FC(G - \log K_2), \quad (\text{Abrams}) \quad (2)$$

expressing the law of the water-cement ratio for any strength, should be determined by preliminary tests

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of the given materials, simulating, as nearly as possible, the conditions of control which will obtain on the job. Under various conditions of material quality and proportioning and control methods, G varies from 3.5 to 4.3 and F from 0.01 to 0.02. The strength obtained with a given water-cement ratio increases with the quality of cement and aggregate, with the accuracy and efficiency of the measuring, mixing, placing and curing equipment, and particularly with the skill of technological control.

The equation of the water content for average conditions of aggregate and cement quality, where the water-cement ratio is carefully controlled by accurate measurement of quantities of water, cement and aggregate, and proper correction is made for water content and absorption of the aggregate, (a modified expression of the Abrams law), is

$$W = 0.025 C (4.143 - \log K_3) \quad (2')$$

in which W is the cubic feet of mixing water per cubic yard of concrete, C is the pounds of cement per cubic yard as determined from Table I, and K_3 is the compressive strength required at 28 days.

Water content for Ordinary Control. Where the water-cement ratio is indifferently controlled, and where only rough methods are used for determining and measuring quantities of materials, the water-content equation for average quality materials is

$$W = 0.15 C (4.163 - \log K_3) \quad (2'')$$

in which C is the cement content, as determined by Table I with a percentage increase (in lieu of skilled control) as given in Table II.

Aggregate Content.

Having determined the required contents of cement and of water in the mix, there remains only the content of aggregate, which is determined by the following Part equation

$$A_v = (K_v/K_c) - (C_v + W_v) \quad (3)$$

in which A_v , C_v and W_v are the absolute volumes of aggregate, cement and water, respectively, in a required volume, K_c of set concrete; and K_v is the yield of the absolute volumes of aggregate, cement and water, or, the ratio of the volume of set concrete to the sum of the absolute volumes of ingredients, as expressed by Equation (1).

The exact value of the yield depends upon the volume of entrapped air and the amount of cement displaced by the mixing water, which, in turn, depends somewhat on the dryness or wetness of the mix, the leanness or richness of the mix, the fineness or coarseness of grading of the aggregate and the filter to voids ratios. The yield should be determined by test of the particular mix, as will be given in Part 5.

Practical values of the yield for usual fluid mixtures are approximately as given in Table III, based on the cement content of the mix. The volume of water considered should be the total water in the mix minus the water absorbed by aggregate and admixture.

This table will generally be correct within one half of one percent of error for the usual range of plastic and fluid mixtures, provided other values are determined and measurements are made with equal accuracy and are properly taken into consideration.

The Optimum Fineness Modulus for the Aggregate Mixture.

The fineness modulus of an aggregate is the sum of the absolute volume proportions coarser than each of the standard square hole sieve openings, 6", 3", 1½", ¾", ¾", ¾", etc. or of round hole openings whose diameters are 1.2 the standard square hole dimensions viz: 7.2", 3.6", etc. It is a logarithmic function of the average diameter of particles and, likewise, of the average surface area of particles. It is an essential physical measure easily determined and of important utility, as will be shown.

For any given maximum size of aggregate, there is an optimum fineness modulus of uniform grading corresponding to an optimum cement content, requiring a particular water-cement ratio for a specified strength and slump. The equation of the optimum fineness modulus for gravel aggregates is

$$f.m. = 1.07 \log C - E \quad (\text{Kitts}) \quad (2a')$$

in which E is a minus quantity and varies as the logarithm of the maximum size of the aggregate as given in Table IV.

The optimum fineness modulus is that degree of coarseness of aggregate grading from fine to coarse which gives the optimum combination of strength, density, cement economy, and of workability, flowability and cohesion of the fresh mix. A higher fineness modulus may be used with less of cement and of water, for the specified strength and slump, but at the sacrifice of measure of the workability, flowability and cohesion of the fresh mix; and, vice versa. It is, therefore, an essential supplement of the water-cement ratio law. It will be observed that, as the cement is increased, the fineness modulus and the voids in the aggregate are increased, and, accordingly, the optimum fineness modulus, for the determined cement content, is that degree of coarseness, of a reasonably uniform grading of particles from fine to coarse, which produces the optimum ratio of cement to voids in the mixed aggregate, and of mortar to voids in the coarse aggregate, for a specified strength and slump, and thus, comprehends the fundamentals of the voids theories.

It can be seen from the equation of the optimum fineness modulus that increase of cement content is accompanied by increase of fineness modulus, which, in turn, means decrease of sand content as in the Fuller method of deducting a weight of sand from the theoretical grading, equal to the weight of cement added. Likewise, increase of the cement to sand ratio is accompanied by increase of strength in accordance with the Thatcher Law. Similarly, the optimum density and the optimum ratio of cement to space occupied is maintained. Thus the fundamental effects of density and mortar-voids ratios are coordinated with the various laws of mixtures previously mentioned, excepting the grading of three or more aggregates.

Proportioning Two Aggregates

Determination of the fineness of a mixture from the respective proportions and fineness moduli of two aggregates, and likewise, determination of the proportions of two aggregates for a mixture of a given fineness modulus, are merely problems of simple proportion: If p = the proportion (by absolute volume) of fine aggregate in the mix,

Table I Cement Content For Rigid Control By Absolute Volume

Constants for Determining Pounds of Normal Standard Portland Cement per Cubic Yard of Concrete for any Compressive Strength (at 28 days) for Given Slumps and Maximum Sizes of Aggregates, Employing the Equation, $\log C = BK + A$, and Based on the Water Content Equation, $W = .0125 C (4.14613 - \log K)$

(For average commercial gravel aggregates of standard quality.)

Standard Slump*	Maximum Size of Aggregate					Flow
	Square Hole Screen Sizes					
	1 1/2"	2"	2 1/2"	3"	6"	
	Round Hole Screen Sizes					
Inches	1/4"	3/8"	1/2"	3/4"	1"	
1	A .225"	.45"	.9"	1.2"	1.5"	
1	A 2.226	2.410	2.220	2.276	2.274	140
1	B .0001084	.0001224	.0001325	.0001386	.0001424	140
2	A 2.5497	2.438	2.340	2.292	2.2648	162
2	B .0001077	.0001221	.0001241	.0001295	.0001436	162
2	A 2.6758	2.4592	2.2600	2.2158	2.2822	175
2	B .0001072	.0001224	.0001352	.0001409	.0001463	175
4	A 2.6019	2.4836	2.2300	2.2344	2.2996	185
4	B .0001074	.0001222	.0001371	.0001432	.0001479	185
6	A 2.6239	2.5050	2.4000	2.2520	2.3170	194
6	B .0001083	.0001250	.0001401	.0001467	.0001517	194
6	A 2.6541	2.5224	2.4200	2.2716	2.3344	202
6	B .0001103	.0001282	.0001447	.0001518	.0001573	202
7	A 2.6802	2.567	2.4400	2.2902	2.3518	210
7	B .0001127	.0001321	.0001514	.0001592	.0001652	210
8	A 2.7052	2.5812	2.4600	2.4058	2.2692	218
8	B .0001192	.0001496	.0001612	.0001700	.0001768	218
9	A 2.7324	2.6056	2.4800	2.4274	2.2866	225
9	B .0001278	.0001519	.0001758	.0001858	.0001926	225
10	A 2.7555	2.6300	2.5000	2.4460	2.4040	232
10	B .0001414	.0001695	.0001980	.0002098	.0002190	232
Opt. Slump**	8.6"	8.4"	8.0"	7.7"	7.5"	
	Square Hole Screen Sizes					
	1 1/2"	2"	2 1/2"	3"	6"	
	Round Hole Screen Sizes					
	1.8"	2.4"	3.0"	3.6"	7.2"	
1	A 2.2190	2.1780	2.1428	2.1178	2.0172	140
1	B .0001459	.0001510	.0001553	.0001584	.0001708	140
2	A 2.2360	2.1935	2.1576	2.1216	2.0279	162
2	B .0001472	.0001525	.0001571	.0001603	.0001734	162
3	A 2.2530	2.2090	2.1724	2.1454	2.0386	175
3	B .0001490	.0001547	.0001595	.0001630	.0001768	175
4	A 2.2709	2.2245	2.1872	2.1592	2.0492	185
4	B .0001518	.0001579	.0001629	.0001666	.0001813	185
5	A 2.2879	2.2400	2.2020	2.1720	2.0600	194
5	B .0001559	.0001624	.0001677	.0001718	.0001875	194
6	A 2.3040	2.2555	2.2168	2.1868	2.0707	202
6	B .0001617	.0001689	.0001746	.0001790	.0001960	202
7	A 2.3210	2.2710	2.2316	2.2006		210
7	B .0001701	.0001780	.0001842	.0001890		210
8	A 2.3380	2.2865	2.2464	2.2144		218
8	B .0001821	.0001909	.0001978	.0002032		218
9	A 2.3550	2.3020				225
9	B .0001996	.0002097				225
10	A 2.3720	2.3175				232
10	B .0002260	.0002379				232
Opt. Slump	7.3"	6.8"	6.4"	6.0"	4.1"	

* Excluding particles over 1 1/2" diameter.

** Slump for optimum Workability, Flowability, Cohesion, Strength, Density, and Economy, for reinforced and difficult sections.

Table II. Cement Content Factor for Ordinary Control

Cement contents, given by Table I, must be increased from 16 to 42 per cent, as given herein for the required strengths and slumps, and the corresponding water content determined by the equation, $W = .0115 C (4.14613 - \log K)$

of Concrete	Slump				
	1"	2"	3"	4"	5"
1000	16	17	18	19	21
2000	17	19	21	23	26
3000	18	21	24	27	32
4000	20	23	27	32	37
5000	22	26	31	36	42

(Continued on page four)

ENGINEERING SOCIETIES EMPLOYMENT SERVICE

Further information regarding positions listed in this column is obtainable from Newton D. Cook, Room 715, 57 Post Street, San Francisco. (Phone Sutter 1684).

W-2751-S ENGINEER, technical graduate, American with good experience in rock drilling and rock excavation, preferably on heavy construction work, and also having had experience or having ability and personality for selling. Apply by letter. Location, East.

W-2235 PROFESSOR OF CIVIL ENGINEERING, proficient in matters relating to water supply and sewerage and particularly in the treatment of sewage; should have acquired a reputation as one who can speak authoritatively on the subject. Preferably be about 40 and must be full member of the American Society of Civil Engineers. Candidate must have had some teaching experience and must show that he has been active in the discussion of professional topics. Salary about \$6000 a year with opportunity to do private consulting work. Apply by letter. Location, East.

W-2830-C-S (K-268) MECHANICAL ENGINEER, thoroughly trained in design of rotary rigs, with long experience in office and shopwork, wanted by European oil well supply works. In reply give information concerning personal history, education and experience; send kodak picture of yourself; state salary expected and date available. Location, Germany.

R-2587-S STRUCTURAL DRAFTSMAN, preferably college graduate very familiar with building details and capable of designing as well as making own drawings. Salary \$250-275 month. Location, San Francisco.

W-2782-C-S (K-362) MEN in all parts of the country with both electrical and mechanical engineering background to handle sales of Photo Electric Control Units on a liberal commission basis. These units have a wide industrial application and the field for light-sensitive devices is rapidly increasing. Apply by letter. Headquarters, New England.

R-3592-S ENGINEERS to sell portable hand operated pull jacks to contractors, garage owners, public utilities, etc. Opportunities for active men with acquaintance in construction field. Straight commission from \$20 to \$40 per order. Any territory. Apply by letter. Headquarters, East.

R-3589-S KEYSTONE DRILL RUNNERS, experienced, for work in Western Canada. Must be either Canadian or English citizens. Headquarters, San Francisco.

Upon conclusion of a series of 22 meetings designed to promote aggressive lumber merchandising methods in rural Illinois territories, C. F. Miller, agricultural engineer of the National Lumber Manufacturers' Association, has reported to headquarters that 596 dealers attended the meetings in various sections of the state and showed an enthusiastic interest in the discussions, the sales suggestions, and the literature made available by way of sales help. He was accompanied at these meetings by "Bill" Joyce, Field Service Director, Illinois Lumber and Material Dealers' Association. In his report Miller stated the experience of a dealer who took two photographs of a customer's home, had an architect draw in attractive modernizing suggestions, showed it to the customer and sold a \$1,400 modernizing material bill.

Table III
Approximate Values of K_v in Equations 3 and 4., Based on the Content of Normal Portland Cement, in Pounds per Cubic Yard of Set Concrete.

Pounds of cement per Cu. Yd. of Concrete	Proportionate of Absolute Volume	Pounds of Cement per Cu. Yd. of Concrete	Proportionate of Absolute Volume
300	1.019	600	.981
20	1.015	20	.980
40	1.011	40	.979
60	1.008	60	.978
80	1.005	80	.977
400	1.002	700	.976
20	.999	50	.974
40	.996	800	.972
60	.993	50	.970
80	.991	900	.968
200	.989	50	.967
50	.987	1000	.966
40	.985	1100	.964
60	.983	1200	.962
80	.982	1300	.961

Table IV
E in the Fineness Modulus Equation $f.m.=1.07(\log C-E)$, for Various Maximum Sizes of Aggregate.

Size	-E	Size	-E
3/8"	.4362	2"	3.0238
1/2"	.7446	2 1/2"	3.3677
3/4"	1.2129	3"	3.4670
1"	1.5084	3 1/2"	3.6355
1 1/4"	1.9516	4"	3.7815
1 1/2"	2.2661	4 1/2"	3.9002
1 3/4"	2.5100	5"	4.0254
2"	2.7093	5 1/2"	4.1295
2 1/4"	2.8778	6"	4.2247

$E = -2.26607 - \log Ams$

.3973

Ams=maximum (Square Hole) size of aggregate.

Table V
Fineness Moduli of Gradings for Values of n and D in the Equation, $r = 1 - (d/D)^n$

Maximum Size ins	.46	.48	.50	.52	.54	.56	.58	.60	.62	.64	.66
6	7.44	7.55	7.67	7.75	7.86	7.94	8.01	8.09	8.17	8.23	8.29
5	7.24	7.33	7.44	7.54	7.61	7.72	7.80	7.86	7.94	8.02	8.07
4 1/2	7.09	7.20	7.30	7.42	7.49	7.57	7.65	7.73	7.80	7.89	7.94
4	6.92	7.04	7.13	7.24	7.33	7.41	7.49	7.55	7.64	7.71	7.79
3 1/2	6.73	6.82	6.94	7.04	7.11	7.23	7.31	7.37	7.44	7.50	7.58
3	6.43	6.59	6.70	6.78	6.88	6.96	7.03	7.11	7.18	7.24	7.30
2 1/2	6.28	6.37	6.47	6.57	6.64	6.74	6.82	6.88	6.96	7.03	7.08
2	6.14	6.24	6.34	6.45	6.52	6.59	6.67	6.75	6.82	6.90	6.95
1 1/2	5.97	6.08	6.17	6.27	6.36	6.44	6.51	6.57	6.66	6.73	6.80
1 1/4	5.78	5.87	5.98	6.08	6.14	6.24	6.33	6.38	6.46	6.52	6.59
1 1/2	5.54	5.64	5.74	5.82	5.91	5.99	6.06	6.13	6.20	6.26	6.32
1 1/4	5.34	5.42	5.52	5.61	5.68	5.77	5.85	5.91	5.98	6.05	6.10
1 1/2	5.20	5.30	5.39	5.50	5.56	5.63	5.70	5.78	5.84	5.92	5.97
1	5.04	5.14	5.22	5.32	5.40	5.47	5.54	5.60	5.69	5.75	5.82
3/4	4.85	4.92	5.04	5.13	5.19	5.28	5.37	5.42	5.49	5.55	5.61
3/4	4.62	4.71	4.80	4.88	4.96	5.03	5.10	5.17	5.23	5.29	5.35
3/4	4.42	4.50	4.59	4.67	4.74	4.82	4.89	4.95	5.02	5.08	5.13
3/4	4.13	4.22	4.30	4.39	4.46	4.53	4.59	4.65	4.73	4.79	4.85
3/4	3.73	3.81	3.89	3.96	4.03	4.10	4.16	4.22	4.28	4.34	4.39
3/4	3.26	3.34	3.41	3.49	3.55	3.61	3.67	3.72	3.79	3.85	3.90
3/4	2.88	2.95	3.01	3.07	3.14	3.20	3.25	3.30	3.36	3.41	3.46

Then $l-p$ = the proportion of coarse aggregate,
 If R = the actual fineness modulus of the sand,
 R = the actual fineness modulus of the rock,
 and M = the fineness modulus of the mix, then
 $M = pS + (l-p)R$, (5)
 and
 $p = (R-M)/(R-S)$, (6)

When proportions are to be determined by equation (6), the required fineness M is determined by equation (5a), in which $\log C$ is determined by equation (1) for the given conditions.
 While no particular uniformity of grading may be obtained by the combination of two aggregates, their combination by the fineness modulus method approaches the theoretical uniformity, as nearly as possible, and the theoretical average diameter and surface area of particles is effected

with essential accuracy. This is the important function of the fineness modulus characteristic.

Proportioning Three or More Aggregate

Three aggregates, having different fineness moduli, may be proportioned in innumerable combinations for a mixture of a particular fineness modulus between the maximum and minimum modulus of the individuals. As example, three aggregates, whose moduli are 3.0, 5.0 and 7.0, respectively, may be combined as follows for a fineness modulus of 5.5:

F.M.	Proportions						
3.0	.15	.20	.25	.30	.33	.35	.36
5.0	.45	.35	.25	.15	.09	.05	.03
7.0	.40	.45	.50	.55	.58	.60	.61
MxF.M.	5.5	5.5	5.5	5.5	5.5	5.5	5.5

The fineness modulus indicates the average diameter of particles, but, as shown, does not indicate the gradation of diameters. In order to proportion three or more sizes of aggregates to a definite uniformity of gradation of sizes for any required fineness modulus, it is necessary to have a grading equation which provides such uniformity and fineness modulus. This flexibility is provided by the Talbot equation
 $r = 1 - (d/D)^n$ (3b)
 in which r is the absolute volume proportion of the whole retained on given sieve opening of d dimension, D is the maximum square hole dimension of aggregate particle, and n is an exponent determining the coarseness or fineness of the grading.

A modulus of the average diameter of particles may be obtained by any set of sieves having a uniform ratio of hole dimension in the successive sieve sizes; the holes may be any regular sided opening of the same average diameter,—square, pentagonal, hexagonal, octagonal, etc. to round, and the measure may be in any unit; but, the ratio of hole diameters, the maximum hole diameters, and the unit of measure of hole diameters, determine the unit basis of the modulus. In order to coordinate the Talbot Grading Equation (3b), with Abrams' fineness modulus, d and D must be taken on the square hole basis and it is necessary to use the present A.S.T.M. standard square hole sieves, or equivalent round hole sieves, whose theoretical openings are as follows:

Number of sieve	Theoretical Side d of Sq. Ave. Diam. Inches	Equivalent Round Hole Ave. Diam. Inches
100	0.005569375	.007
50	0.01171875	.014
30	0.0234375	.028
16	0.046875	.056
8	0.09375	.112
4	0.1875	.225
3	0.275	.45
2	0.75	.9
1-1/2"	1.5	1.8
3"	3.0	3.6
6"	6.0	7.2
12"	12.0	14.4

The values of the fineness moduli, for various values of n and D , are given in Table V. When n is equal to 0.5 the grading corresponds to Fuller's theoretical grading.

The employment of the Fuller grading has necessarily been a graphical cut-and-try process and that is

also true of any grading equation unless it is coordinated with a measure of the average diameter of particles such as the fineness modulus.

Assuming that, for a 3" maximum size of aggregate, it has been determined by equation (3a) that a fineness modulus of 7.11 is required, it is found in Table V that n=.60, and using this value of n in equation (3b) will show that 19 of the total aggregate is from 0-3/8" (No. 4 sieve) with a fineness of 3.30, .29 from 0-1/2" with fineness of 4.22, .43 from 0-3/4" with fineness of 5.17, .66 from 0-1 1/4" with fineness of 6.13, and the whole from 0-3" has a fineness modulus of 7.11. The fineness modulus of each part is the sum of the proportions coarser than each of the included standard sieves. These theoretical proportions are based on perfect screening of sizes No. 100-50, 50-30, 30-16, 16-8, 8-4, 4-2, 2-1, 1-1/2, 1-1/4, 1-1/8, 1-1/16, 1-1/32, with the respective fineness moduli of 1, 2, 3, 4, 5, 6, 7, 8, 9 for the 3" maximum. Job aggregates, however, may usually be expected to have a considerable portion of undersize and a small portion of oversize particles. Provided the aggregates are clean and sound, this condition of undersize and oversize is not objectionable when it is a fairly constant condition. It is the purpose of the grading and fineness principles to compensate for such conditions.

As a practical example, let us assume that we have (1) to be graded to a fin. of 7.11 six sizes of aggregate on the job whose maximum sizes approximate most closely the standard sizes given, with their actual fineness moduli, etc., in the following table:

Table A—Data for Grading Six Aggregates.

AGGREGATE No.	Standard Size Theo. Min.	Standard Size Apprx. Max.	Fineness Moduli	
			Theoretical	Actual
I	0	16	2.0	(Part)
II	0 + 1/4	8	3.3 + 3.7	3.3 (0-4")
III	1/4 + 1/2	4	6.0 + 5.5	4.22 (0-1 1/2")
IV	1/2 + 3/4	2	7.0	5.0 5.17 (0-3/4")
V	3/4 + 1 1/4	1	8.0	8.2 6.13 (0-1 1/4")
VI	1 1/4 + 3"	0	8.8	7.11 (0-3")

In order to determine the proportions compensating for divergence of the actual fineness moduli from the theoretical or, in other words, to proportion the actual aggregates to fit the theoretical grading, Equation (6) may be employed in connection with the moduli of the respective parts as given in Table V, and with regard to the actual f.m.'s of the job materials, as in the following scheme:

Part: Percent of Whole (Job Course—Theo. Total)	P' = p
p = proportion of fine; 1.0 - p = proportion of coarse.	
0-3": 100% (VI) (Whole) (8.8-7.11)	1.0 - .63 = .37 of I-V.
0-1 1/4": 63% (V) (8.2-6.13)	1.0 - .63 = .37, No. VI.
.63 (8.2-5.17) (I-IV)	.63 - .43 = .20, No. V.
0-3/4": 43% (IV) (7.0-5.17)	.43 - .28 = .15, No. V.
.43 (7.0-4.22) (I-III)	.43 - .28 = .15, No. V.
0-1/2": 28% (III) (6.5-4.22)	.28 - .16 = .12, No. III.
.28 (6.5-3.3) (I-II)	.28 - .16 = .12, No. III.
0-No. 4; 16% (II) (3.7-3.3)	.16 (3.7-2.0) (I)
.16 (3.7-2.0) (I)	.16 - .04 = .12, No. II
	.04, No. I
Total	1.00

We have then, .04 of I, .12 of II, .12 of III, .15 of IV, .29 of V, and .37 of VI, by absolute volume.

Another manner of determining the proportions will be given in the subsequent example of calculation of a concrete mixture employing a maximum size of aggregate in the 8", 4", 2", etc. series of gradings.

Physical Tests of Aggregates

Aggregates, although from the same source, vary from clay to day in specific gravity, density, grading, fineness modulus, moisture content and absorption. Correct weight or volumetric proportions for one delivery of aggregates may be expected to be decidedly wrong the next delivery for a required quality of concrete. Therefore, the method of formulation of mixtures must comprehend re-proportioning in accordance with these periodical changes in the physical characteristics of the aggregates, and, these measures of the physical characteristics are necessary and basic in any method of proportioning which accomplishes uniformity in the quality of the concrete produced.

The procedure of aggregate tests must be simple, expedient and accurate, in order to keep up with the change of materials. A coordinated test procedure, described as the "weight-volumetric method", has been designed by the writer for this purpose and is briefly stated as follows:

Aggregate Tests

Tests	Example:
Test A—Weigh water exactly filling standard or similar container	62.40
Test B—Weigh loose moist aggregate filling container	88.68
Test C—Surface dry weight B and weigh	84.82

Test D—Dry weight C at 212° F and Weigh	83.22
Test E—Inundate D, exactly filling container with water, and weigh	113.73
Test R—Make sieve analysis, finding total proportions by absolute volume (or by wt.) coarser than each of the standard sieves Nos. 100, 50, 30, 8, 4, 3/8", 3/4", etc.	
Test F—Weigh dry aggregate filling container, rodding in the standard (A.S.T.M.) manner	102.77
Test G—Weigh loose dry aggregate filling container	89.74
Tests F and G are not essential excepting where dry-loose or dry-rodded volumes are specified or desired for special purposes.	
Calculations: (employing weights determined).	
d = loose-moist density = (A-E+D)/A = .51.....(7)	
g = apparent specific gravity = D/(A-D) = 2.61.....(8)	
a = absorption by absolute volume = (C-D)/Ad = .450.....(9)	
m = moisture by absolute volume = (E-D)/Ad = .171.....(10)	
w = weight of moist aggregate in lb. per cu. ft. by absolute volume = 62.4(g+m) = 173.534.....(11)	
b = bulking of absolute volume by loose measure, moisture and voids = 1.0/d = 1.957.....(12)	
f.m. = R ₁₀₀ + R ₅₀ + R ₃₀ + R ₈ + R ₄ + etc.....(13)	
dr = dry-rodded den. = F/Ag = .631 (14)	
dd = dry-loose den. = G/Ag = .551 (15)	

Example of Concrete Mix Tables and equations, such as given in Part 4A, are determined as preliminaries to production, on a project or at a central concrete manufacturing plant, and establish criteria of mixtures under the local conditions. There remains, then, only the routine tests of materials and proportioning of mixtures in accordance therewith.

Let it be assumed that concrete is required for deep foundation cylinders, for heavy loads, where 2" maximum size aggregate and 6" slump are practicable and where the most economical design is obtained with 4500-lb. concrete.

Assume, also, that four sizes of gravel aggregates are to be employed, whose physical characteristics at a particular time are as follows:

Table B—Characteristics of Job Aggregates (Determined by Tests A, B, C, D, E, F, G and R)

AGG. No.	Practical Size Limits	Fineness Modulus	Loose-moist Density	Apparent Specific Gravity	Moisture by abs. vol.	Absorption by abs. vol.	Dry-rodded Density	Dry-loose Density
1	0-16	2.00	502	2.56	172	0.47	600	550
2	0-4	3.65	574	2.62	170	0.40	673	640
3	4-1 1/2	6.54	597	2.64	101	0.37	636	610
4	1-2"	8.50	570	2.70	0.25	0.25	610	590

The cement content per cubic yard of concrete, to indicate 1 or 400-lb. concrete with 6" slump, 2" aggregate and skilled control, is found in Table 1 to be Log C = (.001689 X 4500) + 2.2555 By 1 = 3.01555 and C = 1037 lbs. per cu. yd. of concrete.

If the apparent specific gravity of the cement is 3.11, the absolute volume of cement is, then 1037/(3.11x62.4) = 5.344 cu. ft. (1a)

The corresponding volume of mixing water is W = (.0125x1037) (4.14613-log 4500) By (2) = 6.389 cu. ft.

The corresponding absolute volume of mixed aggregate per cu. yd. of con-

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Av=27/Ky-5.344-6.389 By (3),
and, as Ky=966, By Table III
then Av=16.217 cu. ft.

The corresponding fineness modulus of the mixed aggregate for 2" maximum size aggregate (E=2.0238) and 1037 lbs. of cement is (See Table IV)
f.m.=1.07 (log 1037 + 3.0238) By (3a)
=4.46

Referring to Table V, we find, for D=2" and fm=4.44, that n=56 which we will use. (Increasing n up to 60 would be satisfactory and would increase the measure of strength and density at the sacrifice of a measure of cohesion and workability of the wet mix.)

The theoretical gradings of the aggregate for D=2" and n=56, and of parts of same, are as follows:
Table C—Theoretical Gradings of Aggregates for D=2" and n=56.

Job Aggr. No. and Size Max.	Sieve No.	Proport. Retained			
		Mixed Aggregate	0-10" 1"	10-1" 1"	1-10" 1"
	100	.97	.94	.89	1.00
	50	.94	.92	.78	1.00
	30	.92	.88	.70	1.00
I	16 1/2"	.88	.82	.56	1.00
	8	.82	.73	.33	1.00
II	4 1/2"	.73	.61	.00	1.00
	3/8"	.61	.42	1.00	1.00
	1/2"	.42	.15	1.00	1.00
III	1 1/2"	.15	.00	1.00	1.00
IV	2"	.00			.47
Fineness Modulus		6.44	5.47	3.26**	8.47

*Note—The maximum size of the No. III aggregate is not in the standard sieve scale, and, therefore, must be included in summing for the fineness modulus.

** Plus .06 due to calculations limited to hundredth place. Determining the theoretical proportion of the whole aggregate retained on the 1" sieve by the equation

$r_1 = (1/2)^n = .32$, By (3b)
then the proportions retained for the 0-1" part may be determined by the equation

$$r_1^n = (r_1 - r_1^n) / (1.0 - r_1^n) \quad (16)$$

Those for the 0-No. 4 part must be determined in this same manner, not being in the same grading series as the whole aggregate. The proportions retained and fineness modulus for any part of the aggregate, such as that from 1"-2", may be determined by the equation

$$r_1^n = r_1^n / r_1^n \text{ not greater than } 1.0, (17)$$

Employing these determined values of the fineness moduli of the parts, as given in Table C, and the actual fineness moduli of the separate aggregates, as given in Table B, the proportions of each aggregate are determined by Equation 6 (as in previous example):

$$0-2", 100\% \quad (8.5-6.46) = .67 \text{ of I-III}$$

$$1.0 \times \frac{(8.5-6.46)}{(8.6-5.47)} = .67 \text{ of I-III}$$

$$1.0 - .67 = .33 \text{ of IV}$$

$$0-1", 67\% \quad (6.54-5.47) = .28 \text{ of I-II}$$

$$.67 \times \frac{(6.54-5.47)}{(6.54-3.26)} = .22 = .45 \text{ of III}$$

$$.67 - .22 = .45 \text{ of III}$$

$$0-No. 4, 22\% \quad (3.65-3.26) = .06 \text{ of I}$$

$$.22 \times \frac{(3.65-3.26)}{(3.65-2.00)} = .22 = .06 = .17 \text{ of II}$$

$$.22 - .06 = .17 \text{ of II}$$

$$.05 \text{ of I}$$

Total = 1.00

- Mixture Specifications
- The complete specifications of the basic mixture are, then:
1. Maximum size of aggregate... 2"
 2. Slump of concrete 6"
 3. Compressive strength at 28 days, lb. per sq. in. 4500
 4. Absolute volume of cement per cu. yd., cu. ft. 5.344
 5. Absolute volume of mixing water per cu. yd., cu. ft. 6.389
 6. Proportionate yield of absolute volumes966
 7. Absolute volume of aggregate per cu. yd. of concrete 16.217
 8. Fineness modulus of whole mix 6.46
 9. Grading of aggregate, n.....0.564
- Requirements 4-9 remain constant for the determining requirements 1, 2 & 3, if the individual maximum sizes of the aggregate do not change, the following two items also remain constant:
10. Fineness modulus of 0-1" part, 5.47
 11. Fineness modulus of 0-No. 4 part, 3.26
- As long as the given fineness modulus of the job aggregates remain constant, the absolute volume proportions remain as previously determined:
12. Proportion of No. 1 aggregate .05
 13. Proportion of No. II aggregate .17
 14. Proportion of III aggregate .45
 15. Proportion of IV aggregate .33
- Proportions by Absolute Volume: (1st Basis of Measure)
- The proportions by absolute volume for one cubic yard of set concrete, then

Materials	Absolute Volume
Cement By (1) & (2)	= 5.344
Mixing water By (1a)	= 6.389
I Fine Sand .05x16.217	= 0.811
II Coarse Sand .17x16.217	= 2.757
III Medium Gravel .45x16.217	= 7.298
IV Coarse Gravel .33x16.217	= 6.352
	27.951

Absolute vol. = proportion x abs. volume of aggregate = 27.956 By Table III

Job Proportions by Loose-Moist Vol. (2nd Basis)

The mixing water, plus the absorptions of the absolute volumes of aggregates, minus the moisture content of the absolute volumes of aggregates determine the water to be added. The correction is made as follows: (See Table B)

$$6.389 - 16.217 [(0.05) (.172 - .047) + (0.170 - .040) + .45 (.101 - .037) + .33 (.025 - .025)] = 6.389 - (16.217x.05715) = 5.462 \text{ cu. ft.} \quad (18)$$

to be added to the loose-moist mix. The corresponding job proportions, measuring the aggregates by loose-moist volume (the customary manner), are then:

Materials	Loose moist Volume
Cement, 1037 lbs./94	= 11.0 sks.
Added Water, 5.462x7.5	= 41.0 gal
	7.5 gals/cu ft.
I Fine Sand .05x16.217/502	= 1.6
II Coarse Sand .17x16.217/574	= 4.8
III Med. Gravel .45x16.217/597	= 12.2
IV Coarse Gravel .33x16.217/570	= 9.4
Loose-moist Vol. = proportions x abs. vol. of aggr./d	

It has been the custom (since decimal fractions have been used) to call this a 1 : .6 : 2 or a 1 : 2.6 mix.

Job Proportions by Moist Weight: (3rd Basis)

The corresponding job proportions by moist weight are:

Materials	Moist Wt., lbs.
Cement	= 1037
Added water, 5.462x52.4	By (1)' = 341
	As corrected
I Fine Sand, 16.217x62.4x .05 (2.56+172)	= 138
II Coarse Sand, 16.217x62.4 x .17 (3.52+170)	= 480
III Medium Gravel, 16.217x62.4 x .45 (2.64+101)	= 1248
IV Coarse Gravel, 16.217x62.4 x .33 (2.70+925)	= 910
	Total 4154
	Moist Wt. = abs. vol. aggr. x proportion
	x (g+m) x 62.4

Laboratory Proportions by Dry-Rodded Volume: (4th Basis)

Corresponding proportions by dry-rodDED volume are determined as in the 2nd Basis, with modifications as follows:

a. The total moisture in the aggregates, as given in equation (18), are changed to 0.0, and the absorption of the aggregate must be provided for by adding same to the mixing water.

b. In calculating the proportions of aggregates, their dry-rodDED densities, dr, are employed instead of the loose-moist density, d.

Laboratory Proportions by Loose-Dry Volume: (5th Basis)

Corresponding proportions by loose-dry volume are determined as in the 4th Basis excepting that the loose-dry densities, dd, are employed in part b.

Laboratory Proportions by Dry Weight: (6th Basis)

For accurate results, proportions for concrete research tests should be made by the weight-volumetric method, taking the absolute volume as the basic measure of ingredients, and, as the most practical and accurate method, measuring the absolute volumes by weighing the quantities calculated on the basis of accurately predetermined specific gravities of the ingredients. It will generally be sufficiently accurate to assume 1.0 as the specific gravity of tap water of usual temperature.

Aggregates for laboratory mixtures should generally be thoroughly dry, as evaporation of moisture from moist aggregates, during the manipulation, introduces error into the test results.

The correction of the water to be added, compensating for absorption of the aggregates, is determined by equation (18) as follows:

$$6.389 - 16.217 [0.05 (0.0 - .47) + .17 (0.0 - .040) + .45 (0.0 - .037) + .33 (0.0 - .025)] = 6.389 - 16.217 (1 - .03405) = 6.389 + .552 = 6.941.$$

The weight proportions, employing dry aggregates, are then:

Materials	Weight, Lbs.
Cement	= 1037
	By (1)' = 423
Added water, 6.941x62.4	as corrected
I Fine sand 16.217x62.4x .05x2.56	= 129
II Coarse Sand, 16.217x62.4x .17x2.62	= 451
III Medium Gravel, 16.217x62.4x .45x2.64	= 1202
IV Coarse Gravel, 16.217x62.4x .33x2.70	= 902
	Total 4154
	Weight, Lbs. = abs. vol. of aggr. x proportion x g
	x 62.4

This shows exactly the same weight of ingredients as in 3rd basis, which is correct.

Arbitrary Proportions:

The buyer of central plant concrete often specifies arbitrary proportions 1:2.4, or 1:6 etc. Generally, he does not know anything about strength, slump, dry-rodded volume, or, that concrete is made of various maximum sizes of aggregates. Questions in regard to these matters only confuse him. The manufacturer should provide a concrete suitable for the purpose and, at the same time, comply with the implied requirements of these indefinite specifications. A "1:2.4 mix" has meant loose-moist volume of aggregates, down the ages, and not the standard dry-rodded volume which requires less cement per cubic yard. 1:2.4 or 1:6 has also meant 2600-lb concrete which points to a water cement ratio of 1.0 plus or minus.

The fundamental principles, of calculation of arbitrary mixtures, are set forth herein, and ingenuity of calculation is soon acquired by practice and experience.

Taking given aggregates I, II, & III, and requiring a water-cement ratio of 1.0 and cu. ft. of No. 1 with 1½ cu. ft. of No. 2. The proportions, then, would be as follows:

L.M. Vol. x d = Abs. Vol.	
I	5x.502= .251
II	1.5x.574= .861
III	4.0x.597=2.388
Cement, sks.	1.0x.450= .485
Mixing Water	1.0 1.000
	4.985

Yield of concrete = $4.985 \times .988 = 4.925$ c.f., $27.4 \times 25 = 5.48$ sks. = 1.37 bbis. = 515 lbs. of cement per cu. yd. of set concrete.

The calculation of added water and weight proportions are indicated in the foregoing principles and the reader will readily find the logical procedure.

The various problems of proportioning are innumerable and these few cases will be found to cover the fundamental procedures of calculation, if it is kept in mind that the fundamental basis of measure of proportions is the absolute volume, that the fundamental basis of measure of proportions at specific gravity, moisture content and absorption is the absolute (= apparent) volume of the aggregate.

Practice Problem

Given aggregates I, II and III, as in Table B, calculate a mixture for 3000-lb. concrete, 1" maximum size of aggregate, and 7" slump.

San Francisco, California.
March 31, 1931.

Directors of the Schumacher Wall Board Corporation have declared the second regular quarterly dividend of 25 cents a share on a fully stock-payable June 27 to stockholders of record June 17. Schumacher sales and earnings were declared by the directors to be very satisfactory. The opening of new markets has provided additional outlets for the Schumacher products and a conservatively enthusiastic outlook for the future is held by the directors, according to A. R. Meylan, vice president and general manager.

Winston Bros. Co. of St. Louis, Mo. have been awarded the contract to construct a pipe line from the Canadian border to Butte by way of Helena, Deer Lodge and Anaconda, and from Dry Creek near Red Lodge to Bozeman by way of Big Timber and other towns. The project is for the Montana Power Company and will involve an expenditure of between \$12,000,000 and \$15,000,000. Most of the pipe will be 28 inches in diameter and will be furnished by the A. O. Smith Company of Milwaukee, Wis., which concern will do all the welding.

FACTORS AFFECTING HEATING OF ROOMS WITH DIRECT STEAM RADIATORS COVERED IN BOOKLET

Bulletin No. 223, issued by the Engineering Experiment Station of the University of Illinois, "Investigation of Various Factors Affecting the Heating of Rooms with Direct Steam Radiators," is a continuation and extension of the previous investigation, the results of which were published in Bulletins Nos. 109 and 192. The investigations were made by Arthur C. Willard, Alonzo P. Kratz, Maurice K. Fahnestock and Selch Konzo.

The immediate object of the tests reported in the present bulletin was to determine the effect of various factors encountered in actual heating practice on the heating of a typical room by means of cast-iron steam radiators. Among the factors studied were: location of the radiator in the room; types of radiators, enclosures, shields, and covers; kind of paint used on radiators; storm doors and sash; variation in attic and basement temperatures; relative amount and location of wall and glass exposure; and variation in steam temperatures. A special study was made of surface

temperatures and temperature gradients through walls and glass.

In order to provide for all the factors affecting the performance of bare, enclosed, and shielded radiators, actual rooms with typical outside walls, windows, and doors, and located in a specially constructed low temperature testing plant for maintaining constant outside temperatures of zero or less, were used in the tests. In such a plant it was possible to place the radiator in the actual environment existing in practice, and investigate not only the heat emission of the radiator itself but also the heating effect produced in the room as well. The intelligent design and selection of radiators and enclosures depends fully as much on the effect produced in the room as on the conventional heat emission factor so generally taken as the sole criterion of excellence in the past.

Copies of Bulletin No. 223 may be obtained without charge by addressing the Engineering Experiment Station, Urbana, Illinois.

ADEQUATE COMPENSATION FOR STRUCTURAL ENGINEERS ENGAGED IN BUILDING CONSTRUCTION URGED

"Structural engineers engaged in the building industry find one problem continually confronting them that is quite as perplexing as are some of the well-known technical questions," says Engineering News-Record. "This problem is the one of securing adequate compensation for services rendered. Wherever structural engineers gather, the question of fees is a live topic, and often of late the consensus is that direct employment by the owner rather than through an architect is the only panacea. Is such a reform, if reform it be, wise?"

"In the building field the structural engineer is usually employed by the architect, who as the owner's representative directs the job. If the architect knows his business, if he has due regard for his own reputation, if, indeed, he holds the owner's best interests at heart, he will insist upon a fee that is adequate not alone for himself but for the structural engineer who will design the framework for him. There are such architects, many of them. But there are also others who through lack of backbone permit the owner to pare their fees to the danger line. Not much then is left for the structural engineer, and being inadequately paid he is hampered in doing his best in furnishing the owner a safe and efficient structure.

"The structural engineer who accepts employment from such an architect, known for his fee-cutting practices, is of course open to the same charge of lack of character and backbone as is the architect. Whether the engineer would show more professional and personal fortitude in dealing with the owner direct than he does with this type of architect is a moot question. But upon the answer to it would seem to depend the success or failure of a direct-with-owner contract.

"Those attempts which have been made to correct the evils of inadequate compensation and fee cutting have usually been in the nature of appeals broadcast to the public, based on the possibly truthful but nevertheless assumed fact that modern buildings would be built better if the structural

engineering were handled differently. Such appeals are largely fruitless because of public apathy and lack of knowledge. So far as memory serves, no serious attempts have been made to enlist the help of the architect, who obviously is the key factor in any projected change. This is the more surprising because the architect, better than anyone else, should understand the difficulties of the structural engineer, which in many respects are the same as those confronting the architect himself.

"Admittedly, fee cutting is not practiced by the best architects; their business is so handled that it is not necessary. Perhaps, as some structural engineers maintain, these architects would not suffer any disadvantage in permitting the structural engineer to deal direct with the owner, so long as the architect reserved the right to compel the owner to retain a structural engineer satisfactory to him. The same structural engineers also maintain that the other architects, who are always on the ragged edge and who resort to cutting structural engineering fees because their own fees have been being cut by the owner, would probably welcome a divorce from financial dealings with the engineer.

"If these suppositions be true, the advisability of enlisting the help of the architect is all the more apparent. Fee cutting and compensation are questions for arbitration between architects and engineers. The present year should see some progress made in this direction. Also it should witness progress on the part of structural engineers in resisting the efforts of certain architects to reduce engineering fees to a dangerous minimum. Backbone is what is needed first and in largest degree. Conferences between architects and engineers concerning their mutual problems will then produce the required results. Mutual welfare is the only basis upon which both the architect and the engineer can survive, and it is the basis upon which the owner can rest his assurance of safe, more economical and more efficient buildings.

THE OBSERVER

What He Hears and Sees on His Rounds

Plans for substantial increases and decreases in cement duties were made before the tariff commission at Washington last Thursday as it concluded a hearing ordered by a Senate resolution. For the domestic producers, Albert MacC. Barnes of New York asked the levy be raised from 23 to 36 cents a barrel.

Newspaper reporters recently carried the account of a strike in Brooklyn, New York, when painting contractors refused to adopt the use of a three-inch brush instead of a six-inch brush in order to provide work for unemployed painters. The Master Painters' Association has asked the Supreme Court to enjoin the Painters' Union from striking when their request is not acceded to.

Just because there is a business depression and there is no work in sight for contractors, is no reason why they should let their organization go to the dogs and disintegrate.

Everybody realizes that without organization, the whole works gets gummed up and nothing but dry rot accumulates to take the place of pep and safety.

Keep your organization moving along, attend your meetings and give suggestions that will tend to create interest and give some encouragement to the weak sister these distressing times.

Of the 187,290 manufacturing plants in the United States, only 13.7 per cent operate as closed union shops, arbitrarily discriminating against workers who do not possess union membership cards, says the monthly bulletin of the East Bay Industrial Association. "These plants," the bulletin continues, "employ only 7.4 per cent of the 8,284,261 manufacturing wage earners.

"Eleven and nine-tenths per cent of all these manufacturing plants operate as non-union establishments, refusing employment to union members. These plants employ 11.3 per cent of the manufacturing wage earners

"Seventy-four and four-tenths per cent of the total number of manufacturing plants operate under open shop conditions and employ 81.3 per cent of all the factory workers.

"Thus it will be seen that 92.6 per cent of the manufacturing wage earners are employed in either open shops or non-union shops," the bulletin says.

J. D. Ross, formerly superintendent of the city of Seattle light department, has been engaged as consulting engineer by the Public Power Authority of New York, according to word received at Seattle. Mr. Ross will tour the St. Lawrence river area, site of what is proposed as the world's largest hydro-electric power project. As an international development, this project is proposed to produce ultimately 2,000,000 horsepower at a total cost of \$221,000,000. Of this figure \$171,000,000 will be expended in connection with the power project proper and \$50,000,000 for navigation aids.

Cass Gilbert, designer twenty years ago of the Woolworth Building, precursor of the skyscraper of today, received the gold medal of the Society of Arts and Sciences for that achievement recently, and was hailed by many

distinguished men as the prophet of a new and great movement in architecture.

In response, Mr. Gilbert told how he had emphasized the vertical line in his structure—the first great American business building so to employ it—discussed the problems of skyscraper and city congestion, and declared that the most beautiful skyscraper possible has not yet been built.

"It may never be built," he conceded. "Those of us living today may never see it. And remote posterity may never see it, for the need may change and these temporary structures will not last indefinitely. But if the answer has been found in some measure in this work, we have met the challenge and pointed out one of the many ways in which Caliban may be exchanged for Ariel, in which ugliness may flower into beauty, we shall not have lived in vain."

Due to the relatively large number of fatalities which have occurred when well-drilling rigs, derricks, steam shovels, reinforcing steel, dragline excavators, cranes, etc., have been brought into contact with high-voltage overhead electric lines, the State Industrial Accident Commission is preparing a set of Safety Orders to eliminate the hazard. Committees have been formed in San Francisco and Los Angeles, and it is hoped that before the end of the year these orders will have been completed and be in effect.

Based on their 1931 programs, the cement factories in the Moscow Region are to account for 16 per cent of the output of the entire industry and supply cement to 78 plants under construction, as well as to 158 agricultural machine and tractor stations according to the Economic Review of the Soviet Union, a publication issued by the Amtorg Trading Corporation of New York. During the first quarter of 1931, however, these cement factories carried out less than half of their program. At the same time, production costs have increased, due partly to poor organization of work and inefficient utilization of equipment and of fuel.

The National Conference on Street and Highway Safety estimates that states which have laws for licensing motor vehicle drivers after mandatory examination and driving tests have effected a reduction of 29 per cent in traffic death rates. At the same rate, if drivers were licensed after examinations and tests in all the states, 8610 lives would be saved and 290,000 injuries would be prevented each year.

For the last three months the Union Building-Loan Association has noted a marked increase in the number of applications for construction loans on homes in the bay cities.

Character of loans during this period form an interesting comparison with former periods in that relatively few applications are from contractors or builders erecting to sell.

By a great majority applications come from individuals who wish to build for their own occupancy.

This fact, in the opinion of Union Building-Loan officials, points clearly to a new confidence in the future prosperity of this area.

The request for loans are small and obviously represents the wage earning class of our community.

The business depression has now entered the psychological stage, says the Silberberg Research Corporation, investment counselors.

In other words, we are contending not so much with unsound situations or credit difficulties, but rather with a state of mind.

Executives and financiers are hesitating to go ahead with projects which logically could and should be undertaken at this time. They are not going ahead because they have vague, ill-defined fears for the immediate future.

There is a feeling that there has been over-investment in many directions—in buildings, plant, materials—and hence all further investment would prove futile and unprofitable.

This, however, is not a justifiable attitude.

There are alterations in commercial and industrial structures which are badly needed and which can be undertaken at very advantageous terms in the matter of cost, with money in the bank to pay for them.

It is most important that these projects be put under way promptly as a means of breaking up the jam in the flow of business enterprise.

Contracts of the last five months total 1197 millions, about the same as in 1927, says Engineering News-Record. Public-works volume, though the largest on record, is only 10 per cent above last year's figure and 20 per cent above the average of the last five years. Due to the severe slump in building, public construction this year amounts to 57 per cent of total engineering construction, compared with 38 per cent in 1930 and also averaged during the last five years.

New public and corporation securities issued in the last five months total 171 millions. Though this is the smallest volume of the last five years, the public bond component is the largest. It amounts to 41 per cent of the total, or twice the ratio of other years. Common stock issues this year amount only to 7 per cent of total new capital compared with 24 per cent last year, 43 per cent in 1929 and 11 per cent in 1927 and 1928.

An ordinance given first reading by the Richmond City Council reduces the annual plumbers' license fee from \$100 to \$50 per year.

E. T. Kibler has been appointed purchasing agent for the Six Companies, Inc., contractors on the Bower Dam, succeeding A. H. Baer. Kibler will maintain offices at Las Vegas, Nevada.

Average hourly rate for skilled building trades mechanics is \$1.36, same since April, says Engineering News-Record. A year ago it was \$1.39. In manufacturing, the skilled rate is 65c. The national average for common labor is \$4.94c, unchanged from May. A year ago this rate was 56.25c. In manufacturing, the unskilled rate is 47c per hour.

A strike which threatened over a demand for an increase in carpenters' wages at Dubuque, Iowa, was settled with a renewal of the present contract for a term of two years.

A bill passed by the Arizona Legislature over the governor's veto relieves the state engineer of supervision over all dams erected for storage of water for livestock. The state engineer's jurisdiction over other dams is not affected by the new law.

NEW STATUTE LIMITS USE OF TERM "STRUCTURAL ENGINEER"

Two bills amending the act regulating the practice of civil engineering were passed by the California Legislature. One of these, Assembly Bill No. 615, limits the use of the title, "structural engineer," and provides a method whereby civil engineers must qualify before using it.

The other measure, Assembly Bill No. 616, defines the term civil engineer and amends various sections to clarify and strengthen the act.

Both bills have been signed by the governor and will become effective on August 24, next.

The text of the bills as approved by the governor follows:

The people of the State of California do enact as follows:

Assembly Bill No. 615

Section 1. A new section is hereby added to chapter 801, statutes of 1929, to be numbered 1b, and to read as follows:

Section 1b. No person shall use the title "structural engineer" unless he is a registered civil engineer in this state and furthermore unless he has been found qualified as such structural engineer according to the rules and regulations established therefore by the board of registration for civil engineers. Anyone who violates the provisions of this section is guilty of a misdemeanor.

Assembly Bill No. 616

The people of the State of California do enact as follows:

Section 1. Section 1 of chapter 801, statutes of 1929, entitled "An act regulating the practice of civil engineering," is hereby amended to read as follows:

Section 1. In order to safeguard life, health, property, and public welfare, any person practicing, or offering to practice civil engineering in any of its branches in this state, shall hereinafter be required to submit evidence that he is qualified so to practice, and shall be registered as hereinafter provided, and from and after twelve months after this act becomes effective, it shall be unlawful for any person to practice, or offer to practice as a civil engineer in this state, unless such person has been duly registered or specifically exempted as required by the provisions of this act.

Section 2. A new section is hereby added to chapter 801, statutes of 1929, to be numbered 1a, and to read as follows:

Sec. 1a. The term "civil engineering" shall mean that branch of professional engineering which deals with any or all of the following studies, and/or methods, the economics of, the use and design of, materials of construction and the determination of their physical qualities; the supervision of the construction of engineering structures; the investigation of the laws, phenomena, and forces of nature; and surveys and calculations; in connection with fixed works for any or all of the following divisions and/or subjects: irrigation, drainage, water power, water supply, flood control, inland waterways, harbors, municipal improvements, railroads, highways, and airways, and airways, purification of water, sewerage, refuse disposal, foundations, framed and homogeneous structures, buildings and bridges.

Said term shall include city and regional planning in so far as any of the above mentioned activities are concerned therein, and geodetic, cadastral, municipal and topographic surveying, but nothing in this act contained shall be

construed to repeal, alter or modify that certain act entitled "An act to define the duties of and to license land surveyors, and to repeal an act entitled 'An act to define the duties of and to license land surveyors,' approved March 31, 1931," approved March 16, 1931.

The term "civil engineer" shall mean one who practices or offers to practice civil engineering in any of its branches.

The phrase "responsible charge of work" shall mean the control and direction of the investigation, design and construction of works involving some feature of civil engineering, and requiring initiative, skill, and independent judgment.

Sec. 3. Section 11 of chapter 801, statutes of 1929, is hereby amended to read as follows:

Sec. 11. The board shall, from time to time, examine the requirements for the registration of civil engineers in other states, territories and countries and shall record those in which, in the judgment of the board, standards not lower than those provided by this act, are maintained. The board is hereby empowered to arrange for reciprocal registration in this state of civil engineers from other states, territories or countries so recorded under terms mutually agreed upon. The board, upon the presentation to it by any person, of satisfactory evidence that such person holds an unexpired certificate of registration issued by such person by proper authorities in any state, territory, or country, recorded as herein provided, which state, territory or country grants full and equal reciprocal registration rights and privileges to registrants of this board, shall, upon the payment of a fee of five dollars (\$5) to be retained by the board, issue to such person a certificate of registration under this act.

Sec. 4. Section 12 of chapter 801, statutes of 1929, is hereby amended to read as follows:

Sec. 12. (a) It shall be the duty of the board to inquire into the identity of any person not registered as provided in this act and practicing as or claiming to be a civil engineer. The board shall have the power by a two-thirds (2/3) vote to suspend for a period not to exceed two years, or to revoke the certificate of any civil engineer registered hereunder who has been convicted of a felony or who has not a good character or who has been found guilty by the board of any deceit, misrepresentation, violation of contract, fraud or gross incompetency in his practice, or guilty of any fraud or deceit in obtaining his certificate.

(b) Proceedings for the suspension or revocation of certificates of registration shall be begun by filing with the secretary of the board written charges against the accused, such charges shall be in detail, and sworn to under oath by the complainant. The board shall designate a time and place for a hearing and shall notify the accused of this action and furnish him a copy of all charges at least thirty (30) days prior to the date of hearing. The accused shall have the right to appear personally or by counsel, to cross-examine witnesses or to produce witnesses in his defense. The board shall have the power to compel the attendance of witnesses and the production of necessary papers and documents.

The board may reissue a certificate of registration to any person whose

certificate has been revoked; provided, two (2) or more members of the board vote in favor of such reissue for reasons the board may deem sufficient.

Sec. 5. Section 13 of chapter 801, statutes of 1929, is hereby amended to read as follows:

Sec. 13. (a) Any certificate issued under the provisions of this act shall remain in effect until the thirtieth (30th) day of June following the date of issuance of the date of issuance.

(b) Every civil engineer registered under this act who desires to continue the practice of his profession beyond the thirtieth (30th) day of June following the date of issuance of his original certificate shall on or before the thirtieth (30th) day of June of each year pay to the secretary of the board a fee of five dollars (\$5) to be retained by the board, for which fee a renewal certificate of registration for the current year shall be issued. Certificates of registration which have expired for failure to pay renewal fee may be reinstated within one year under rules and regulations prescribed by the board. An unexpired, unrevoked or unexpired certificate and endorsement of registration provided in this act, shall be presumptive evidence in all courts and places that the person named therein is legally registered.

Sec. 6. Section 14 of chapter 801, statutes of 1929, is hereby amended to read as follows:

Sec. 14. Each registrant hereunder may, upon registration, obtain a seal of the design authorized by the board, bearing the registrant's name, number of certificate, and the legend "registered civil engineer." Plans, specifications, plats, reports and other documents issued by a registrant may be stamped with the said seal during the life of the registrant's certificate, but it shall be unlawful for anyone to stamp or seal any plans, specifications, plats, reports, or other documents with said seal after the certificate of the registrant named thereon has expired or has been suspended or revoked, unless said certificate shall have been renewed or reissued.

Sec. 7. Section 15 of chapter 801, statutes of 1929, is hereby amended to read as follows:

Sec. 15. Nothing in this act shall be construed as prohibiting a civil engineer from practicing or offering to practice his profession through the medium of or as employee of a partnership or a corporation, provided that the plans, specifications and reports of such partnership or corporation be signed and be stamped with the seal of each registered civil engineer in specific and responsible charge of the preparation of the same. The same exceptions shall apply to partnerships and corporations as apply to individuals under this act; provided, however, that nothing in this act shall be construed as requiring registration for the purpose of practicing or offering to practice civil engineering, by an individual, firm, partnership or corporation on or in connection with property owned or leased by said individual firm, partnership or corporation, unless the same involves the public health or safety or the health and safety of employees of said individual, firm, partnership or corporation; provided, however, no one shall represent himself as, or use the title of registered civil engineer, or any other title whereby such person could be considered as practicing or offering to practice civil engineering in any of its branches, unless he is so registered by registration under this act. Nothing in this act shall be construed as in any way repealing or abrogating any provision of that certain act entitled "An act to regulate the practice of architecture," approved March 23, 1901, as amended, or in any way re-

pealing or abrogating any amendments to said act.

Sec. 8. Section 16 of chapter 801, statutes of 1929, is hereby amended to read as follows:

Sec. 16. The following shall be exempt from the provisions of this act:

(a) Officers and employees of the United States of America practicing solely as such officers or employees.

(f) A subordinate to a civil engineer registered under this act, or subordinate to a civil engineer exempted under this act, in so far as he is acting in such capacity.

(c) Any architect registered in this state under the provisions of any act to regulate the practice of architecture, in so far as he practices architecture, in its various branches.

(d) Any person, firm or persons, or corporation furnishing, either alone or with sub-contractors, labor and materials (with or without plans, drawings, specifications, instruments of service or other data covering such labor and materials), for such as: front, interior alterations or additions, fixtures, cabinet work, furniture or other appliances or equipment, or for any work necessary to provide for their installation, or for any alterations or additions to any building necessary to or attendant upon the installation of such store fronts, interior alterations or additions, fixtures, cabinet work, furniture, appliances or equipment.

(e) Any person not a resident of the State of California, qualified as a civil engineer, offering to practice but not practicing civil engineering in this state who does not have or maintain a regular place of business in this state.

(f) Any person practicing civil engineering in this state who does not maintain a regular place of business in this state and who does not practice for more than sixty days in any one calendar year, providing that such person shall be qualified as a civil engineer and shall, before engaging in such practice, notify the board in writing of his intention so to do, stating in said notice the approximate date when he intends to commence such practice and the approximate length of time he expects to continue in such practice. In which event the secretary of the board, after having determined that the applicant is qualified, and after the payment by the applicant of a fee of ten dollars (\$10) is hereby empowered to issue a temporary license to practice for a period of not to exceed sixty (60) days.

(g) Any person, firm or corporation holding a license as real estate broker or real estate salesman, when making appraisals and valuations of real estate properties, which engaged in the business or acting in the capacity of a real estate broker or a real estate salesman, within the meaning of the California real estate act.

Sec. 9. Section 17 of chapter 801, statutes of 1929, is hereby amended to read as follows:

Sec. 17. (a) Any person, who is not legally authorized to practice civil engineering in this state according to the provisions of this act and shall so practice, or offer to practice except he be exempt under this act, and any person presenting or attempting to file as his own the certificate of registration of another, or who shall give false evidence of any kind to the board, or to any member thereof, in obtaining a certificate of registration, or who shall falsely impersonate, or use the seal of any other practitioner, of like or different name, or who shall use an expired or revoked certificate of registration shall be deemed guilty of a misdemeanor and shall for each such offense of which he is convicted be punished by a fine of not more than five hundred dollars (\$500) or by imprisonment not to exceed three

months, or by both fine and imprisonment.

(b) It shall be the duty of the respective officers charged with the enforcement of laws and ordinances to prosecute all persons charged with the violation of any of the provisions of this act. It shall be the duty of the secretary of the board, under the direction of the board, to aid such officers in the enforcement of this act.

DEFENSE OF YOUR TITLE

(By J. S. LOOFBOUROW, Executive Vice-President, Calif. Title Insurance Co.)

One of the advantages of a policy of Title Insurance offers over a Guarantee of Title is that in a policy of title company obligates itself to defend all attacks that may be made against the interest of the insured.

Hertefore, the title company became responsible to pay certain losses only after they have been established by a court of last resort. In other words, if the title was attacked and the insured had to defend it. If he was successful and no loss therefore occurred, there was no liability.

With the policy, however, there is a definite obligation on the part of the title company to carry on the defense. The title company stands as a protection between the claimant and the insured. This is not merely a gesture but a real protection as will be seen from the fact that the expense in the defense of titles last year by local title companies ran well over the aggregate amount expended the past five years.

This defense must ward off blackmail attempts to get nuisance-value settlements; claims arising out of the interests of heirs or alleged heirs; claims of easements, mechanics' liens, and all manner of similar liens and claims, even to forgery and false impersonation; claims arising out of irregularities in trustee's sales, and so forth.

Some of these strike only at the incumbrances insured and some strike at the very root of the title itself. In connection with the risks that strike at the whole title, quite frequently a new problem arises. The title company has agreed to defend, but the value of the property is now far in excess of the original policy because of subsequent improvements or discoveries that the owner has much more to lose than the title company. It becomes important, therefore, that he protect his larger value. He may wish to compromise; to handle the defense in a different way; to proceed with other settlement negotiations, but these all invalidate his policy of title insurance.

The only way for him to protect against such contingencies is to insure his property for its full value. If improvements are added, title insurance should be increased. If the property enhances in value, title insurance should be increased, for, even though there were no complications growing out of the defense provision, many of these claims strike at the complete title and should they prevail, the only salvage that the insured owner has is the face of his policy.

When 1931 comes to an end, \$423,478,300 will have been spent for industrial buildings. It is estimated by Domestic Engineering. This does not include expenditure for public works and utilities, which together equal another billion and a half dollars. Expenditures alone will amount to \$700,000,000. Out of every dollar spent for building, 9.3 cents go for plumbing, while 7 cents go for heating, says the publication.

PERMIT FIGURES SHOW DECLINE

Building permits issued in 555 cities and towns of the United States during the month of May, 1931, amounted to \$129,467,981, according to official reports made to S. W. Straus & Co. This figure represents an 18% decline from April of this year, when the volume was \$170,115,330. Normally there is a seasonal decline of about 11.8% between the two months. The permits issued during May fell 30% below the same month of 1930.

MUNICIPAL WORKERS GO ON 5-DAY WEEK

A resolution establishing the 5-day week for per diem employees of the city has been passed by the Board of Supervisors.

After much discussion the resolution was passed when it was pointed out that the new order would permit the employment of a greater number of men. At the present time city employees are employed five and one-half days a week and receive pay for six days.

"Modernization is the weapon against building senility" says Charles F. Palmer, President National Association of Building Owners and Managers in the Architectural Forum for July.

"Obsolescence" continues Mr. Palmer, "is the unseen enemy of the office building, creeping in and bringing destruction of property values through a slow, wearing process. The signs of obsolescence cannot be readily determined until it has advanced beyond the primary stages. Once they are seen they must be vigorously dealt with, lest the property go down grade with a speed unwarrented by the actual years of the building.

"The alert building owner and manager can do much to guard against obsolescence in the beginning and can accomplish wonders even after the symptoms become pronounced. The remedy is, of course, modernization. Architectural fashions change, mechanical methods are undergoing constant development, new materials are being put to use and new appliances are being put into service as time passes. The new buildings have these advantages. The introduction of each innovation speeds the obsolescence of the old buildings. That obsolescence can be retarded by adopting the new things to such an extent as the design of the building will permit.

"Perhaps we cannot change the structural design, but we can do a thousand and one things to make the buildings as serviceable and as comfortable as the best of the new ones."

A magazine publication entitled, Westinghouse Arc Welding Data Bulletin No. 35, has recently been announced. This booklet contains illustrations of many unusual arc welding achievements, explains with the aid of diagrams various methods of testing, and discusses methods for obtaining good welds. Copies of this publication (D.M.F. 5259) may be obtained from the nearest Westinghouse district office or directly from the advertising department, Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa.

More than 200 miles of all-concrete roads were built in Great Britain during 1930, which constitutes a record for any one year, according to a report received by the U. S. Department of Commerce.

Sam Hanley, city engineer of Renton, Wash., for the past ten year, died in that city recently at the age of 53 years.

Building News Section

APARTMENTS

Preparing Plans
APARTMENTS Cost, \$250,000
SAN FRANCISCO, Cal., Cor Fillmore and Pacific Ave.
 6-story and basement, reinforced concrete apartment house (2-story basement for garages, steam heat, oil burner, composition roof, 2 elevators, electric refrigeration, incinerator, etc.)

Owner—Marian Realty Co., 110 Sutter St., San Francisco.
 Architect—H. C. Baumann, 251 Kearny St., San Francisco.

60 apartments, 2-3 rooms. All modern equipment and finishing.

Taking Segregated Figures.
APARTMENTS Cost, \$40,000
SAN FRANCISCO. E Fillmore St. S. Jefferson St.

Three-story and basement frame and stucco apartments (12 3-rm apts.)
 Owner and Builder—M. P. Storheim, 475 Euclid Ave.

Architect—R. R. Irvine, Call Bldg.
 Composition roof, steam heating system, gas fire boiler, etc.

BONDS

SAN ANDREA, Calaveras Co., Cal.—West Point Union School District votes bonds of \$7500 to finance erection of a new school. Trustees of the district are: Winnia Bardsley, Thelma Porteous, Harold Havens, W. W. Congdon and Claude T. Smith.

DEL MONTE, Monterey Co., Cal.—Election will be held in July by the Del Monte School Dist. to vote bonds of \$24,000 to finance erection of additions to the present plants of the Del Monte and Seaside Schools.

CHURCHES

Sub-Contracts Awarded.
CHURCH Cost, \$40,000
SAN FRANCISCO. Bush Street near Divisadero Street.

One-story frame church.
 Owner—West Side Christian Church.
 Architect—Bertz, Winter and Maury, 210 Post Street.

Contractor—Jacks and Irvine, 74 New Montgomery Street.

Acoustical Work—Western Asbestos
 Magnesite Co., 25 South Park.
 Steel Sash—Soule Steel Co., Rialto Bldg.

Contract Awarded.
CHURCH Cost, \$35,000
NAPA, Napa Co., Cal. Third and Patchett Streets.

One-story steel frame and reinforced concrete church.
 Owner—St. Mary's Episcopal Church, Napa.

Architect—C. Leroy Hunt, Second and Main Sts., Napa.

Contractor—E. W. Doughty, 1125 1st St., Napa.

FACTORIES AND WAREHOUSES

Sub-Bldg Being Taken.
LAUNDRY Cost, \$40,000
SAN FRANCISCO. Heron St. east of 8th St.

Three-story reinforced concrete case

B laundry.
 Owner—Amalgamated Laundry Co., 385 8th St.
 Architect—Hyman & Appleton, 68 Post Street.

Contractor—Barrett & Hilp, 918 Harrison Street.
 Subbids particularly wanted on plastering, plumbing, electrical work, sheet metal, roofing and miscellaneous iron.

Bids Opened.
STATION BLDG. Cost, \$—
BOONVILLE, Mendocino Co., Cal.
 Highway Maintenance Station, consisting of superintendent's cottage; combination woodshed and garage; blacksmith shop, septic tank, yard trellis and clothes line posts.

Owner—State of California (State Highway Commission).
 Engineer—John H. Skaggs, district engineer, State Highway Commission, 211 State Bldg., San Francisco.

The work of this contract comprises excavation, concrete and masonry work, carpentry and millwork, lathing and plastering, sheet metal work, painting, plumbing, heating and electrical installations.

Following is a complete list of bids:
 Theo. Johanns, 741 14th Street
 San Francisco.....\$5,598
 R. Hodgson & Son, Porterville..... 5,750
 Wm. Spivock, San Francisco..... 6,200
 J. W. Cobby & Son, S. F..... 6,645
 O. S. Almie, San Francisco..... 5,935
 Chas. Swansfelt, San Francisco, 7,000
 E. G. Hart, San Francisco..... 7,100
 Bids held under advisement.

Bids Rejected; Work Postponed
SHOP BLDG. Cost, \$13,000
SANTA ROSA, Sonoma Co., Cal.
 Brick addition for high school shop (40-54-ft.; housing auto mechanics department and general repair shop).

Owner—Santa Rosa High School Dist.
 Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.
 Low Bidder—Ralph McLeran Co., Hearst Bldg., S. F.\$12,321

Contract Awarded.
FACTORY Cost, \$—
BURBANK, Los Angeles Co., Calif.
 Front and Verdugo Streets.
 One- and two-story concrete and brick underwear factory (20,000 sq. ft.)

SKILSAW Portable Electric Hand Saws (4 models).

SKILSAW Portable Electric Sander
SKILSAW Radial Arm Attachments.

SYNTRON Portable Electric Hammers (4 models, motorless).

MALL Flexible Shaft Machines (50 models).
 Electric Drills, Grinders, Buffers, Routers, Lock Mortisers.

PETER H. NELSON
 Labor Saving Portable Electric Tools.

1248 Mission St. **UNDERHILL**
 San Francisco **7662**
SALES . SERVICE . RENTALS

Owner—Cooper's, 750 S Los Angeles St., Los Angeles.
 Architect—Harry T. Miller, 4814 Loma Vista, Los Angeles.
 4814 Loma Vista, Los Angeles.

Bids Opened.
STATION BLDG. Cost, \$—
LIVERMORE, Alameda Co., Cal. One mile west of Livermore.

Highway Maintenance Station, consisting of superintendent's cottage; combination woodshed and garage; blacksmith shop, septic tank and clothes line posts.
 Owner—State of California (State Highway Commission).

Engineer—John H. Skaggs, district engineer, State Highway Commission, 211 State Bldg., San Francisco.

The work of this contract comprises excavation, concrete and masonry work, carpentry and millwork, lathing and plastering, sheet metal work, painting, plumbing, heating and electrical installations.

Following is a complete list of bids:
 Theo. Johanns, 741 14th Street, San Francisco.....\$5,161
 R. Hodgson & Son, Forterville..... 5,490
 The Minton Co., Mt. View..... 5,499
 C. A. Bruce, Pleasanton..... 5,654
 Wm. Spivock, San Francisco..... 5,828
 Arthur Holyoke, Hayward..... 5,986
 N. H. Sjoberg & Son, S. F..... 6,483
 O. S. Almie, San Francisco..... 6,589
 Bids held under advisement.

Taking Sub-Bids.
WAREHOUSE Cost, \$20,000
OAKLAND, Alameda Co., Cal. South Seventh St. E Fallon St.
 One-story reinforced concrete warehouse.

Owner—George R. Borrmann Steel Co., 4th and Grove Sts., Oakland.
 Engineer—H. W. Bolin, Financial Center Bldg., Oakland.
 Contractor—H. J. Christensen, Ray Bldg., Oakland.

Structural Steel—Pacific Coast Engineering Co., Foot of 14th St., Oakland.

Completing Plans.
FACTORY Cost, \$1,000,000-\$1,500,000
ALAMEDA, Alameda Co., Cal. Fernside and Versailles Aves.

Factory building.
 Owner—Owens-Illinois Glass Co., (W. I. Cole, Mfg.) 133 Kearny St., San Francisco.

Plans by Eng. Dept. of Owner, Toledo, Ohio (H. Barnard, chief engineer).

A zoning ordinance permitting the erection of the factory at the above site was passed this week and plans will go ahead immediately.

Preparing Preliminary Plans.
LAUNDRY Cost, \$10,000
VALLEJO, Solano Co., Cal.

One- and two-story reinforced concrete laundry (50x75); composition roof; steel sash.

Owner—Vallejo Steam Laundry, 301 Pennsylvania St., Vallejo.

Plans by builder.
 Contractor—G. Parenchi, Vallejo.

Contract Awarded.
CEMENT PLANT Cost, \$2,250,000
SAN JOSE, Santa Clara Co., Cal. Eight miles southwest of San Jose.
 Cement manufacturing plant.
 Owner—San Jose Cement Co., Ltd., Ernest H. Dettner, president, 835

Howard St., San Francisco.
 Engineers & Contractors—Hunt-Mirk
 & Co., 141 2nd St., San Francisco.
 Bids Opened—Held Under Advertisment
 SUPERSTRUCTURE Cost, \$269,000
 OAKLAND, Alameda Co., Cal. Outer
 Harbor Terminal.

Superstructure for 3-story reinforced
 concrete warehouse ("C"); 210x280
 Owner—City of Oakland Port Com-
 mission (G. B. Hegardt, secretary)
 424 Oakland Bank Bldg., Oakland,
 Calif. by Eng. Dept. of Owner.
 Low Bidder—Schuler and McDonald,
 1723 Webster St., Oakland.

Complete list of bids follows:
 Schuler & McDonald, Oakland, 167,773
 Cahill Bros., San Francisco, 168,250
 Geo. Peterson, San Leandro, 169,700
 R. W. Littlefield, Oakland, 172,240
 Mission Concrete Co., S. F., 176,531
 K. E. Parker Co., S. F., 182,500
 Geo. Swanstrom, Oakland, 182,970
 MacDonald & Kahn, S. F., 182,999
 David Nordstrom, Oakland, 183,156
 P. C. Maurer, Oakland, 185,000
 F. E. Amoroso & Son, S. F., 187,000
 Bart & Hill, S. F., 191,245
 Bidwidge Const. Co., S. F., 192,450
 Dinwiddie Const. Co., Oak-
 land, 196,227

Sprinkler System

J. H. Pinkerton, 927 Howard St.,
 San Francisco, \$7392
 The Turner Co., San Francisco, \$500
 Automatic Sprinkler Co., Oakland 9141
 Grinnel Co., of Pacific, S. F., 9250

Freight Elevators

Spencer Elevator Co., 166 7th St.,
 San Francisco, \$6700
 Otis Elevator Co., S. F., 7945
 Pacific Elevator Equip. Co., San
 Francisco, 8647

Rolling Doors

Kennerson Mfg. Co., 361 Brannan
 St., San Francisco, \$4688
 J. G. Wilson Corp., San Francisco 4772
 Cornell Iron Works, S. F., 5050
 Gunn, Carle & Co., San Francisco 5120
 Rolph, Mills & Co., S. F., 6148

GARAGES AND SERVICE STATIONS

Plans Being Figured—Close June 30.
 SERVICE STATION Cost, \$7000
 SACRAMENTO, Sacramento Co., Cal.
 Fifteenth and N Streets.
 Service station (steel frame construc-
 tion).

Owner—General Petroleum Co., 1924
 Broadway, Oakland.
 Plans by Owner's Engineers.

Fill and Retaining Wall Bids Wanted.
 SERVICE STATION Cost, \$7500
 SAN FRANCISCO. Eighteenth Street
 and Potrero Avenue.

Service station (steel frame construc-
 tion).

Owner—General Petroleum Co., 1924
 Broadway, Oakland.

Plans by Eng. Dept. of Owner.
 Fill and retaining wall bids wanted.
 General construction bids will be cal-
 led about July 15.

Sub-Contracts Awarded.
 AUTO SALES BLDG. Cost, \$50,000
 PALO ALTO. Santa Clara Co., Cal.
 High St. and Forest Ave.

One-story reinforced concrete sales
 and service building (105x225 feet,
 Spanish design; showroom, offices,
 super-service station, repair shop,
 used-car department; flagstone
 floors, heavy beam ceilings, tile
 roof, electric heating).

Owner—Shaw Motor Co., Ltd., Em-
 erson and Homer Sts., Palo Alto.
 Designer—A. C. Shaw.
 Specifications by J. D. Campbell, 15
 Crescent St., Palo Alto.

Steel—W. C. Hauck & Co., 250 San
 Bruno Ave., San Francisco.
 Concrete—E. C. Bateman, Palo Alto.
 Plumbing—J. Dahl, Palo Alto.

Bids are being taken by Mr. Camp-
 bell, who is supervising construction.

GOVERNMENT WORK AND SUPPLIES

WASHINGTON, D. C.—Until July 2,
 bids will be received by the Bureau
 of Supplies and Accounts, Navy De-
 partment, Washington, D. C., to fur-
 nish and deliver miscellaneous sup-
 plies and equipment to various West
 Coast Navy Yards and Stations, as
 follows:

Puget Sound, 3 laundry presses;
 sch. 5906.

Mare Island, 3 motor-driven engine
 lathes; sch. 5908.

Mare Island, 232 ball bearings; sch.
 5919.

San Francisco, 4 corrugated furn-
 ces; sch. 5918.

Mare Island, 300 pneumatic rivet
 sets; sch. 5940.

Puget Sound, 290 sheets non-shat-
 terable glass; sch. 5935.

Mare Island, 10,200 lbs. kraft paper;
 sch. 5933.

Mare Island, 8,500 yds. black enamel
 cloth; sch. 5932.

Western yards, bar rivet steel; sch.
 5953.

Puget Sound, 2 motor-driven engine
 lathes; sch. 5943.

Mare Island, 400 mechanical tele-
 graph chains, brass; sch. 5941.

Western yards, 40 telegraph keys
 and sounders; sch. 5917.

Mare Island, 22,000 ft. b.m. boat
 planking; sch. 5936.

Puget Sound, 1300 counter dust
 brushes; sch. 5944.

Mare Island, 50 vibrating horns; sch.
 5949.

Western yards, copper-nickel-alloy,
 bar and shot; sch. 5951.

Mare Island and Puget Sound, alu-
 minum and aluminum-alloy, sheet and
 ingot; sch. 5968.

F.O.B. works, 135 electric refrigera-
 tors; sch. 5967.

Western yards, iron and steel, brass
 fitting rods, etc.; sch. 5966.

Mare Island, 10,000 lbs. manganese-
 nickel; sch. 5947.

Further information regarding the
 materials and equipment concerned in
 the above schedules is obtainable from
 the Navy Purchasing Office, 100 Har-
 rison St., San Francisco.

Contract Awarded.
 PARTITIONS, ETC. Cost, \$—
 SAN FRANCISCO. 100 Harrison St.

Install partitions, plumbing, etc., on
 4th floor of Marine Corps Depot of
 Supplies (Spec. No. 6589).

Owner—United States Government.
 Plans by Public Works Officer, 12th
 Naval District, 100 Harrison St.

Contractor—Theo. Johanns, 741 14th
 Street.

BOULDER CITY, Nevada.—Storm &
 Mahoney, Mountain View Ave., Pom-
 mona, and Las Vegas, Nevada, sub-
 mitted low bid of \$29,485 to U. S. Bu-
 reau of Reclamation at Las Vegas for

excavation of basements and founda-
 tions, grading of building sites, and
 construction of concrete foundations
 for the administration and dormitory
 buildings at Boulder City, Nev. The
 bid does not include excavation and
 foundations for the hospital building,
 which was first included in the adver-
 tisement and later eliminated on ac-
 count of being turned over to the Six
 Companies. Wheelwright Constr. Co.,
 Ogden, submitted the only other bid
 at \$46,400.

The work includes all
 classes of excavation, grading excava-
 tion, concrete work, backfill, and
 placing reinforcing bars and fabric
 and miscellaneous metal work. The
 government will furnish a portion of
 the materials.

Plans Being Figured—Bids Close July
 10, 3 P. M.

Oil Burner Equipment. Cost, \$—
 CARSON CITY, Nevada.

Oil burning equipment for U. S. Post
 Office.

Owner—U. S. Government.
 Plans by Supervising Architect, Treas-
 ury Department, Washington, D.
 C.

Plans obtainable from the Custodian
 in the U. S. Post Office at Carson
 City or from the Supervising Architect
 at Washington, D. C.

PANAMA CANAL ZONE—See "Res-
 ervoires and Dams," this issue. Bids
 wanted to construct Madden Dam,
 power plant and appurtenant works,
 near the village of Alhajuela on the
 upper Cagres River in the Panama
 Canal Zone.

BOULDER CITY, Nevada—Until 10
 A. M., July 15, bids will be received by
 the U. S. Bureau of Reclamation, Las
 Vegas, Nev., for the construction of
 six 4-room and six 3-room dwellings at
 Boulder City. They will have con-
 crete foundations, All-Rokk Flemish
 bond, hollow brick outside walls, air
 built-up and composition shingle
 roofs. Award will be made for the
 twelve dwellings complete. A portion
 of the materials will be furnished by
 the government. No charge for plans
 will be made bona fide bidders. Guar-
 antee for 10 per cent must accompany
 each bid. Bidding data may be ob-
 tained from the U. S. Bureau of Re-
 clamation at Denver, Colo., or Las
 Vegas, Nev. R. F. Walter, chief en-
 gineer.

Plans Being Figured—To Close July
 20th.

REMODELING Cost, \$—

LIVERMORE, Alameda Co., Cal.
 Remodel messroom and kitchen, build
 debris porch.

Owner—U. S. Government (Veterans'
 Bureau, Washington, D. C.)

Plans by Construction Supervisor, U.
 S. Veterans' Hospital, Palo Alto.

Site Selected—Plans Being Prepared.

POSTOFFICE Cost, \$—

NAPA, Napa Co., Cal. (Easterly prop-
 erty) Randolph and 2nd Sts.

Class A postoffice (site 240 ft. on 2nd
 St. and 120 ft. in Randolph and
 Franklin Sts.)

Owner—U. S. Government.

Plans by Supervising Architect,
 Treasury Dept., Washington, D. C.

Plans Being Figured—Bids Close July
 21st.

OFFICES Total cost, \$2,375,000
 SEATTLE, Wash.

Superstructure, except elevators, for
 Federal office building.

Owner—United States Government.
 Plans by Supervising Architect,
 Treasury Dept., Washington, D. C.

Plans for this work are obtainable
 from the Supervising Architect, Wash-
 ington, D. C., on deposit of \$50, return-
 able.

MARE ISLAND—SAN DIEGO, Cal.—
 Bureau of Yards and Docks, Navy De-
 partment, Washington, D. C., rejects
 bids under Spec. No. 6460, to furnish
 floating derricks for Mare Island Navy
 Yard and San Diego. Bids were open-
 ed on May 13.

PUGET SOUND, Wash.—Otis El-
 evator Co., Seattle, at \$7,230 awarded
 contract by Supervising Architect,
 Treasury Department, to furnish and
 install passenger elevator at U. S. Na-
 val Hospital, Puget Sound under Spec.
 No. 6518.

SAN FRANCISCO—Until July 8, un-
 der Circular No. 102, bids will be re-
 ceived by Signal Section, S. F. Gen-
 eral Depot, Procurement Division,
 San Francisco, to furnish one motor-driven
 saw. Spec. obtainable from above.

PEARL HARBOR T. H.—R. W. Kal-
 tenbach Corp., Eebford, Ohio, at \$28,-
 389 awarded contract by Bureau of
 Yards and Docks, Navy Department,

for revolving crane at Pearl Harbor, T. H., under Spec. No. 6453.

June 20, 1931
Bids Wanted-To Close July 22, 3 P. M.
POST OFFICE Cost, \$300,000
 LAS VEGAS, Nevada.
 Two-story and basement class A post office (terra cotta facing).
 Owner—United States Government.
 Plans by Supervising Architect, Washington, D. C.

HOTELS

Contract Awarded.
HOTEL Cost, \$250,000
 SAN FRANCISCO. Powell and Clay Streets.
 Seven-story class B steel frame and concrete hotel.
 Owner—Young Women's Christian Association, 620 Sutter St.
 Architect—Miss Julia Morgan, Merchants' Exchange Bldg.
 Contractor—K. E. Parker Co., 135 So. Park.

Sub-Contracts Awarded.
MEMORIAL BLDG. Cost price \$13,944
 AUBURN, Placer Co., Cal.
 One-story and basement frame and stucco Veterans' Memorial Bldg.
 Architect—W. E. Coffman, Forum Bldg., Sacramento.
 Contractor—J. M. Stoffels, Roseville.
 Masonry—N. Fanti, Roseville.
 Carpentry—J. M. Stoffels, Roseville.
 Heating—Auburn Lbr. Co., Auburn.
 Plumbing—Auburn Lbr. Co., Auburn.
 Electric Wiring—Franklin Elec. Co., Roseville.
 Millwork—C. W. McAlpin, Roseville.
Structural Steel, Reinforcing Steel and Ornamental Iron—Palm Iron and Bridge Works, Sacramento.
Roofing—San Joaquin Lbr. Co., Sacramento.

Painting—J. Soril, Roseville.
Contractor—J. M. Stoffels, Roseville.
Marble and Tile—H. O. Adams, Sacramento.
Glass and Glazing—W. P. Fuller and Co., Sacramento.
Steel Sash—H. Todd, Sacramento.

Plans Being Prepared.
BUILDING Cost, \$10,000
 SAN FRANCISCO. Joyce and Clay Streets.
 Two-story reinforced concrete building (Chinese style).
 Owner—Chinese Y. W. C. A., 897 Sacramento St.
 Architect—Miss Julia Morgan, Merchants Exchange Bldg.

HOSPITALS

Bids Wanted—To Close July 14, 10 A. M.
HOSPITAL UNIT Cost, \$150,000
 FRESNO, Fresno Co., Cal.
 Crippled Children's and Surgery Bldg. for County Hospital.
 Owner—Fresno County, D. M. Barnwell, county clerk.
 Architect—Swartz and Ryland, Brix Bldg., Fresno.

Bids are being received under thirteen segregations, including general contract, brickwork, plumbing, heating and ventilating, electrical work, terra cotta tile roofing, lathing and plastering, millwork, floor covering, elevators, tile flooring and wainscoting and painting.

Under the specifications, preference is to be given Fresno materials and labor. Employees must be citizens and must have resided in Fresno county at least six months. Plans are obtainable from the architects.

To Take Sub-Bids.
HOME Cost Approx. \$175,000
 SAN FRANCISCO. University and Cambridge Streets.
 Two and three-story reinforced concrete and brick Home for Aged.

Owner—University Mound Old Ladies' Home.
 Architect—Alfred Coffey and Martin Kist, Flanigan Bldg., San Francisco.
 Contractor—J. R. Scully, Flanigan Bldg., San Francisco.
 After June 23, contractor will be taking sub-bids on all portions of the above work.

Plans Completed
BUILDINGS Cost, \$10,000 each
 OAKLAND, Alameda Co., Cal. Del Valle Tuberculosis Farm.
 Two Preventorium buildings.
 Owner—County of Alameda.
 Architect—H. H. Meyers, Kohl Bldg., San Francisco.
 One building will be an open-air pavilion.
 Plans have been submitted for final approval. Bids will be asked shortly.

Preliminary Plans Prepared.
HOME Cost, \$100,000
 SAN DIEGO, San Diego Co., Cal. Thirty-fifth St. and Ocean Blvd.
 Fireproof Home for Aged.
 Owner—Healing Hand Home Corp., San Diego.
 Architect—Quayle Bros., 601 Spreckels Bldg., San Diego.

Bids Opened—Held Under Advertisment.
REFRIGERATOR Cost, \$—
 SAN JOSE, Santa Clara Co., Cal.
 Furnish and install ice making and refrigerating plant for service bldg. at Santa Clara County Hospital.
 Owner—County of Santa Clara, Henry A. Pfister, county clerk.
 Architect—Not Given.
 Low Bidder—Carbondale Machinery Co., 1031 S Broadway, Los Angeles, \$11,630.

Complete list of bids follows:
 Carbondale Mch'y Co., L. A. \$11,630
 Cyclope Iron Works, S. F. 11,865
 F. H. Raffo, San Francisco 12,160
 Pacific Ice Machine Co., S. F. 12,170
 York Ice Machine Co., S. F. 13,514
 Baker Machinery Co., S. F. 13,840

June 23, 1931
 Sub-Contracts Awarded.
WARD UNIT Cost, \$60,000
 TALMADGE, Mendocino Co., Cal.
 Two-story concrete Ward Bldg. No. 14
 Owner—State of California.
 Architect—State Department of Public Works, Division of Architecture, Geo. B. McDougall, State Architect, Public Works Bldg., Sacramento.

Contractor—The Minton Co. Palo Alto Glass—Cobledick - Kibbe Glass Co., 666 Howard St., San Francisco.
Ornamental Iron—Liberty Ornamental Iron & Wire Co., 2937 Filbert St., Oakland.
Roofing—W. J. Porter, San Jose.
Excavating—Ukiah Excavating Company, Ukiah.

The building is two stories with concrete floors and walls, concrete and tile partitions, wood roof construction and tile roof. The total floor area is approximately 16,500 sq. ft.

Plans Being Figured—Bids Close July 7, 3 P. M.
REMODELING Cost, \$—
 RENO, Nevada.
 Remodeling Nevada State Insane Asylum.
 Owner—State of Nevada.
 Architect—George A. Ferris & Son, Chadianos Bldg., Reno.
 Bids are being received by George B. Russell, state treasurer, at Carson City and will be opened by the State Board of Commissioners of the Nevada State Hospital for Mental Diseases. Certified check 10% required with bid. Plans obtainable from the architects.

HOTELS

Plumbing and Heating Contracts Awarded.
REMODEL HOTEL Cost, \$30,000
 SAN FRANCISCO, Grant Ave. and California Street.
 Remodeling three upper floors of 4-story building for hotel (55 rooms, 20 baths).
 Owner—E. McVine.
 Lessee—Withheld.
 Plans by G. G. Shimamoto, 1551 Laguna St., San Francisco.
 Contractor—Peter Sartorio, 2140 Greenwich St., San Francisco.

Plumbing—Robert E. Buckley, 1767A Geary St., \$5,000.
Heating—Atlas Heating & Vent. Co., 557 4th St., \$2,700.

Sub-Bids Being Taken.
HOTEL Cost, \$300,000
 SAN FRANCISCO. Powell and Clay Streets.
 Seven-story Class B steel frame and concrete hotel (concrete and composition roof; assembly hall with small stage).
 Owner—Young Women's Christian Association at 620 Sutter St., S. F.
 Architect—Miss Julia Morgan, Merchants' Exchange Bldg., S. F.
 Contractor—K. E. Parker Co., 135 South Park, San Francisco.

Preparing Plans.
ADDITION Cost, \$600,000
 RENO, Nevada.
 Additional wing to 6-story reinforced concrete hotel.
 Owner—Riverside Hotel Co. (George Wingfield, Pres.), Reno.
 Architect—F. J. DeLongchamps, Gazette Bldg., Reno.
 Engineers—Hunter & Hudson, 41 Sutter St., San Francisco.

POWER PLANTS

SAN DIEGO, Calif.—City council is considering a contract whereby firm of Fairbanks, Morse & Co. will install a Diesel engine lighting plant with payment for the same through savings over present operations. The company guarantees that payment can be made in ten years.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

CALIFORNIA—Western Electric Co. 225 Bush St., San Francisco, at \$39,519.56 awarded contract by State Department of Public Works to furnish and install motion picture sound equipment in eleven state hospitals, correctional homes and schools.

Preparing Plans
REBUILD FIRE HOUSE Cost, \$30,000
 STOCKTON, San Joaquin Co., Cal. Hunter Street.
 Remodel two-story brick and concrete fire house (4 fire fighting units—rebuild front of building).
 Owner—City of Stockton.
 Architect—Peter Sala, 2130 N. Commercial St.

LOS ANGELES, Calif.—Weymouth Crowell Co., 2104 E 15th St., has started work on the erection of two wings to be added to the new state office building under construction at First and Spring Sts. Consolidated Steel Corp., 1200 N Main St., has the structural steel contract. John C. Austin and Frederick M. Ashley, architects, Chamber of Commerce Bldg. The wings will project eastward and westward from the main structure, each to be nine stories in height; steel frame construction, granite and terra cotta exterior, steel sash, etc. The state has appropriated \$607,350 for the work. The mechanical work will be installed by the following firms: Pa-

cific Pipe & Supply Co., 1002 Santa Fe Ave., plumbing; Lohman Bros., 232 S Spring St., heating; J. Herman Co., 1349 E Vernon Ave., ventilating; H. H. Walker, 1323 W Venice Blvd., electric wiring.

Contracts Awarded.
FIRE HOUSE Cost, \$—
SAN FRANCISCO. Lombard Street bet. Broderick and Baker. Brick fire house.
 Owner—City and County of San Francisco (S. J. Hester, secretary, Board of Public Works).
 Architect—W. E. Baumberger, 544 Market Street.
 The structure will house an engine company, truck company, chemical company and hose tender.

General Contractor—Vogt & Davidson
 35 Stevenson St., \$30,817.
Electric Work—L. Flatland, 1899 Mission St., \$1,680.

Mechanical Equipment—M. Desiano
 Co., 5335 Mission St., \$6,865.
 Following is a complete list of bids:

General Contract

Vogt & Davidson	.....\$30,817
F. H. Larsen	.....31,714
F. C. Amoroso & Sons	.....31,960
F. J. Reilly	.....32,783
Wm. Spivock	.....33,331
N. H. Sjolberg & Son	.....33,472
H. L. Peterson	.....33,963
MacDonald & Kahn	.....35,381
F. F. Reilly & Grace	.....35,795
I. Epp & Son	.....35,960
Larsen & Larsen	.....36,693
Mission Concrete Co.	.....37,962

Bid of J. A. Bryant at \$34,898 arrived too late to be considered.

Electric Work

L. Flatland	.....\$1,680
Atlas Elec. & Eng. Co.	.....1,817
W. B. Baker & Co., Inc.	.....1,878
Edward F. Dowd	.....1,945
Superior Electric Co.	.....2,175

Mechanical Equipment, Heating System, Plumbing and Gas Fitting Work

N. Desiano Co.	.....\$6,865
Scott Company	.....7,253
O. Aaron	.....7,383
Herman Lawson	.....7,900

Contracts Awarded.
POLICE STATION Cost, \$60,000
SAN FRANCISCO. Golden Gate Park. One-story reinforced concrete police station.
 Owner—City and County of San Francisco (S. J. Hester, Sect'y., Board of Public Works).
 Architect—Weeks and Day, Financial Center Bldg.

General Work

Wm. Spivock, Hohart Bldg.\$38,443
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Plumbing and Mechanical Work

O'Mara & Stewart, 215 Clara St.\$5,777
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Electrical Work

W. B. Baker, 279 6th St.\$1,876
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Contract Awarded.
LIBRARY Cost, \$17,382
SILVER, Nevada. B Street. One-story brick and concrete, 36x60 feet, branch county library (tile roof).
 Owner—Washoe County Library Trustees, Reno, Nevada.
 Architect—E. J. DeLongchamps, Gazette Bldg., Reno, Nevada.
 Contractor—Roush & Belz, 28 Thoma St., Reno, Nevada.
 Complete list of bids follow:
 Roush & Belz, 28 Thoma St., Reno.....\$17,382
 Wine & Williams, Reno.....18,360
 G. A. Probasco, Fallon, Nev.....19,405
 McLeran & Co., S. F.....19,494
 W. J. Boudwin, Reno.....20,239
 C. D. Jameson, Reno.....22,283

WOODLAND, Yolo Co., Cal.—Until July 6, S. P. M., bids will be received by J. H. Laguerre, city clerk, for razing the old city hall building and clearing the site at southwest corner of Court and First Sts. Certified check

10% required with bid. Further information obtainable from clerk.

RESIDENCES

Sub-Bids Being Taken.
RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Cal. South Harvard St. E Ross St.
 Two-story frame and stucco residence (7 rooms); gas heating system, tile roof.
 Owner—J. H. Coupin, 376 60th St., Oakland.
 Architect—A. W. Smith, American Bldg., Oakland.
 Contractor—C. D. Rich, 4627 Fleming Ave., Oakland.

Sub-Bids Wanted.
RESIDENCE Cost, \$7500
OAKLAND, Alameda Co., Cal. West Golden Gate Ave. E Cross Roads.
 One-story and basement frame and stucco residence (7 rooms).
 Owner—Mrs. Nellie Drake, 624 Scenic Ave., Piedmont.
 Architect—E. L. Snyder, 2100 Shattuck Ave., Berkeley.
 Contractor—Beckett & Wight, 722 Scenic Ave., Berkeley.

Plans Complete
RESIDENCES Cost, \$8,000 for one, \$10,000 for the other.
SAN FRANCISCO, Cal. Jefferson St. west of Webster.

Two 2-story and basement, frame and stucco residences (6 rooms) part tile, part composition roof; hot-air, gas heating; tiled baths, kitchen.
 Owner and Builder—Louis Franceschi, 3824 Scott St., S. F.
 Architect—Charles Strothoff, 2274 16th St., S. F.

Owner will take segregated bids immediately.

Additional Sub-Contracts Awarded
BUNGALOW COURT Cost \$55,000
SAN CARLOS, San Mateo Co., Cal. One-story frame and stucco bungalow court.
 Owner—Robert Klassen.
 Architect—Ernest Norberg, 580 Market St., San Francisco.

Contractor—George W. Williams Co., Ltd., 1404 Broadway, Burlingame.
 Sub-bids wanted on electrical wiring and tile work.
Painting—W. G. Thompson, 336 Church St., San Francisco.
Steel Sash—Michel & Pfeffer, Harrison and 10th, S. F.
Roofing—L. M. Smith, Burlingame.
 As previously reported:

Lumber—San Carlos Lumber Co., San Carlos.
Concrete—Gus Adolphson, San Mateo.

Sub-Contracts Awarded
RESIDENCE Cost, \$10,000
BURLINGAME, San Mateo Co., Cal. Two-story and basement frame and stucco residence (7 rooms and 2 baths).
 Owner—David Simpson.
 Architect—E. L. Norberg, 580 Market St., San Francisco.
 Contractor—G. W. Williams Co., Ltd., Crawford Bldg., Burlingame.
Plumbing—Cahalan Co., Bayswater & R. R. Aves., Burlingame.
Concrete—Gus Adolphson, San Mateo.
Painting—W. G. Thompson, 336 Church St., San Francisco.
Sheet Metal—Gaffigan Sheet Metal Works, San Mateo.

Contract Awarded—Sub-bids Wanted.
RESIDENCE Cost, \$7500
SAN RAFAEL, Marin Co., Cal. Two-story and basement frame and stucco residence (six rooms, part tile roof, tile baths, gas and hot air heating).
 Owners—Mr. and Mrs. Campion, 850 4th St., San Rafael.
 Architect—Charles Strothoff, 2274 15th St., San Francisco.
 Contractor—M. Vanderbilt, 115 H St., San Rafael.

Completing Working Drawings.
RESIDENCE Cost, \$10,000
SONORA, Tuolumne Co., Cal. Two-story and basement frame and stucco residence (Spanish style; 8 rooms, 2 baths; hot air heating, hardwood floors, tile roof, ornamental iron, tile baths).
 Owner—W. L. Price, Sonora.
 Architect—G. N. Hilburn, Elks Bldg., Modesto.

Owner will take segregated bids immediately.

Taking Segregated Figures.
COTTAGES Cost each, \$500
SAN JOSE, Santa Clara County, Cal. Cherryhurst Tract.
 Twelve 1-story frame and stucco cottages (Spanish style).
 Owner—Thos. A. Henschbach, Cherryhurst Tract, San Jose.
 Architect—Withheld.

Owner beginning work on first houses. Taking segregated figures for others.

Being Done By Day's Work By Owner.
DWELLINGS Cost, \$10,500
SAN FRANCISCO. N Niagara 249 E Delano.
 Three one-story and basement frame dwellings.

ORNAMENTAL WIRE AND IRON WORK

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Sub-Contracts Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal.
Two-story and basement frame and stucco residence (9 rooms and 3 baths); shingle roof, brick work, steel sash (gas hot air heating system).

Owner—Dwight Baldwin.
Architect—Ray Keefe and A. Herberger, 3281 Lakeshore Blvd., Oakland and 369 Pine St., San Francisco.

Contractor—C. Dudley De Veliss.
Steel Sash—Michel & Pfeffer Iron Works, 1415 Harrison St., E. R.
Excavating—Roy McArthur.

Owner Taking Bids.
RESIDENCE Cost, \$5500
MILL VALLEY, Marin Co., Cal.
One-story and basement frame and stucco residence (4 five rooms, tile roof, gas furnace, tile baths).
Owner—Mrs. J. Benjamin.
Architect—Walter Falch, Hearst Bldg. San Francisco.

Contract Awarded.
RESIDENCE Cost, \$8500
OAKLAND, Alameda Co., Cal. Municipal District.
Two-story and basement frame and stucco residence (6 rooms and 2 baths; gas hot air heat, tile roof, electric refrigerator).
Owner—Chas. E. Gillean, 2629 Dwight Way, Berkeley.
Plans by A. L. Herberger, 770 Wesley Ave., Oakland.
Contractor—Leo Dolan, 316 17th St. Oakland.

Contract Awarded.
RESIDENCE Cost, \$18,000
SAN FRANCISCO. Marina District.
Two-story and basement frame and stucco residence (9 rooms and 4 baths).
Owner—Withheld.
Architect—Charles Strothoff, 2274 15th Street.
Contractor—Young & Horstmeier, 461 Market Street.

Contract Awarded.
RESIDENCE Cost, \$25,000
SAN FRANCISCO. Marina District.
Two-story and basement frame and stucco residence (9 rooms and 4 baths).
Owner—Withheld.
Architect—Charles Strothoff, 2274 15th Street.
Contractor—Young & Horstmeier, 461 Market Street.

Bids Wanted.
RESIDENCE Cost, \$5500
KENTFIELD, Marin Co., Cal.
One-story and basement frame and stucco residence (5 rooms, tile roof, gas furnace, tile baths).
Owner—Ernest Bowser.
Architect—Walter Falch, Hearst Bldg., San Francisco.

Plans Complete.
DWELLING Cost, \$18,000
OAKLAND, Alameda Co., Calif. NE
Lincolnshire and Glenbrook Drive.
Two-story 10-room frame and stucco dwelling.
Owner—Roy C. Hackley, 2514 Buena Vista Ave., Berkeley.
Architect—Masten & Hurd, 278 Post St., San Francisco.

Bids Opened—Held Under Advice
RESIDENCE Cost, \$10,000
PALO ALTO, Santa Clara Co., Calif. Stanford Campus.
Two-story and basement frame and stucco residence (Spanish style, tile roof, hot air heat, tile baths).
Owner—George Culver, Stanford University Ave., Palo Alto.

Architect—Birge M. Clark, 310 University Ave., Palo Alto.
Low bidder will be announced today.

Owner Taking Segregated Bids.
RESIDENCE Cost, \$18,000
PALO ALTO, Santa Clara Co., Calif. Cowper Street.

Two-story and basement frame and stucco residence (Italian architecture, iron work, hardwood floors, 3 tile baths, tile roof, gas hot air heating).

Owner—Cleveland Smith, President Hotel, Palo Alto.
Architect—Treichel and Goodpaster, 1540 San Pablo Ave., Oakland.

Being Done By Day's Work.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. Brentwood and Maywood Drive.

Two-story and basement frame and stucco residence.
Owner—D. K. Brookes, 346 Faxon Avenue
Plans by Owner.

Taking Bids
RESIDENCE Cost, \$16,000
BERKELEY, Alameda Co. Cal. Stonewall Road.

Two-story and basement frame and stucco residence.
Owner—Miss Winifred Lee, San Francisco.
Architect—Irwin M. Johnson, 2215 7th Ave., Oakland.

SCHOOLS

NEWMAN, Stanislaus Co., Cal. Until July 7, 7:30 P. M., bids will be received by Crestimba Union High more or less new lockers. Specification School District to furnish 245 sq. yds. linoleum; 30 tons stove size coal; 200 tons on file at office of Principal at Newman. F. T. McGinnis, Clerk of Board, Crows Landing, Cal.

Bids Opened, Held Under Advice
ADDITION Cost, \$—
DURHAM, Butte Co., Cal. Auditorium addition for high school.
Owner—Durham Union High School District, Beecher H. Harris, clerk, Durham.
Architect—Chester Cole, 303 First National Bank Bldg., Chico.
Low Bidder—Merrick Evans, 1705 Oleander St., Chico, \$12,377.
Other bids received were:
Wm. J. Shalz, 3445 Woodland Ave., Chico \$12,645
Brown & Pearl, Durham 13,616
Harry Porter, Chico 13,989

MODESTO, Stanislaus Co., Calif.—Until July 8, 2 P. M., bids will be received by Modesto High School District for the installation of a vacuum

pump and oil burner as replacements to the central heating plant and also extending steam heat to the Agricultural and Music Buildings and bus shed office. Certified check of 10% required with bid. Plans obtainable from above or Architects Davis-Pearce Co., Stockton.

Bids Opened; Contract to be Awarded \$110,000 Bldg. Cost, \$13,000
SANTA ROSA, Sonoma Co., Cal. Brick addition for high school shop (110-64-ft.; housing auto mechanics department and general repair shop).

Owner—Santa Rosa High School Dist. Architect—Wm. Herbert, Kosenberg Bldg., Santa Rosa.

Low Bidder—Ralph McLeran and Co., Hearst Bldg., S. F. \$12,321
Complete list of bids received is as follows:

Ralph McLeran & Co., S. F.	\$12,321
William Spirook, S. F.	12,869
Carl Nelson, Stockton	12,890
J. B. Peterson, Santa Rosa	13,339
Wm. Proctor, Santa Rosa	13,575
Petulum Constr. Co., Petuma	13,814
W. J. Meeker, Santa Rosa	13,997
J. Dawson, Sebastopol	14,783
Leibert & Trobeck, S. F.	14,855

Bids Wanted—To Close July 8, 2 P. M. ALBERTA TIONS \$11,000
MODESTO, Stanislaus Co., Cal.

Alterations and additions to one-story and basement brick school (Washington School) add two classrooms
Owner—Modesto Grammar School District.

Architect—Davis-Pearce Co., 47 North Grant St., Stockton.
Certified check of 10% required with bid.

Preparing Preliminary Plans.
ADDITION Cost, \$40,000
SAN ANSELMO, Marin Co., Cal. One-story frame building metal laths, auditorium to seat 625, lunch room, kindergarten classroom.
Owner—San Anselmo School District.
Architect—A. A. Cantin, 544 Market St., San Francisco.

Contract To Be Awarded.
FLASTERING Cost, \$—
SAN MATEO, San Mateo Co., Cal. Complete plastering in high school gymnasium.
Owner—San Mateo Union High School District, John D. Bromfield, clerk of district.

Architect—E. L. Norberg, 407 Occidental Ave., Burlingame, and 580 Market St., San Francisco.
Low Bidder—J. E. Cooksey, 702 South Humboldt, San Mateo, \$415.

A complete list of bids follows:
J. E. Cooksey, San Mateo \$415
A. W. Cordes, San Francisco 496
Geo. Leeth, San Mateo 615
J. W. Hampton, Burlingame 625
S. McCartney, Burlingame 927

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Additional Sub-Contracts Awarded.
 ST. JOSE Cost, \$25,000
 OAKLAND, Alameda Co., Cal. Broadway.
 One-story and basement class C steel frame, concrete and hollow tile department store.
 Owner—Isadore Weinstein, 1041 Market St., San Francisco.
 Architect—Wm. Knowles, 1214 Webster St., Oakland.
 Contractor—Jacks and Irvine, 74 New Montgomery St., San Francisco.
 Ornamental Iron—Zouri Co., 1208 Howard St., San Francisco.
 Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Bids Opened-Contract To Be Awarded ADDITION Cost, \$7500
 SALLINAS, Monterey Co., Cal.
 Frame addition to school (add 1 classroom, toilets, etc.)
 Owner—El Sausal Grammar School District.
 Architect—Charles E. Butner, 22 Glikburg Bldg., Salinas.
 Low Bidder—M. J. Murphy, Carmel, at \$6600.
 Complete list of bids follows:
 M. J. Murphy, Carmel.....\$6600
 S. Thadjen, Salinas.....7254
 R. Pedersen, Salinas.....7320
 Fred Carlson, Salinas.....7780
 J. H. Graham, Monterey.....7790
 W. E. Brien, Salinas.....7847
 J. S. Boyd, Carmel.....7886

Sub-Contracts Awarded.
 GYMNASIUM Cost, \$25,000
 OROVILLE, Butte Co., Cal.
 One-story steel frame and reinforced concrete gymnasium.
 Owner—Oroville Union High School District.
 Architect—N. W. Sexton, deYoung Bldg., San Francisco.
 Contractor—Frank H. Cress, 828 Excelsior Ave., Oakland.
 Reinforcing Steel—Truscon Steel Co., 70 Ricard St., San Francisco.
 Structural Steel—Schrader Iron Works, 1247 Harrison St., San Francisco.
 Millwork—E. H. T. Anderson, Mills Bldg., San Francisco.
 Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.

To Take Bids June 25—Close July 1.
 SCHOOL Cost, \$37,000
 BERKELEY, Alameda Co., Cal. Milvia St., bet. Berryman and Eunice Streets.

One-story and basement (four-classrooms) grammar school for Saint Mary Magdalene Parish (fireproof, reinforced concrete).
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
 Architect—Arnold Constable, 580 Market St., San Francisco.

Bids will be opened about July 1.

BERKELEY, Alameda County, Cal.—Until July 6, 8 P. M. bids will be received by C. F. Andrews, secretary, Berkeley High School District to furnish electrical supplies and six hundred (600) steel folding chairs. Specifications and further information available from above.

Bids Opened
 ADDITION Cost, \$.....
 LAKEPORT, Lake Co., Cal.
 Two-classroom addition to school.
 Owner—Lakeport Union School District, Inez M. Anton, Clerk, Lakeport.
 Architect—Not given.
 Low Bidder—A. V. Lightford, Willits, at \$4,850.

Contract will be awarded to low bidder in a few days.
 List of bids received follows:
 A. V. Lightford, Willits.....\$4630
 Wiley P. Vaughn, Oakland.....4850

Petaluma Constr. Co., Petaluma 4900
 Frank R. Phillips, Lakeport..... 4996

Taking Bids.
 COLLEGE Cost, \$110,000
 ONTARIO, San Bernardino Co., Cal.
 Second unit of Junior College.
 Owner—Chaffee Union High School District, Ontario.
 Architect—Allison & Allison, 1005 California Reserve Bldg., Los Angeles

To Open Bids June 29.
 ART BLDG. Cost, \$5000
 SAN FRANCISCO, Potrero Ave. and Seventeenth St.
 Art building on roof of school (fireproof structure, 25x80 feet, steel frame, hollow tile walls, composition roof, trusses, ceiling beams, cabinets, hardwood finish).
 Owner—Lux School of Industrial Training, Geo. A. Merrill, director
 Architect—W. S. Hays, 1235 First National Bank Bldg., S. F.
 Bids are to be in June 26 and to be opened June 29.

Plans Being Figured—Bids Close July 6, 6:30 P. M.
 SCHOOL Cost, \$8000
 WOODFORDS, Alpine Co., Cal.
 One-story school.
 Owner—Lincoln School District, Mrs. E. Danzberg, Clerk.
 Architect—Chas. F. Dean, 1406 California State Liff Bldg., Sacramento.
 Certified check 10% payable to clerk required with bid. Plans obtainable from architect on deposit of \$15, returnable.

Bonds Voted—Plans Being Prepared.
 SCHOOL Cost, \$18,000
 LATON, Fresno Co., Cal.
 One-story frame and stucco high school unit.
 Owner—Laton Joint Union High School District.
 Architect—W. D. Coates Jr., Rowell Bldg., Fresno.
 Structure will house administration rooms, including principal's office and supply rooms in addition to two classrooms.

Sub-Contracts Awarded.
 ADDITION Cont. Price, \$18,680
 CASTROVILLE, Monterey Co., Cal.
 One-story reinforced concrete school
 Owner—Castroville Union Grammar School District.
 Architect—W. H. Weeks, 525 Market St., San Francisco.
 Contractor—M. M. Meyer, Cupertino.
 Concrete Work—General Contractor.
 Plumbing—Peck Plumbing & Sheet Metal Works, Watsonville.
 Millwork—Hubbard & Carmichael Bros., San Jose.
 Lumber—Tynan Lumber Co., Salinas.
 Reinforcing Steel—Concrete Engineering Co., 1250 Indiana St., San Francisco.
 Iron Work—R. Hellwig Iron Works, San Jose.
 Wiring—Roy Butcher, San Jose.
 Painting—George Cahill, San Jose.
 Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.
 Tile—Thomas H. Price Co., San Jose.
 Blackboards—Rucker-Fuller Co., 539 Market St., San Francisco.
 Contracts not yet let on roofing, plastering, shades and linoleum.

Plans Being Figured—Bids Close July 15th.
 SCHOOL Cost, \$85,000
 ST. HELENA, Napa Co., Cal.
 One-story reinforced concrete grammar school and auditorium (eight classrooms and auditorium).
 Owner—St. Helena Grammar School District.
 Architect—Wolfe and Higgins, Realty Bldg., San Jose.

Bids Rejected.
 ADDITION Cost, \$——
 DURHAM, Hester Co., Cal.
 Auditorium addition for high school.
 Owner—Durham Union High School District, Beecher H. Harris, clerk, Durham.
 Architect—Chester Cole, 303 1st National Bank Bldg., Chico.
 Low Bidder—Merick Evans, 1705 Oleander St., Chico, \$12,377.
 Bids were rejected because of insufficient funds.

Plans Being Re-figured—Close June 29.
 SCHOOL Cost, \$75,000
 CARMEL, Monterey Co., Cal.
 One-story frame and stucco grammar school.
 Owner—Sunset School District.
 Architect—Swartz & Ryland, Spazier Bldg., Monterey.
 Trustees of the district are: Frederick Bigland, Hester Hall Schoeninger and Clara N. Kellogg.
 Segregated bids being taken.

To Take Bids July 1.
 LIBRARY Cost, \$117,000
 CHICO, Butte Co., Cal. State Teachers' College.
 One- and two-room library and classroom building (20,000 sq. ft.)
 Owner—State of California.
 Architect—Chester Cole, First National Bank Bldg., Chico.
 Brick construction, concrete floors, concrete pile foundation, terra cotta tile roof.

Contract Awarded.
 ADDITION Cost, \$6656
 SALLINAS, Monterey Co., Cal.
 Frame addition to school (add 1 classroom, toilets, etc.)
 Owner—El Sausal Grammar School District.
 Architect—Charles E. Butner, 22 Glikburg Bldg., Salinas.
 Contractor—M. J. Murphy, Carmel.

Completing Preliminary Plans.
 SCIENCE BLDG. Cost, \$100,000
 SAN FRANCISCO, State Teachers' College (124 Buchanan St.)
 Three-story reinforced concrete Class B science and chemistry building (classrooms, lecture auditorium to seat 200, chemistry laboratories, and supply rooms).
 Owner—State of California.
 Architect—S. Heiman, 605 Market St., San Francisco.

Plans To Be Prepared.
 SCHOOL UNITS Cost, \$——
 SANTA ROSA, Sonoma Co., Cal.
 Temporary dressing rooms and showers for gymnasium students.
 Owner—Santa Rosa Junior College District.
 Architect—Not Determined.
 Funds to finance this work will be provided in the college budget during the coming fiscal-year period.

Plans Being Figured—Bids Close July 7, 10 A. M.
 LUNCH ROOM Cost, \$——
 RICHMOND, Contra Costa Co., Cal.
 One-story frame outdoor lunch room for school unit.
 Owner—Richmond Union High School District, V. T. Helms, Secretary.
 Architect—James T. Narbett, 466 31st St., Richmond.
 Certified check 10% payable to Secretary required with bid. Plans obtainable from architect.

Contract Awarded.
 PLASTERING Contract price, \$415
 SAN MATEO, San Mateo Co., Cal.
 Complete plastering in high school gymnasium.
 Owner—San Mateo Union High School District, John D. Bromfield, clerk.

Architect—E. L. Norberg, 407 Occidental Ave., Burlingame, and 580 Market St., San Francisco.
Contractor—J. E. Cooke, 702 South Humboldt, San Mateo.

Contracts Awarded.

ADDITION Cost, \$10,000
OAKLAND, Alameda Co., Cal. Mills College Campus.

One-story reinforced concrete addition to Art Building.

Owner—Mills College, Seminary and Camden Aves., Oakland.

Architect—W. H. Ratcliff, Jr., Chamber of Commerce Bldg., Berkeley.
Supervisor of Const.—J. Brown, Mills Campus.

Concrete—J. H. Fitzmaurice, 354 Hart St., Oakland.

Reinforcing Steel—Gunn, Carle & Co., 444 Market St., San Francisco.

Ornamental Iron—California Ornamental Iron Co., 835 Eighth Ave., Oakland.

Millwork—Sunset Lbr. Co., 400 High St., Oakland.

Steel Sash—East Bay Glass Co., 621 6th St., Oakland.

Tile Roofing—Sibby Roofing Co., Heating—Schreier Bros., 2945 Elmwood, Oakland.

Electric Wiring—Kerr & Clifford, 3525 E 14th St., Oakland.

Cut Stone—California Cast Stone Co., 1237 Naples St., San Francisco.

Preparing Plans.

GYMNASIUM Cost, \$12,000
TOMALES BAY, Marin Co., Cal.

One-story and basement frame and stucco addition to Tomales High School (auditorium, 45x80, bleachers, stage, cafeteria, kitchen, supply rooms, lecture hall).

Owner—Tomales High School District, Tomales Bay.

Architect—N. W. Sexton, deYoung Bldg., San Francisco.

Taking Sub-Bids.

REMODELING Cost, \$50,000
PALO ALTO, Santa Clara Co., Calif. Stanford Campus.

Remodeling Stanford stadium (replace wooden stairs with concrete; additional toilet facilities).

Owner—Stanford University, Palo Alto Engineer—Shirley Baker, 58 Sutter St., San Francisco.

Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.

Sub-Contracts Awarded.

ADDITION Cont. Price, \$18,888
CLARKSBURG, Yolo Co., Cal.

One-story brick addition to grammar school (add two classrooms).

Owner—Clarksburg Grammar School District.

Architect—Charles Dean, California State Life Bldg., Sacramento.

Contractor—Geo. Hudnut, 1915 S St., Sacramento.

Lumber—Noah Adams Lumber Co., Clarksburg.

Plumbing and Heating—A. W. Sweet, North Sacramento.

Electric Wiring—Rex Moor, Sacramento.

Millwork—Capital City Planing Mill, Sacramento.

Window Fixtures—Universal Window Co., 1916 Broadway, Oakland.

Steel Sash—Palm Iron Works, Sacramento.

Tile Work—H. O. Adams, Sacramento.

Glass & Glazing—W. P. Fuller & Co., Sacramento.

Sheet Metal—McLaughlin Sheet Metal Works, Sacramento.

Reinforcing Steel—Eagle Steel Co., 1750 Army St., San Francisco.

Cement—Santa Cruz Portland Cement Co., Crocker Bldg., S. F.

Miscellaneous Iron—Alling Iron Works, Sacramento.

Concrete Aggregates—Del Paso Rock Products Co., Sacramento.

Plans Being Figured—Bids Close July

7, 5 P. M.
GYMNASIUM (1st unit) Cost, \$20,000
CHICO, Butte Co., Cal.

One-story brick gymnasium (composition roof, steam heating system, showers, lockers, steel sash).

Owner—Chico Union High School District.

Architect—Cole & Brouhard, 1st National Bank Bldg., Chico.

Certified check 5% payable to the Secretary of the Chico High School District required with bid. Plans obtainable from the architects on deposit of 10, returnable.

Completing Plans.

ADDITION Cost, \$30,000
PISMO BEACH, Santa Cruz Co., Cal.

One-story brick addition to grammar school (three classrooms, auditorium to seat 400, gas heating system, composition roof).

Owner—Pismo Grammar School Dist., Pismo Beach.

Architect—Louis M. Crawford, Santa Maria.

Owner expects to advertise for bids by July 1.

Bids Close July 1, 5 P. M.

GYMNASIUM Cost, \$25,000
MORGAN HILL, Santa Clara Co., Cal.

Reconstruct gymnasium.

Owner—Live Oak Union High School District, Morgan Hill.

Architect—J. J. Donovan, 1916 Broadway, Oakland.

Work involves concrete walls and floors, composition roofs, wood frame, steel trusses, exterior plaster, steam heating system from boiler plant in present building, iron railings.

Plans Being Prepared.

SCHOOL Cost, \$9000
MINA, Mineral Co., Nevada.

Elementary school.

Owner—Mina School District.

Architect—Geo. A. Ferris and Son, Cladianos Bldg., Reno.

General Contract Awarded.

ADDITION Cost, \$204,800
SAN FRANCISCO. Scott and O'Farrell Streets.

Two-story and basement brick and steel frame addition to Girls' High School (terra cotta front).

Owner—City and County of San Francisco, S. J. Hester, Sect'y., Board of Public Works.

Architect—F. H. Meyer, 525 Market Street.

Contractor—Mahony Brothers, Flood Building.

Plans Being Figured—Bids Close July 8, 7:30 P. M.

REMODELING Cost, \$—
SPRINGFIELD, Monterey Co., Cal.

Alterations and additions to school.

Owner—Springfield School District, F. W. Gibson, clerk.

Architect—Butner and Stranahan (C. E. Butner), Gilkbiarg Bldg., S. F.

Certified check or bidder's bond 10% payable to clerk required with bid. Plans obtainable from Chas. E. Butner, architect, on deposit of \$5, returnable.

BANKS, STORES & OFFICES

Bids Opened.
STORE Cost, \$10,000
BURLINGAME, San Mateo Co., Cal.

Capuchino St. near Broadway.
One-story reinforced concrete store (2 stories).

Owner—Fradwell & Braunschweiger, Architect—W. C. F. Gillingham, 1404 Broadway, Burlingame.

Const. Supt.—Russell B. Coleman, 1404 Broadway, Burlingame.

Low Bidder—J. W. Moore, 934 Paloma St., San Francisco.

Completing Plans.

DEPOT, ETC. Cost, \$100,000
LAS VEGAS, Nevada.

One- and two-story class C depot and office building (25x50-ft.).

Owner—Union Pacific Railroad Co.
Architect—Gilbert Stanley Underwood, California Reserve Bldg., Los Angeles.

Segregated Bids Being Taken.
MARKET Cost approx. \$75,000
SAN FRANCISCO. S Market St. bet. 4th and 6th Sts.

Remodel store for market.

Owner—Shapiro Bros., 945 Market St.
Architect—Dodge Riedy, Pacific Bldg.

Sub Contracts Awarded

BANK Cost, \$25,000
HOLLISTER, San Benito Co., Cal.

One-story, reinforced concrete bank.
Owner—Bank of America.

Architect—H. A. Minton, 525 Market St., San Francisco.

Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco.

Structural Steel—Schraeder Iron Works, 1247 Harrison, S. F.

Reinforcing Steel—W. C. Hauck & Co., 230 San Bruno, S. F.

Steel Forms—Steel Form Contracting Co., Menadnock Bldg., S. F.

To Ask Bids July 1.

STORE BLDG. Cost, \$150,000
SAN MATEO, San Mateo Co., Cal.

Third Ave. east of Camino Real.
One-story and basement frame and stucco department store (English design) (mezzanine for beauty shop, library, offices; drygoods shop; food shop).

Owner—Levy Bros., San Mateo.

Architect—Hymn & Appleton, 68 Post St., San Francisco.

Plans will be completed this week. Will take bids about July 1.

Taking Segregated Figures.

REMODELING Cost, \$100,000
SAN FRANCISCO. 935 Market St.

Renovate four-story department store (remodel all departments into separate shops, re-decorate dome, modernize front of building).

Owner—The Emporium (J. A. Smith, Supt.), 935 Market St.

Private plans.
Cleaning Building Front—J. H. Mohr & Son, 433 11th St.

Sub-Contracts Awarded.

MARKET Cost, \$30,000
SACRAMENTO, Sacramento Co., Cal.

SW 11th and O Streets.
One-story brick drive-in market (French farmhouse type).

Owner—Charles W. Hoyer, Jr., Mills Bldg., San Francisco.

Architect—Charles F. Dean, California State Life Bldg., Sacramento.

Plumbing—Scott Heating & Plumbing Co., 1900 M St., Sacramento.

Sheet Metal—F. Ahl, 1615 21st Street, Sacramento.

Lumber—San Joaquin Lumber Co., 1209 J St., Sacramento.

Concrete—C. R. Fieldler, 2631 30th St., Sacramento.

Masonry—Redmond Brothers.

Millwork—Burnett & Co., 12th and No. 6 Sts., Sacramento.

Ornamental Iron—Palm Iron Works, 15th and S Sts., Sacramento.

Painting—Willcoxon and Wilson, 908 Redwood St., Sacramento.

Contract Awarded.

REMODELING Cost, \$10,000
FRESNO, Fresno Co., Cal.

Remodel for store; new fronts, etc.

Owner—Fresno Dry Goods Co. Rowell-Chandler Bldg., Fresno.

Plans by Builders.

Contractor—Fisher & McNulty, Fresno

Completing Plans.

STORE Cost, \$10,000
MONTEREY, Monterey Co., Cal.

One-story reinforced concrete store building (3 stores; tile roof).

Owner—Withheld.
 Architect — Guy O. Koepf, Carmel Woods.
 Sub-Contracts Awarded.
 ALTERATIONS Cost, \$35,000
 SAN FRANCISCO, Stockton and O'Farrell Streets.
 Alterations to two-story and mezzanine floor store (class C construction); structural steel in building to be re-used.
 Owner—Imperial Realty Corp.
 Architect—G. Albert Lansburgh, 140 Montgomery Street.
 Contractor—Barrett & Hilp, 918 Harrison Street.
 Roofing—Alta Roofing Co., 976 Indiana Street.
 Ornamental Metal—Sortorius & Co., 2530 18th St.
 Plastering—A. W. Cordes, 666 Mission Street.
 Special Hardware—Condor Co. 58 Sutter Street.

THEATRES

Sub-Contracts Awarded.
 THEATRE Cost, \$500,000
 ALAMEDA, Alameda Co., Cal. North Central Ave., W. Park St.
 Structural steel frame and reinforced concrete theatre (to seat 2200; 126 by 210 feet).
 Owner—Alameda Amusement Co.
 Architect—Miller & Plueger, 550 Market St., San Francisco.
 Contractor—Salih Bros., 25 Taylor St., San Francisco.
 Reinforcing Steel—Soule Steel Co., 1750 Army St., San Francisco.
 Plumbing—C. E. Smith, 3025 Thompson Ave., Alameda.
 As previously announced, structural steel awarded to Golden Gate Iron Works, 1541 Howard St., S. F.; electrical work to Matson-Seabrooke Co., 4115 Broadway, Oakland, at \$11,039.
 Bids Opened.
 THEATRE Cost, \$—
 SAN JOSE, Santa Clara Co., Cal. NE First and San Salvador Sts.
 Two-story class A reinforced concrete theatre and store building.
 Owner—Mrs. Norman M. Parrott and Morey B. Fleming.
 Lessee—United Artists Corp., 1966 S Vermont St., Los Angeles.
 Architect—Walker & Eisen and C. A. Each, 1031 S Broadway, Los Angeles, and 580 Market Street, San Francisco.
 Prospective bidders previously reported (June 5).
 Monolithic concrete exterior finish, steel studs, metal lath and plaster interior partitions; concrete and composition roofing, concrete floors, hot air heating system, gas furnace.
 Following is a complete list of bids:
 J. J. Groden & Co., 1028 San Antonio, Alameda \$72,321
 W. J. Ochs, San Jose 81,397
 Lindgren and Swinerton, Inc., San Francisco 81,600
 Barrett & Hilp, San Francisco 82,900
 Cahill Bros., San Francisco 83,156
 The Minton Co., Mt. View 83,979
 E. Nommensen, San Jose 84,835
 R. O. Summers, San Jose 85,300
 Larsen & Larsen, San Francisco 88,000
 Clinton Stephenson Const. Co., San Francisco 93,752
 Beller Const. Co., S. F. 97,500
 Neves & Hart, San Jose 97,715

Heating and Ventilating
 Aladdin Heating Corp., 5107 Broadway, Oakland \$6,270
 A. M. G. M. Schuster, Oakland 7,017
 A. J. Peters, San Jose 8,224
 Merritt & Sons 8,276
 Wm. Serpa, San Jose 9,300
 Electrical Work
 Gilbert Bros., 286 W Santa Clara St., San Jose \$5,515
 R. M. Butcher, San Jose 5,785
 Coast Electric Company 5,875
 Bids held under advisement.

Heating Contract Awarded
 THEATRE Cost, \$500,000
 ALAMEDA, Alameda Co., Cal., North Central Ave., W. Park St.
 Structural Steel frame and reinforced concrete theatre (to seat 2200; 126 by 210 feet).
 Owner—Alameda Amusement Co.
 Architect—Miller & Plueger, 550 Market St., San Francisco.
 Contractor—Salih Bros., 25 Taylor St., San Francisco.
 Heating and Ventilating—O'Mara & Stewart, 218 Clara St., S. F.
 As previously announced, structural steel awarded to Golden Gate Iron Works, 1541 Howard St., S. F.; electrical work to Matson-Seabrooke Co., 4115 Broadway, Oakland, at \$11,039.
 Reinforcing Steel—Soule Steel Co., 1750 Army St., San Francisco.
 Plumbing—C. E. Smith, 3025 Thompson Ave., Alameda.

Sub-Bids Wanted.
 THEATRE Cost, \$400,000
 STOCKTON, San Joaquin Co., Calif. Main Street bet. Market and Stanislaus Sts.
 Two-story class A theatre.
 Owner—National Theatres Syndicate, 25 Taylor St., San Francisco.
 Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.
 Hamilton Const. Co., Hearst Bldg., San Francisco, are bidding on the job and would like sub-bids.
 All prospective bidders reported June 16.

Sub-Contracts Awarded.
 ALTERATIONS Cost, \$50,000
 OAKLAND, Alameda Co., Calif. 445 23rd Avenue.
 Alterations to class C steel frame and concrete theatre (wood joists).
 Owner—Golden State Theatre & Realty Co., 25 Taylor St., San Francisco.
 Architect—Reid Bros., 105 Montgomery St., San Francisco.
 Contractor—Alfred J. Hopper, 1769 Pleasant Valley Road, Piedmont.
 Plastering, (plain and ornamental)—Vincent Patta, 2247 Filbert St., Oakland.
 Plumbing—Walter Grey, 3734½ East 14th St., Oakland.
 Steel Toilet Partitions—Albatross Steel Furniture Co., 327 17th St., Oakland.
 Concrete Materials—Makin & Kennedy, 101 4th St., Oakland.
 Steel Sash—Truscon Steel Co., Call Bldg., San Francisco.
 As previously reported, structural steel awarded to Schradre Iron Works 127 Harrison St., San Francisco; mill work to Petersen Mill, Watsonville.

WHARVES AND DOCKS

Plans Approved; To Ask Bids in a Few Days.
 BULKHEAD BLDG. Cost, \$50,000
 SAN FRANCISCO, Head of Pier 39.
 Steel frame stucco front bulkhead building (tar and gravel roof).
 Owner—State of California (Harbor Commission).
 Engineer—Frank G. White, chief engineer, Ferry Bldg.
 Expect to ask bids about June 22-23.
 Prospective Bidders, Bids Close July 1st.
 RECREATION PIER Cost, \$—
 SAN FRANCISCO, Foot of Van Ness Ave., Aquatic Park.
 400 foot pier (first unit of 900 ft. pier 60 ft. wide, hollow concrete piles, iron railings).
 Owner—City of San Francisco (Park Commission), Park Lodge, Golden Gate Park, San Francisco.

Plans Approved—To Ask Bids in a Few Days.
 PIER EXTENSION Cost, \$100,000
 SAN FRANCISCO, Pier No. 48.
 Extension to pier (concrete piles; concrete deck; track aprons of creosoted lumber; steel frame shed; concrete walls; flat wood roof).
 Owner—State of California (Harbor Commission).
 Engineer—Frank G. White, chief engineer, Ferry Bldg.
 Expect to ask bids about June 22 or 23.

MISCELLANEOUS CONSTRUCTION

BERKELEY, Alameda Co., Plans for a \$200,000 golf course and clubhouse have been announced by the Ingleside Public Golf Course Corporation, of San Francisco, of which Tom S. Hutton of Berkeley, is president. The Ingleside Corporation expect to complete negotiations shortly for a 95-acre tract of land on the Acacia Park site in El Cerrito, to be purchased from Ira H. Sorrick, John Morison and M. S. de Albergaria for approximately \$150,000. Erection of a clubhouse, and development of an 18-hole course, will represent another \$50,000 investment.

LOS ANGELES, Los Angeles Co.—Until 9:30 A. M., July 8, new bids will be received by the Los Angeles Board of Education, Chamber of Commerce Bldg., for swimming pool and bleachers at Los Angeles High School site, 4000 Olympic Blvd. Bids will be taken separately on the following items: (1) general contract; (2) plumbing; (3) painting; (4) heating and ventilating; (5) electric wiring. Plans are on file in the office of the secretary of the Board, room 761 Chamber of Commerce Bldg. Will be 95x105 feet in area and contain tile pool, 60x75 feet, brick and steel frame construction, composition roofing, steel sash, cement floors, wire glass, chlorination and filtration system, etc. Bleachers will be reinforced concrete with seating capacity of 5500 and will have lavatory facilities underneath. Plans by Architects John C. Austin and Frederick M. Ashley, 608 Chamber of Commerce Bldg. Plans for mechanical equipment prepared by Elliott Lee Ellingwood.

Preparing Plans
 REMODEL Cost, \$15,000
 FRESNO, Fresno County, Cal.
 Two-story frame residence for mortuary and chapel construction of large garage.
 Owner—John B. Lisle, Van Ness Avenue and Amador, Fresno.
 Architect—Private plans.

June 23, 1931
 Contract Awarded.
 REMODELING Cost, \$50,000
 PALO ALTO, Santa Clara Co., Calif. Stanford Campus.
 Remodeling Stanford stadium (replace wooden stairs with concrete; additional toilet facilities).
 Owner—Stanford University, Palo Alto Engineer—Shirley Baker, 58 Sutter St., San Francisco.
 Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.
 Next low bid submitted by George Wagner, San Francisco. Amounts not announced.

Preparing Preliminary Plans.
 MAUSOLEUM Cost, \$50,000
 TAFT, Kern Co., Cal.
 Reinforced concrete mausoleum 114x36 ft. contain 500 crypts.
 Owner—Withheld.
 Architect—Clarence N. Aldrich, 714 Pacific Southwest Bank Bldg., Long Beach.

Bids Opened-Contract To Be Awarded RECREATION BLDG. Cost, \$14,960 BERKELEY, Alameda Co., Cal. James Kenney Playground, 8th and Delaware.

One-story and basement frame and stucco recreation bldg. (U-shaped with lockers and showers in each wing and auditorium in center).

Owner—City of Berkeley. Architect—James W. Placbeck, Mercantile Bank Bldg., Berkeley.

Low Bidder—R. C. McBride, Jr., 2326 LeConte St., Berkeley.

Work involves part the roof, part tar and gravel, small stage, exposed rafters, folding doors, gas fired steam. Complete list of bids follows:

Complete list of bids follows:
R. C. McBride, Jr., Berkeley.....\$14,357
S. O. MacDonald & Son, Berkeley.....

.....	14,400
John E. Branagh, Piedmont.....	14,472
Niles W. Place, Oakland.....	14,950
N. Norgrove, Berkeley.....	15,000
Emil Persons, Berkeley.....	15,392
Wiley T. Vaughn, Oakland.....	15,777
Connor & Connor, Berkeley.....	16,050
G. J. Scott, Oakland.....	16,061
Sullivan & Sullivan, Oakland.....	16,497
Chas. H. McCulloch, Berkeley.....	16,995
J. B. Peterson, Berkeley.....	17,260

BAKERSFIELD, Kern Co., Calif.—County supervisors plan the purchase of 1,000 acres of land for an elk reserve. After purchase the entire area will be enclosed with an "elk-proof" fence.

SAN DIEGO, Cal.—Construction of a \$175,000 garbage disposal plant is included in the proposal recently made to the city of San Diego for handling all the refuse of the city. The proposal came from Edwin Carrawe and associates in Los Angeles. No decision has yet been made by San Diego City Officials.

WATSONVILLE, Santa Cruz Co., Cal.—City council contemplates erection of a Neon sign on the Watsonville-Santa Cruz Highway at the city limits.

Plans Complete.
CAT & DOG HOSPITAL Cost, \$25,000
SAN MATEO, San Mateo Co., Cal.
Two-story frame and stucco cat and dog hospital, double garage separate (concrete floors, iron work, composition roof, steel sash, hot water heating).

Owner—Dr. Harold H. Groth, 2600 S. El Camino Real, San Mateo.
Architect—Treichel and Goodpastor, 1540 San Pablo Ave., Oakland.
Specifications will be ready for bids the first of next week.

STOCKTON, San Joaquin Co., Cal.—Until June 29, bids will be received by B. L. Trahern, city clerk, to construct new grandstand at Oak Park to replace that destroyed by fire. Will have seating capacity of 2,750. Plans on file in office of clerk.

MISCELLANEOUS SUPPLIES AND MATERIALS

OAKLAND, Cal.—City council has rejected bids to furnish the following materials or equipment during the fiscal year 1931-1932 and the same will be purchased in the open market: Fire hose; storage of, and making compression tests on, Portland cement concrete cylinders; mixed concrete; kerosene.

SAN FRANCISCO—Until July 6, 3 P. M., under Proposal No. 738, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish:
5,000 cubic yards of red rock screenings and

10,000 cubic yards (more or less) of clay.
Above material for use of City Park Commission. Specifications obtainable from above office.

BERKELEY, Alameda County, Cal.—Until July 6, 8 P. M. bids will be received by C. F. Andrews, secretary, Berkeley High School District to furnish:

69 Underwood Typewriters or equal;
43 Royal Typewriters or equal;
38 L. C. Smith Typewriters or equal;
6 Remington Typewriters or equal.

Certified check of 10% required with bid. Specifications and further information available from above.

SAN JOSE, Santa Clara Co., Cal.—City council takes under advisement for one week the following bids to furnish radio equipment, as follows:

(a) One 100-watt police alarm broadcast transmitter (RCA - ET - 3670 or equal).

(b) Ten (more or less) police communication receivers:

R. C. A. Victor Co., Inc., one 100-watt police alarm broadcast transmitter, #2956; 10 receivers, less tubes, \$111.50 each.

Ralph Berggren, (Berggren Electric Service); Receivers only, \$110 in lots of eight or more, \$115 for single receivers. Less tubes, deduct, \$5; less B batteries, deduct \$7. Installation cost, \$10 set.

Gray-Electrics Co.; Transmitter, \$5,800; receivers, \$92.50 each.
Electric Lighting Supply Co.; transmitter, \$4800; receivers, \$103.25 each.

It is estimated that the city will require at least 10 receivers to equip its auto patrols and cars operated by the chief of police and chief of the fire department.

SAN FRANCISCO—Bodie Gravel Co., Golden Gate Atlas Materials Co., and Ready Mixed Concrete Co., both of San Francisco, at \$8.00 cu. yd., submitted identical bids to the City Purchasing Agent, under Proposal No. 729, to furnish approximately 700 cu. yds. of ready mixed concrete. Taken under advisement.

OAKLAND, Calif.—City council has awarded contracts as follows to furnish and deliver miscellaneous supplies and equipment during the fiscal year 1931-1932:

Gasoline, engine distillate and Ethyl gasoline, to Union Oil Co., 1934 Broadway, Oakland.

Fuel oil to Associated Oil Co., 2395 Webster St., Alameda.

Dry concrete mix to Hutchinson Co., 1450 Harrison St., Oakland.

Corrugated iron culverts to California Corrugated Culvert Co., Fifth and Parker Sts., Berkeley.

Emulsified oil and asphalt to American Bitumuls Co., 860 45th Ave., Oakland.

The American Standards Association has announced the appointment of H. M. Lawrence, mining engineer, and S. W. Benham as assistant engineer on the staff of the association. Mr. Lawrence will have supervision of all the mining, chemical and ferrous and non-ferrous metallurgy projects being developed under the procedure of A.S.A. Benham will assist in the supervision of civil engineering and transportation projects. Mr. Lawrence comes to the American Standards Association from the International Agricultural Corporation, where he was engaged as mining engineer. From 1924 to 1930 Mr. Lawrence was connected with the U. S. Bureau of Mines as metallurgist. Mr. Benham was connected with the Portland Cement Association and the Johns-Manville Corporation.

The importance of careful inspection of materials purchased on specification is pointed out by the Electrical World in a recent editorial. The inclusion of specifications in some purchase orders, the writer of the editorial asserts, is merely a part of a ritual and has little justification since no basis for inspection is provided.

"Of course," the editorial says, "if material or equipment that is bought on specification should go 'haywire' during operation, from inherent fault, then the buyer may recover from the seller. But the buyer must be proved to be innocent, not one caused since the purchase. That is none too easy if the purchase was made several years before. Furthermore, a fault disclosed by operation usually does damage in bringing itself to discovery, and although there may be recovery for the fault itself, it will be extremely difficult to collect for the damage it caused. It is much better to find the fault before it has a chance to advertise, perhaps violently, its presence in operation.

"The only way to ascertain whether goods purchased are in conformity with the specifications is to inspect them and find out. The time to inspect them is before the bill is paid. Inspection of purchases must be a regular organized function in charge of responsible men. Only in this way can purchase by specification be more than a futile gesture, a vestigial habit."

Otis Angier, who has been western manager of the Angier Corporation, with headquarters in Los Angeles, has been called back to the factory at Farmingham, Mass., to assume the general management of the corporation. Mark Enfield will be in charge of the territory. E. K. Wood Lumber Co. are the distributors of cement products in California, Arizona and Nevada.

City Mill & Lumber Company of Santa Barbara, Ltd., has filed articles of incorporation with the Secretary of State. The company is capitalized for \$50,000. Directors are E. E. Wheatley, Maxwell Nichols, Ernest N. Carter, Elizabeth Williams and John C. Canfield.

Cambidge-Wheatley Co., Inc., the manufacturers, formerly operating as the Rossman Corporation of California, announces the removal of offices and show rooms from 49 Geary street to 1155 Harrison street. E. L. Bradley is division manager for the company.

The Cement Contractors' Association of Southern California is considering the adoption of a standard, scientific, workable specification for cement-topping, both with sand and with pea gravel. A standard bid form for concrete work is also under consideration and will be worked with the cooperation of Portland Cement Association.

Contracts for \$88,540,234 worth of public and semi-public construction were awarded last week. It is announced by the President's Emergency Employment Committee. This brings contracts for public projects since December 1 to \$1,769,355,499.

A. W. Copley of San Francisco was elected vice-president of the American Institute of Electrical Engineers at the Institute's summer convention in Asheville, N. C., last Monday. Charles E. Seimner of East Pittsburgh, Pa., was elected president. H. V. Carpenter of Fullman, Wash., was elected a director.

Engineering News Section

BRIDGES

VENTURA COUNTY, Calif.—Until July 15, 2 P. M. bids will be received by State Highway Commission to construct undergrade crossing under tracks of Southern Pacific Railroad about 1/2 mile west of El Rio (VII-VIII-60-B) consisting of two concrete abutments with wing walls, installing drainage system and pumping equipment and grading and paving approximately thirty-three hundredths (0.33) of a mile of roadway with Portland cement concrete and bituminous macadam.

MADERA COUNTY, Calif.—As previously reported bids will be received July 15, 2 p. m. by State Highway Commission to construct a steel stringer bridge with concrete deck across Fresno River at Madera (VI-Mad-4-D) consisting of ten 41'-0" spans and two 40'-9" spans on steel pile bents.

Quantities involved are:

- (1) 185 cu. yds. structure excavations;
- (2) 3220 lin. ft. furnishing steel piles, including test piles;
- (3) 91 each, driving steel piles, including test piles;
- (4) 610 cu. yds. class A Portland cement concrete;
- (5) 95,000 lbs. reinforcing steel;
- (6) 482,000 lbs. structural steel;
- (7) 850 lbs. bronze expansion plates;
- (8) 1050 lin. ft. timber railing;
- (9) 1 lot miscellaneous items of work.

MARIN AND SONOMA COUNTIES, Calif.—As previously reported bids will be received by State Highway Commission on July 15, 2 p. m. for repairs to a bridge across Petaluma Creek at Green Point (IV-Mr & Son-5-A) consisting of replacing the floor on the bascule span and making repairs, replacements and additions to operating equipment. Quantities involved are:

- (1) 1 only, existing timber floor of bascule span to be removed;
- (2) 12 cu. yds. concrete in existing structure to be removed;
- (3) 25 cu. yds. class A Portland cement concrete (placed by tremie);
- (4) 32 cu. yds. class A Portland cement concrete (structure);
- (5) 2200 lbs. reinforcing steel;
- (6) 11,500 lbs. structural steel;
- (7) 2750 lbs. cast steel;
- (8) 3 M ft. board measure Douglas fir timber, structural grade;
- (9) 28 M ft. board measure redwood timber, dense select all-heart structural grade;
- (10) 400 sq. yds. asphalt plank;
- (11) 1 lot repairs, replacements, and additions to operating equipment;
- (12) 1 lot miscellaneous items of work.

MARTINEZ, Contra Costa Co., Cal.—Definite action on a proposal for construction of a reservoir for water shortage will be taken by the City Council the latter part of July. The new construction will require a suction line from the pump house to the California Water Service corporation meter, an outlet pipe and 200 feet of 12 inch line to a Main street connection.

MONTEREY COUNTY, Cal.—G. J. Ulrich Const. Co., Modesto, at \$33,705 submitted low bid to State Highway Commission June 24 to construct a reinforced concrete bridge across Granite Creek about 14 miles south

of Monterey, consisting of one 127-ft. open spandrel arch span, two girder spans, each approximately 44 ft. long and two girder spans, each approximately 26 ft. long. Following is a complete list of bids:

Ulrich Const. Co., Modesto.....	\$32,705
Outleben Bros., Oakland.....	35,146
Hanrahan Co., San Francisco.....	35,308
Oberg Bros., Los Angeles.....	35,970
Fred J. Maurer & Son, Eureka.....	39,677
Bodenhamer Const. Co., Oak-	
land	40,173
Rocca & Caletti, San Rafael.....	40,587
M. D. McGowan, San Francisco 40,446	
R. B. McKenzie, Red Bluff.....	42,900

RIVERSIDE COUNTY, Cal.—Eyers & Dunn, 7908 Santa Monica Blvd., Los Angeles, at \$105,865 submitted low bid June 24 to State Highway Commission to widen the existing multiple span arch bridge across the Santa Ana River near Riverside, by constructing alongside existing bridge a multiple span reinforced concrete arch bridge consisting of two 95 ft. spans, two 102 ft. spans and one 106 ft. span on concrete piles and abutments with pile foundations. Following is complete list of bids:

Eyers & Dunn, Los Angeles.....	\$105,865
Matich Bros., Elsinore.....	116,096
Oberg Bros., Los Angeles.....	116,683
Bodenhamer Const. Co., Oak-	
land	120,320
Owl Truck Co., Compton.....	125,347
Robinson-Roberts Co., L. A.....	125,603
Lynch-Cannon Eng. Co., L. A.....	128,649
Merritt, Chapman & Scott San	
Pedro	134,031
R. H. Travers, Los Angeles.....	150,930

SEARS POINT, Sonoma Co., Cal.—Dunsmuir & Harrison Co., deYoung Bldg., San Francisco, awarded contract by Sears Point Toll Road Company to construct Toly Creek drawbridge to replace unit destroyed by fire. The work will involve an expenditure of approximately \$30,000.

VALLEJO, Solano County, Calif.—Fire completely destroyed the Tule Creek drawbridge on the Sears Point toll road, 12 miles southwest of Vallejo. It was a 125 foot wooden structure.

DREDGING, HARBOR WORKS & EXCAVATIONS

SANTA CRUZ, Santa Cruz Co., Cal.—Frank Wilson heads a committee appointed by the Santa Cruz Yacht Club, to investigate the possibility of improving the mouth of the San Lorenzo River with a jetty, breakwater and yacht harbor with appurtenances for pleasure boating and other seaside amusements. Preliminary surveys have been made and a report will be submitted to the directors of the club in the immediate future.

IRRIGATION PROJECTS

GRIMES, Colusa Co., Cal.—A. J. Atran is chairman of a committee seeking the formation of an irrigation district in the Grimes section to include approximately 10,000 acres with an estimated cost of placing water on the lands at \$2 per acre. A general meeting of landowners in the district will be held July 1 to consider tentative plans.

MACHINERY AND EQUIPMENT

SAN DIEGO, Cal.—Until 11 A. M., June 30, bids will be received by city purchasing agent, A. V. Goeddel, for furnishing one power grader in accordance with specifications prepared by the Manager of Operations and on file at the office of the Purchasing Department, 524 F St. Certified check, 5%.

PLACENTIA, Orange Co., Cal.—Until 7:30 P. M., July 6, bids will be received by the Placentia Union Grammar School District for furnishing one Mack school coach chassis, type No. 50, or equal; also for furnishing one Crown or Egge school coach body. Certified check or bond for 10% required. Mrs. Hazel Brants, clerk.

MERCED, Merced Co., Calif.—Until July 7, 7 P. M., bids will be received by Walter Mink, clerk, Merced Union Grammar School District, to furnish one 45-passenger school bus body and one chassis of sufficient strength and wheel base to accommodate this body. Bids will be received separately on the body and chassis. Certified check 10% payable to clerk required with bid. Specifications obtainable from W. E. Bedesen, engineer, Shaffer Bldg., Merced.

NAPA, Napa Co., Cal.—County supervisors authorize purchase of 30-hp. Caterpillar Tractor from the Ross Berglund Company for \$2,660, f.o.b. Napa.

RICHMOND, Contra Costa Co., Cal.—Until July 7, 2 P. M., bids will be received by W. T. Helms, secretary, Richmond Union High School District, to furnish and deliver:

(a) One gasoline motor three-ton bus chassis capable of accommodating 50 passenger bodies, the motor to be of sufficient size to attain a speed of at least thirty-five miles per hour without undue racing of the engine. Price must include speedometer, extra tire carrier, and extra tire, electrical equipment, not less than 10 ply tires with dual tires in rear.

(b) A bus body for the above type of chassis with driver controlled entrance door and driver controlled emergency door at the rear. Price must include a complete job, including painting, lettering, etc. Before submitting bids, secure approval of seating plan.

Further information obtainable from secretary.

RENO, Nevada.—Associated Equipment Co., Chicago, at \$3,675 submitted low bid to city council to furnish 50-hp. tractor for street department. Other bids, all taken under advisement, were: Nevada Hardware Co., \$3,725; Caterpillar Tractor Co., Reno, \$4,945.

MOUNTAIN VIEW, Santa Clara County, Calif.—Until July 13, 8 P. M. bids will be received by Mountain View Union High School District to furnish school coach body and school coach chassis. Specifications and further information available from D. Brunton, principal, Mountain View.

KINGSBURG, Fresno Co., Cal.—Until July 8, 8 P. M., bids will be received by Kingsburg Joint Union High School District to furnish two 36- to 45-passenger school buses, no 14s excepted \$2,560 each in cost. Bids to include chassis and body and to be made with and without consideration of trade-in on two old Garford busses. Specifications and further information available from A. E. Swanson, clerk of board.

FRESNO, Fresno Co., Calif.—Until July 11, 9 P. M., bids will be received by the Central Union High School District to furnish completely installed one body to take the place of that now being used on said Districts Bus No. 10. Plans and further information available from J. A. Brown, Route 10, Box 178, Fresno, Calif.

PLACERVILLE, El Dorado County, Calif.—Yellow Coach Company at \$3,228 awarded contract El Dorado County High School district to furnish and deliver one 60-passenger school bus chassis and one 50-passenger school bus body.

ARCATA, Humboldt Co., Cal.—Bids will be asked soon for a school bus with a capacity of 40 students, fitted with all modern safety appliances, by the Arcata Union High School Dist.

FIRE EQUIPMENT

SACRAMENTO, Sacramento County, Calif.—Until June 29, 3 P. M. bids will be received by U. S. Engineers Office, California Fruit Building, Sacramento to furnish 4 Foamite Fire Extinguishers, 2½ gal.; Pyrene Fire Extinguishers, 2½ gal.; 12 Pyrene Fire Extinguishers, 1 quart; 24 Refills for 2½ gal. Arrow Fire Extinguishers; 8 Refills for Foamite Fire Extinguishers, 2½ gal.; 6 Refills for Phomene Fire Extinguishers, 2½ gal.; 3 Refills for Foamite Fire Extinguishers, 2½ gal.; 48 Refills for Pyrene Fire Extinguishers, 1 quart.

Specifications and further information available from above.

SUNNYVALE, Santa Clara County, Calif.—Until July 6, 8 P. M. bids will be received by I. Traubschek, city clerk to furnish 750 feet an alternate of 50 foot lengths of Standard Double Jacket 2½ in. fire hose guaranteed to stand four hundred lbs. initial test pressure with heavy duty couplings. Certified check of 5% required, payable to Mayor. Further information available from above.

RENO, Nevada.—Durham-Chevrolet Co., Reno, at \$13,495 submitted low bid to city council to furnish new Mack fire truck. Alternate bid of \$12,995 submitted with dual bidders for similar truck with dual reduction drive. Other bids, all taken under advisement, were: Snelson Motor Co., representing the American La France Co., \$13,500; Segrave Co. of Columbus, Ohio, \$13,500.

RESERVOIRS AND DAMS

PANAMA CANAL ZONE.—Until ten third, A. M., Sept. 1, bids will be received by the office of the Panama Canal, Munitions Bldg., Washington, D. C. (Harry Burgess, Governor), for the construction of the Madden Dam, power plant and appurtenant works, Madden Dam Project, Canal Zone. The work is located near the village of Ahajuela on the upper Chagres river, in the Panama Canal Zone. The principal items are:
685,000 cu. yds. excav., all classes;
646,000 cu. yds. earth and rock fills in embankments;
518,000 cu. yds. concrete;

38,000 cu. ft. of grout;
35,000 lin. ft. drilling grout holes;
3,800,000 lbs. bars (reinfr.);
719,000 lbs. small metal pipe and fittings, installing;
705,000 lbs. large metal conduits, installing;
1,487,000 lbs. structural steel, installing;
6,700,000 lbs. gates, hoists and other metal work, installing.

Materials to be furnished by the contractor and those furnished by the Government are described in the specifications. Proposal guarantee, 10%. Plans and specifications may be obtained upon payment of \$2.50.

PIPE LINES, WELLS, ETC.

VISTA, San Diego Co., Cal.—Until 2 P. M., July 14, bids will be received by the Vista Irrigation District for trenching approximately 46,000 feet of trench at an average size of 18 by 36 in. in hauling and welding approximately 46,000 ft. of Matheson steel pipe ranging from 8-in. to 4-in. in diameter. Specifications obtainable from the secretary, W. C. Witman.

PITTSBURG, Contra Costa Co., Cal.—J. M.ough, 1201 East Twelfth St., Oakland, at \$1125 awarded contract by city council for drilling and casing well in connection with the municipal water system.

WATSONVILLE, Santa Cruz Co., Cal.—S. C. Marcus, Watsonville, at \$1427.92 awarded contract by city council to drill well in Second Street for municipal water department.

WATER WORKS

MARTINEZ, Contra Costa County, Calif.—Board of Directors, of the Contra Costa Golf Club plan to install \$4,000 automatic sprinkling system on the new nine hole course.

WOODLAND, Yolo Co., Cal.—Byron-Jackson Co., Berkeley, at \$1592.50 awarded contract by city council to furnish one 1000-gallon turbine pump for water system. Other bidders were: Norman B. Miller, \$1747; Sterling Pump Corp., \$1945; Layne & Bowler, \$1967.

SAN FRANCISCO.—Until July 6, 2 P. M., bids will be received by Leonard S. Leavy, purchasing agent, 270 City Hall, to furnish 200 fire hydrants, complete and 50 extra hydrants bodies for fire department. Specifications and further information available from above.

OAKLAND, Cal.—Until July 8, 8 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 Sixteenth St., to construct and furnish f.o.b. 25th and Adeline Streets, valve operating mechanisms for Lafayette and Wahnut Creek Pumping Plants. Specifications No. 44 obtainable from above office.

SACRAMENTO, Calif.—City council has sold the \$480,000 bond issue to finance construction of a new sedimentation basin in connection with municipal water system and bids will be asked this week for driving the piles in connection with the project. Harry G. Denton is city clerk and Fred J. Klaus, city engineer.

LONG BEACH, Cal.—California Industries, Ltd., Monrovia, submitted the low bid to city manager, C. C. Lewis, at 14 ft. for 30,000 ft. of 2-in. bell and spigot cast iron water pipe. Other bids were: Central Foundry, 18.8c; Crane Co., 19.5c; Pacific States Cast Iron Pipe Co., 19.5c; American Cast Iron Pipe Co., 20.5c; Grinnell Co., \$20.08 per C.

VALLEJO, Solano Co., Cal.—American Cast Iron Pipe Co., 808 Balboa Bldg., San Francisco, at \$25,005.70 awarded contract by city council to furnish bell and spigot cast iron pipe as follows:
1,776 ft. 20-in. cast iron pipe, class B or class 100;
6,778 ft. 24-in. do;
1,152 ft. 24-in. cast iron pipe class C or class 250 (alternate bid);
1 length of 16-in. cast iron pipe, class B or class 100;
70 fittings.

Complete list of bids follows:
*National Cast Iron Pipe Co., San Francisco, \$25,004.22
American C. I. Pipe Co., P. F., 28,905.70
U. S. C. I. Pipe & Foundry Co., San Francisco, 31,277.42
R. D. Wood, Philadelphia, 31,842.93
*Bid incomplete; did not bid on Alternate "3".

VISTA, San Diego Co., Cal.—Until 2 P. M., July 14, bids will be received by the Vista Irrigation District for trenching 46,000 ft. of steel pipe ranging in diameter from 3-in. to 8-in. Specifications may be obtained from the secretary, W. C. Witman, at the office of the district at Vista.

PITTSBURG, Contra Costa Co., Cal.—Bids will be asked shortly to furnish and install pump in connection with new water well for which a drilling contract has just been let. Geo. T. Oliver is city manager.

VALLEJO, Solano Co., Calif.—City council plans purchase of six 1½-in. fire hydrants for installation in the Cordelia section for fire protection, residents in the vicinity having petitioned for the installation. T. D. Killenny is city engineer.

PLAYGROUNDS & PARKS

SAN FRANCISCO.—Until July 6, 3 P. M., under Proposal No. 738, bids will be received by Leonard S. Leavy, city purchasing agent, 270 City Hall, to furnish:

5,000 cubic yards of red rock screenings and
10,000 cubic yards (more or less) of clay.
Above material for use of City Park Commission. Specifications obtainable from above office.

STREETS AND HIGHWAYS

SAN RAFAEL, Marin Co., Cal.—Until July 6, 8 P. M., bids will be received by Eugene W. Smith, city clerk to improve Laurel Place between Lincoln Avenue and west end of Laurel Place; portions of Nye and Wilkins Streets, involving:

- (1) 1,619 cu. yds. excavation;
- (2) 64,306 sq. ft. 3-in. rock subbase;
- (3) 64,306 sq. ft. 5-in. hydraulic concrete pavement;
- (4) 87 lin. ft. concrete curb (only);
- (5) 1,378 lin. ft. conc. gutter (only);
- (6) 3,447 lin. ft. conc. curb and gutter;
- (7) 2 standard catchbasins, complete;
- (8) 47 lin. ft. 10-in. C.I.P. culvert;
- (9) 153 lin. ft. 48x24-inch arch culvert, complete;
- (10) 14 lin. ft. 4x2x4-in. do;
- (11) 2 lampholes, complete;
- (12) 6 manholes, complete;
- (13) 308 lin. ft. 4-in. ironstone pipe;
- (14) 1,048 lin. ft. 6-in. do;
- (15) 1 cu. yd. concrete sewer protection.

Certified check 10% payable to city required with bid. Plans on file in office of clerk, Herbert K. Brainerd, city manager.

SEBASTAPOL, Sonoma County, Calif.—City Council declares intention (\$90A) to improve McFarlane Avenue by widening 20 feet for a distance of

205 feet. Further information available from city clerk.

EUREKA, Humboldt County, Calif.—Until July 10, 10 A. M. bids will be received by Fred M. Kay, County Clerk, to surface with unclassified Asphalt the following roads:

DISTRICT NO. 2—From the State Highway at Alton to the end of the Warrentite Pavement at Hydesville, a distance of two and six-tenths (2.6) miles. To be surfaced eighteen feet (18') wide. From the end of the Warrentite Pavement at Rohnerville to the end of the Warrentite Pavement at Hydesville, via Wolverton Gulch, a distance of two and five-tenths (2.5) miles. To be surfaced eighteen feet (18') wide.

DISTRICT NO. 3—The Cannibal Island road from the end of the Warrentite Pavement to Quills Slough, a distance of seven-tenths (.7) miles. To be surfaced eighteen feet (18') wide. The Light House Road from the end of the Warrentite Pavement to Quinn's Road, a distance of two and nine-tenths (2.9) miles. To be surfaced eighteen feet (18') wide. The Dungan Ferry Road from the end of the Warrentite Pavement toward El River, to be surfaced sixteen feet (16') wide for a distance of eighty-five hundredths (.85) miles.

Certified check of 5% required. Specifications obtainable from County Surveyor.

EUREKA, Humboldt County, Calif.—Until July 6, 10 A. M. bids will be received by Fred M. Kay, County Clerk to construct concrete sidewalk around the "Veterans Memorial Building." Certified check of 5% required. Plans and specifications available from County Surveyor.

EL DORADO COUNTY, Cal.—As previously reported bids will be received by State Highway Commission to surface about five and two-tenths (5.2) miles in length between Mays and the Nevada State Line (111-E-D-11-K) with bituminous treated crushed surfacing material and one and eight-tenths (1.8) miles between Bay View Rest and 1 mile north of Eagle Falls (111-E-D-38-B) surfacing to be bituminous treated. Quantities involved are:

- (1) 3300 cu. yds. imported borrow;
- (2) 7800 cu. yds. selected surfacing material;
- (3) 130 lbs. light fuel oil;
- (4) 765 tons cut-back asphalt, Grade E;
- (5) 370 stations mixing cut-back asphalt and surfacing material;
- (6) 273 stations constructing shoulders

BERKELEY, Alameda Co., Cal.—City council declares intention (659) to improve Oxford St., from west end of Hearst Ave. east of Oxford St., north to Rose St. and Rose St., from north extension to Shattuck Ave. to Spruce St., and Spruce St. from Rose St. to northeast city limits, involving grading; concrete pavement; conc. curbs and gutters; culverts; storm and sanitary sewers, etc. 1911 Act and Bond Act 1915. Hearing July 7. City will pay \$31,200 of the total cost from the city treasury general fund and an additional \$32,200 from the Trust Fund known as the Spruce St. Improvement Fund. Florence P. Turley is city clerk. Harry Goodridge, city engineer.

SACRAMENTO, Cal.—Until July 2, 5 P. M., bids will be received by H. G. Denton, city clerk, (2307) to improve alley between J and K, 28th and 29th Sts. involving grading, culverts, drainage with vit. sewer pipe connections; construct vit. sewers; reconstruct manhole; install one-inch water main connections, grading, hydraulic concrete pavement. 1911 Act. Bond Act 1915.

Certified check 10% payable to city required with bid. Plans on file in office of clerk. Fred J. Klaus, city engineer.

MARIPOSA COUNTY, Calif.—Until July 15, 2 P. M. bids will be received by State Highway Commission to grade between Orange Hill School and Pain Flat (VI-134-18-A-1.) about seven and four-tenths (7.4) miles in length.

LOS ANGELES COUNTY, Calif.—Until July 15, 2 P. M. bids will be received by State Highway Commission to grade about twelve and five tenths (12.5) between Pine Creek and Gorman (VII-L.A.-4-1&J)

NAPA, Napa Co., Cal.—Until July 7, 10 A. M., bids will be received by Jas. A. Daly, county clerk, for cut-back asphaltic wearing surface on 10 miles from the Putah Creek Bridge through the town of Monticito to a point above the entrance to the Joseph W. Harris Ranch. Specifications on file in office of clerk.

SAN JOSE, Santa Clara Co., Cal.—Until July 6, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve portions of the Senter, Tully and Story roads in Supervisor District No. 2. Depressions in the Senter road, from the San Jose city limits to the Tully road and from Singleton to the Monterey road, will be filled with asphaltic concrete. The same work will be done to the Story roads from Coyote Creek to McLaughlin Ave. and Tully road from the Monterey road to the King road. Specifications obtainable from Robert Chandler, county surveyor, on payment of \$1.

SAN JOSE, Santa Clara Co., Cal.—Until July 6, 11 A. M., bids will be received by Henry A. Pfister, county clerk, for oil macadam pavement on the Foxworthy road to Union Avenue in Supervisor Districts Nos. 4 and 5. Specifications obtainable from Robert Chandler, county surveyor, on payment of \$1.

HUMBOLDT COUNTY, Nev.—Until July 1, 3:30 P. M., bids will be received by S. C. Durkee, state highway engineer, for furnishing, heating and applying asphaltic fuel oil and mixing it with a crushed rock or crushed gravel surface from Winnemucca to Stonehouse, Route 1, Sections A4, B, C1, and C2, a length of 37.77 miles, involving:

- (1) 793,571 gals. asphalt fuel oil applied to roadway surface;
- (2) 37.77 miles mixing asphalt fuel oil with crushed rock or crushed gravel surface;
- (3) 37.77 miles rebuilding and finishing shoulders.

NOTE: The oil shall be delivered at the following railway sidings and in the quantities shown: Winnemucca siding, 194,027 gals.; Ellis siding, 132,667 gals.; Golconda siding, 347,995 gals. Valmy siding, 158,972 gals. Average haul on entire contract, 4.77 miles. Plans may be obtained from engineer at Carson City. Certified check, 5%.

DOUGLAS COUNTY, Nev.—Until July 1, 3 P. M., bids will be received by S. C. Durkee, state highway engineer, for furnishing, heating and applying asphaltic fuel oil and mixing it with a crushed rock or crushed gravel surface from 5 miles east of Holbrook to 2 miles north of Carters, and from 4 miles south of Gardnerville to Gardnerville, Route 3, Sections A2, B1 and B2, a length of 19.06 miles, involving:

- (1) 402,846 gals. asphaltic fuel oil applied to roadway surface;
- (2) 19.06 miles mixing asphaltic fuel

oil with crushed rock or crushed gravel surface;

- (3) 19.06 miles rebuilding and finishing shoulders.

NOTE: The oil shall be delivered at the following railway siding and in the quantity shown: Minden, 402,646 gals. Average haul on entire contract, 13.04 miles. Plans may be obtained from engineer at Carson City. Certified check, 5%.

ELKO COUNTY, Nev.—Until July 1, 2 P. M., bids will be received by S. C. Durkee, state highway engineer, to construct state highway between east foot of Pequops and 4 miles east of Silver Zone, Route 1, Sections F and G2, a length of 18.76 miles, involving:

- (1) 85,100 cu. yds. roadway excav.;
 - (2) 875 cu. yds. structure excav.;
 - (3) 7160 cu. yds. selected borrow excavation in place;
 - (4) 63,077 yd. sta. overhaul;
 - (5) 10,321 miles prepare subgrade and shoulders;
 - (6) 105 demolish headwalls;
 - (7) 8.45 miles prepare shoulders;
 - (8) 59,306 cu. yds. crushed rock or crushed gravel surface in place;
 - (9) lump sum, furnish water equip.;
 - (10) 4245 M. gals. applying water;
 - (11) 30 cu. yds. class A concrete;
 - (12) 20 cu. yds. class B concrete;
 - (13) 206 lin. ft. 15-in. corr. metal pipe in place;
 - (14) 1013 lin. ft. 18-in. do;
 - (15) 518 lin. ft. 24-in. do;
 - (16) 110 lin. ft. 30-in. do;
 - (17) 36 lin. ft. 36-in. do;
 - (18) 15 corr. metal pipe culvert extensions in place;
 - (19) 163 cu. yds. cement rubble masonry in place;
 - (20) 116 cu. yds. riprap in place;
 - (21) 1750 lin. ft. remove woven wire guard fence;
 - (22) 162 monuments in place;
 - (23) 3 furnish and install posts for F. A. markers;
 - (24) 2475 m. finishing roadway.
- Plans may be obtained from Carson City on deposit of \$15, of which \$10 will be returned. Certified check 5%.

CLARK COUNTY, Nev.—Until July 1, 2:30 P. M., bids will be received by S. C. Durkee, state highway engineer, for furnishing, heating and applying asphaltic fuel oil and mixing it with a crushed rock or crushed gravel surface from west slope of Mormon Mesa to Lower Virginia River Bridge, Route 6, Sections G and H1, a length of 19.68 miles, involving:

- (1) 461,827 gals. asphaltic fuel oil applied to roadway surface;
 - (2) 19.68 miles mixing asphaltic fuel oil with crushed rock or crushed gravel surface;
 - (3) 19.68 miles rebuilding and finishing shoulders;
 - (4) 8584 sq. yds. oiling shoulders and side slopes, including furnishing 4292 gallons asphaltic fuel oil.
- NOTE:** The oil shall be delivered at the following railway siding and in the quantity shown: Arrow Siding, 461,827 gals. Average haul on entire contract, 14.49 miles. Plans may be obtained from engineer at Carson City. Certified check, 5%.

STOCKTON, San Joaquin Co., Cal.—Until July 20, bids will be received by Eugene Graham, county clerk, to improve the Mosely Road. Plans obtainable from Julius Manthey, county surveyor.

STOCKTON, San Joaquin Co., Cal.—Willard and Biasotti, Stockton, at \$9,832 awarded contract by county supervisors to improve three miles of the A. O. Stewart Road.

GILROY, Santa Clara Co., Calif.—City council, due to protests of property owners, has cancelled proceedings to improve 4th, 7th, Rosanna, Church and Railroad Sts., etc., under Resolution of Intention No. 7, in-

volving in the main 360,000 sq. ft. 5-in. asphalt concrete pave, curbs, walks, etc. R. W. Flisher, engineer, 74 N First St., San Jose.

WILLOW GLEN, Santa Clara Co., Cal.—Until July 13, bids will be received by Dana Thomas, city clerk, (80) to widen and extend Kotenberg Avenue in Acq. and Imp. Dist. No. 1, involving:

- (1) 55,685 sq. ft. 4½-in. asphalt concrete pavement;
 - (2) 3,060 lin. ft. P.C. concrete curb;
 - (3) 7,582 sq. ft. P.C. concrete gutter;
 - (4) 15,300 sq. ft. P.C. conc. sidewalk.
- Acq. and Imp. Act 1925. Plans on file in office of city clerk. H. N. Bishop, engineer, Bank of Italy Bldg., San Jose.

HAYWARD, Alameda Co., Calif.—City Engineer Jesse B. Holly is preparing specifications for a 14-ft. setback on the west side of Castro St. from C Street to the southern city limits. James D. Smalley, city water superintendent, was authorized to make extensions of the water system in the Jacobsen tract near Kelly Avenue.

ELKO COUNTY, Nev.—Until Aug. 5, 2 P. M., bids will be received by S. C. Durkee, district engineer, Carson City, to furnish and apply asphaltic oil to the roadway surface in Elko County between 4 miles east of Silver Zone and Wendover, approximately 15.85 miles in length. Certified check of \$5 required with bid. Plans and specifications will be ready for examination about July 20 at the offices of the following: County Clerk's Office at Elko; the Highway Department Division Offices at Reno and Elko, and at the District Office of the Bureau of Public Roads, 461 Market St., San Francisco.

SACRAMENTO, Sacramento Co., Cal.—H. Gould, 1929 27th St., Sacramento awarded contract by city council for clearing and grading site for the new pre-treatment works at the municipal filtration plant. Following is a complete list of bids received:

- (a) clearing site; (b) grading site.
H. Gould, Sacramento (a) \$500; (b) \$2500, 60 days.
M. J. Krestor, Sacramento (a) \$1185; (b) \$2880, 30 days.
Delta Dredging Co., Stockton (a) \$1500; (b) \$4400.
J. R. Reeves, Sacramento (a) \$1800; (b) \$2625.

SAN JOSE, Santa Clara Co., Cal.—Until June 25, 8 P. M., bids will be received by J. J. Lynch, city clerk, (5364) to improve Filomena Ave. from San Pedro St. to a point 402 ft. westerly and a portion of San Pedro St. involving grading, 1½-in. asphalt concrete surface pavement on 3-in. asphalt base, cem. conc. gutters, walks and inlets, 8-in. vit. pipe drains. 1911 Act. Certified check of 10% required with bid. Specifications and further information obtainable from above. Wm. Popp, city engineer.

SAN JOSE, Santa Clara Co., Cal.—City Council declares intention (5393) to improve Sixteenth street from Jackson to Taylor Sts. involving grading, paved with asphaltic concrete wearing surface one and one-half (1½) inches thick, with asphaltic concrete foundation three (3) inches thick; cement concrete curbs; gutters; cement concrete walks; six (6) inch vitrified pipe sanitary main sewer; brick manholes; 4-in. vit. pipe house laterals; wye branches. Act 1911. Hearing June 25, at 8 P. M. J. J. Lynch, city clerk. Wm. Popp, city engineer.

EUREKA, Humboldt Co., Cal.—Smith Brothers awarded contract at \$194 cu. yds. of \$3880 for total work by County Supervisors to furnish 2000

cubic yards or more of crushed rock for Martins Ferry Road; same to be surfaced with crusher run 7-foot wide and 6-inches thick, beginning at a point near French Camp and extending to Martins Ferry in Road District No. 5. Complete list of bids follow:

Smith Bros.	\$3880
W. S. Selvage	4180
J. C. Kjer	4900
H. C. Andrews	5390

MONTREY, Monterey Co., Cal.—Until July 7, 7 P. M., bids will be received by C. A. Dorsey, city clerk, (3146) to improve Hoffman Ave., bet. Ocean View Ave. and Lighthouse Ave. and from Lighthouse Ave. to Hawthorne St. and Prescott Ave. from Ocean View Ave. to Lighthouse Ave. and from Lighthouse Ave. to Hawthorne St., involving paving with 1½-in. asphalt macadam surface. 1911 Act. Bond Act 1915. Certified check of 10% required with bid. Plans and specifications obtainable from city clerk.

MONTREY, Monterey Co., Cal.—Until July 7, 7 P. M., bids will be received by C. A. Dorsey, City Clerk, (3137) to improve David Avenue, bet. Hawthorne and Pine Sts., and from Pine St. to west city limits, involving paving with 1½-in. asphalt macadam surface on existing waterbound macadam base; 24 4-in. house connection sewers. 1911 Act. Bond Act 1915. Certified check of 10% required with bid, payable to City of Monterey. Specifications on file with city clerk.

YREKA, Siskiyou Co., Calif.—City Council declares intention (9C) to improve Center Street, Lane Street, intersections of Miner with Oregon and Fourth, Broadway, Gold Street, portion of Main adjacent to Broadway involving grading; hydraulic cement concrete curbs; corr. and corrugated iron part circle culverts with concrete headwalls and aprons, junction manholes, cement concrete catchbasins; corrugated iron pipe; hydraulic cement concrete pavement with emulsified asphaltic penetration macadam. Bond Act 1915. Improvement Act 1911. Hearing July 2, 8 P. M. U. F. Brown, city clerk.

EL DORADO COUNTY, Calif.—Until July 15, 2 P. M. bids will be received by State Highway Commission to surface about one and eight-tenths (1.8) miles between Bay View Rest and 1 Mile North of Eagle Falls (111-E-D-38-B) surfacing to be bituminous treated.

SANTA CLARA COUNTY, Calif.—Until July 15, 2 P. M. bids will be received by State Highway Commission to grade and pave about one and four-tenths (1.4) miles in length between Coyote Creek and San Jose (IV-SCL-5-A) with Portland cement concrete and asphalt concrete.

ALAMEDA, Alameda County, Calif.—Henry-Moore Company, 344 High Street, Oakland, awarded contract at \$3.25 per barrel to furnish 2000 barrels more or less Call L 2 road oil or equal and 2000 barrels more or less Bitumulus 95 or equal.

SALINAS, Monterey County, Cal.—Granite Const. Co., Watsonville, at \$31,750 awarded contract by county supervisors for grading and surfacing a portion of the Watsonville-San Juan Road from the State Highway near Dunbarton westerly 2½ miles in Supervisor District No. 1. Following is a complete list of bids: Granite Const. Co., Watsonville, \$31,752 Peninsular Paving Co., S. F., 36,936 W. A. Dontanville, Salinas, 38,127

SAN BERNARDINO COUNTY, Cal.—Until July 14, 2 P. M. bids will be received by C. H. Sweetser, district engineer, 461 Market Street, San Francisco, to grade Section A, Route 68, Mill Creek National Forest Highway, San Bernardino County, about 1.266 miles in length. Approximate quantities involved follow:

- (1) 15 acres clearing;
- (2) 162,100 cu. yds. unclass. excavation;
- (3) 2,650 cu. yds. unclass. excavation structures;
- (4) 3,300 cu. yds. unclass. excavation borrow;
- (5) 48,200 station yards overhaul;
- (6) 1,266 miles finish, earth graded road;
- (7) 2,200 cu. yds. miles hauling borrow;
- (8) 4 cu. yds. Class A concrete;
- (9) 15.6 cu. yds. Class B concrete;
- (10) 400 lbs. reinforcing steel;
- (11) 355 cu. yds. Cement Rubble Masonry;
- (12) 1,452 lin. feet corr. metal pipe;
- (13) 246 cu. yds. Hand Laid Rock embankment;
- (14) Lump Sum Spillway connections and fittings;
- (15) 566 each Stretchers for concrete cribbing;
- (16) 316 each Headers for concrete cribbing.

Certified check of 5% required with bid, made payable to Federal Reserve Bank of San Francisco. Plans and specifications obtainable from above on deposit of \$10, returnable.

EL DORADO COUNTY, Calif.—Until July 15, 2 P. M. bids will be received by State Highway Commission to surface about eight and six-tenths (8.6) miles in length between Riverton and Kyburz (111-E-D-11-G) with bituminous treated crushed gravel or stone (Road Mix.)

SANTA CLARA COUNTY, Cal.—As previously reported bids will be received by State Highway Commission to grade and pave about one and four-tenths (1.4) miles in length between Coyote Creek and San Jose (IV-SCL-5-A) with Portland cement concrete and asphalt concrete.

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and asphalt concrete. Quantities involved are:

- (1) 56 each, removing trees (Size 1);
- (2) 30 each, removing trees (Size 2);
- (3) 8 each, removing trees (Size 3);
- (4) 1890 cu. yds. roadway excavation without class;
- (5) 760 cu. yds. structure excavation;
- (6) 20,000 cu. yds. imported borrow;
- (7) 2000 cu. yds. gravel base;
- (8) 1690 cu. yds. class A Portland cement concrete (pavement);
- (9) 50 cu. yds. class A Portland cement concrete (curb);
- (10) 45,200 lbs. bar reinf. steel (pavement and structures);
- (11) 21,530 sq. yds. asphalt paint binder;
- (12) 7425 tons asphalt concrete;
- (13) 831 lin. ft. 12-in. corr. metal pipe
- (14) 160 lin. ft. 18-in. corr. metal pipe
- (15) 255 lin. ft. corr. metal pipe (clean and relay);
- (16) 12,560 sq. yds. asphaltic skin coat removed from existing pavement;
- (17) 233 cu. yds. Portland cement concrete removed from existing pavement and structures;
- (18) 1100 cu. yds. Portland cement concrete removed from existing bridge;
- (19) 1233 cu. yds. riprap (broken concrete);
- (20) 0.5 mile new property fence;
- (21) 0.15 mile moving and resetting property fence;
- (22) 0.1 mile moving and resetting tight board property fence;
- (23) 5 each, gates complete in place;
- (24) 556 lin. ft. laminated timber guard rail;
- (25) 6 each, culvert markers;
- (26) 74 sta. finishing roadway;
- (27) 21 each, monuments complete in place.

State will furnish corrugated metal pipe and cast steel frames and covers for drop inlets.

MARIPOSA COUNTY, Calif.—As previously reported bids will be received by State Highway Commission to grade between Orange Hill School and Pain Flat (VI-Mpa-18-A.I.J.) about seven and four-tenths (7.4) miles in length.

Quantities involved are:

- (1) 70 each, trees removed and disposal of;
- (2) 148,050 cu. yds. roadway excavation without class;
- (3) 454,700 sta. yds. overhaul;
- (4) 2050 cu. yds. imported borrow (selected material);
- (5) 350 cu. yds. structure excavation;
- (6) 80 cu. yds. class A Portland cement concrete (structures);
- (7) 460 bbls. light fuel oil;
- (8) 20 lin. ft. 12-in. corr. metal pipe;
- (9) 184 lin. ft. 18-in. corr. metal pipe;
- (10) 76 lin. ft. 20-in. corr. metal pipe;
- (11) 96 lin. ft. 42-in. corr. metal pipe;
- (12) 150 cu. yds. rubble masonry;
- (13) 2 miles new property fence;
- (14) 4 each, gates complete in place;
- (15) 292 sta. finishing roadway;
- (16) 125 each, monuments complete in place.

The state will furnish corrugated metal pipe, reinforcing steel, monuments, gates and materials for fencing.

EL DORADO COUNTY, Calif.—Until July 15, 2 P. M. bids will be received by State Highway Commission to about five and two-tenths (5.2) miles in length between Mays and the Nevada State Line (111-E-D-11-K) with bituminous treated selected surfacing material.

SAN FRANCISCO—Hanrahan Co., Hobart Bldg., at \$36,892.50 awarded contract by Board of Public Works to extend Van Ness Ave. from Mission to Howard street. Complete list of unit and total bids received on this project published in issue of June 18.

WILLOW GLEN, Santa Clara Co., Cal.—Until July 13, bids will be received by Dana Thomas, city clerk, (83) to improve Blewett Avenue, Acq. and Imp. District No. 2, involving:

- (1) 55,540 sq. ft. 4½-in. asphalt pavement;
- (2) 4,000 lin. ft. P.C. concrete curb;
- (3) 8,000 sq. ft. P.C. concrete gutter;
- (4) 20,000 sq. ft. P.C. conc. sidewalk.

Acq. and Imp. Act 1925. Plans on file in office of city clerk, H. N. Bishop, engineer, Bank of Italy Bldg., San Jose.

WILLOW GLEN, Santa Clara Co., Cal.—Until July 13, bids will be received by Dana Thomas, city clerk, (86) to improve Willow St., Acq. and Imp. Dist. No. 3, involving:

- (1) 120,000 sq. ft. 5½-in. asphalt pavement;
- (2) 490 lin. ft. 12-in. P.C. conc. pipe;
- (3) 260 lin. ft. 18-in. do;
- (4) 48 lin. ft. 21-in. do;
- (5) 325 lin. ft. 24-in. do;
- (6) 355 lin. ft. 21-in. do;
- (7) 558 lin. ft. 30-in. do;
- (8) 292 lin. ft. 36-in. do;
- (9) 63 lin. ft. 42-in. do;
- (10) 19 inlets;
- (11) 10 manholes;
- (12) 7000 lin. ft. P.C. concrete curb;
- (13) 14,000 sq. ft. P.C. conc. gutter;
- (14) 35,000 sq. ft. P.C. conc. sidewalk

Acq. and Imp. Act 1925. Plans on file in office of city clerk, H. N. Bishop, engineer, Bank of Italy Bldg., San Jose.

SANTA CRUZ, Santa Cruz Co., Cal.—Until July 7, 2:30 P. M. bids will be received by H. E. Miller, county clerk, for macadam pavement surface on the Bodfish road in the Pajaro Road District, from the end of East Lake Ave. to the summit in Santa Clara County; estimated cost \$37,000. Certified check 10% required with bid. Plans obtainable from Lloyd Bowman, county surveyor, on payment of \$3.

HUMBOLDT COUNTY, Cal.—Hemstreet & Bell, Marysville, at \$64,908 submitted low bid June 24 to the State Highway Commission to surface with bituminous treated gravel, 8.4 miles between Big Lagoan and Freshwater Lagoan. Following is a complete list of bids:

- Hemstreet & Bell, Marysville.....\$64,908
- Mercer-Fraser Co., Eureka..... 66,184
- W. H. Hauser, Oakland..... 69,920
- Heafey-Moore, Oakland..... 73,320

MENDOCINO COUNTY, Cal.—Peter McHugh, 300 Valdez Ave., San Francisco, at \$67,631 submitted low bid June 24 to State Highway Commission to improve 2.3 miles between Dry Creek Bridge and Christine, involving grading, surface with screened gravel and construct timber bridge. Complete list of bids follows:

- Peter McHugh, San Francisco.....\$67,631

- F. C. Cuffe, San Rafael..... 67,970
- H. H. Boomer, San Francisco..... 68,053
- Granfield, Farrar & Carlin, San Francisco..... 71,309
- Healy-Tibbitts Const. Co., San Francisco..... 75,233
- Kennedy Const. Co., Oakland..... 75,989
- Contoules Const. Co., S. F..... 76,335
- Chittenden & Howe, Napa..... 83,311

PLACER & NEVADA COUNTIES, Cal.—C. W. Wood, Stockton, at \$66,380 submitted low bid June 24 to the State Highway Commission for bituminous treatment on 20 miles between Airport and Soda Springs. Complete list of bids follows:

- C. W. Wood, Stockton.....\$66,380
- Force Const. Co., Piedmont..... 69,930
- Geo. French, Jr., Stockton..... 70,828
- Fred Nighert, Bakersfield..... 75,734
- Granite Const. Co., Watsonville 79,329
- A. Teichert & Son, Sacramento 85,812

MADERA COUNTY, Calif.—Until July 16, 2 P. M. bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading Section C of Route 47, Oakhurst National Forest Highway in the Sierra National Forest, Madera County, 6.139 miles in length, involving:

- 50 acres clearing;
- 304,000 cu. yds. unclass. excav.;
- 780 cu. yds. unclass. excav. for struc.;
- 20,000 sta. overhaul;
- 6.139 miles finish curb graded roads;
- 8 cu. yds. foundation fill;
- 2 cu. yds. class A concrete;
- 57 cu. yds. class B concrete;
- 630 lbs. reinforcing steel;
- 3922 lin. ft. corr. metal pipe in place;
- 164 cu. yds. hand-laid rock embankment;
- 22 each R. W. monuments.

Plans obtainable from district engineer on deposit of \$10, returnable, checks for same to be made payable to the Federal Reserve Bank of San

RED BLUFF, Tehama Co., Cal.—Until July 15, 10 A. M. bids will be received by the Directors of Joint High School District No. 18 to construct the first unit of the road from Proberta to Los Molinas, being that section between Gerber and Los Molinas, a distance of 4 miles, 20 ft. wide. Armor type asphaltic oil surfacing is specified. M. C. Polk, Chico, engineer for the district.

Simplified practice recommendation R-28-29 covering sheet steel has been reaffirmed by the standing committee of the industry, without change, for another year, according to an announcement by the division of simplified practice of the Bureau of Standards, Department of Commerce. This recommendation provides for stock sizes of sheet steel in various gages, and has been instrumental in reducing variety from 1869 sizes to 209, or approximately 88 per cent.

CONTRACTORS' MACHINE WORKS

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Bunkers, Hoppers, Chuting, Conveyors, Rollers, Mixers, Hoists, Shovels, Tractors, Pavers, Crushers, Drag Lines, Elevators, Car Unloaders, and other Road and Building Equipments;

BLACKSMITHING AND WELDING

Builders of Rosenberg Portable Car Unloaders

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Phone Garfield 4374 San Francisco

How much does it cost to operate automotive vehicles over the public roads? How much does it cost per vehicle mile to provide the highway for their use? How much are the highway users—trucks and automobiles—now contributing toward the cost of the roads they use, and how much should they pay to pay their fair share of the expense? No one yet can say exactly, but upon the answers to these questions depend the development of sound and equitable fiscal policies, says R. W. Crum, director of the Highway Research Board. The Committee of Highway Transportation of the Highway Research Board has recently made a notable contribution to the study of these problems. In its 1929 report, the committee set up the theorem that the actual average annual cost of a highway consists of the interest on the cost to construct, plus the average annual maintenance charge, plus the amount that should be set aside each year at compound interest to produce sufficient money at periodic intervals for reconstruction.

In the report for this year the committee has illustrated the application of this formula by detailed computations of transportation costs for two highways. One is for the section of the Boston Post Road between New Haven and Milford, Connecticut. This is one of the most heavily traveled roads in New England, carrying upwards of 18,500 vehicles per day. The other road differs very greatly from this one in general physical characteristics and is located on U. S. Highway 65, between Ames and Des Moines, Iowa. Here the traffic ranges from 2,125 vehicles on week days to 3,400 on Saturdays and Sundays.

The elements of roadway cost that must be taken into account include: Right of way; drainage structures; earthwork; salvage value of prior surfaces; cost to construct the existing surface; signs and other appurtenances; engineering and administration; annual maintenance; maintenance supervision and periodic reconstruction.

The annual costs of these sections of highway per vehicle mile were compared with the taxes per vehicle now imposed and with the vehicle operating costs. The results, therefore, show the relation between the annual costs of these two roads and the contribution to road funds being made by the users during the year.

The discussion of this report, which was participated in by Professor T. R. Aeg, chairman of the committee; Professor C. B. Ered, Mr. A. J. Brossau, Mr. E. W. James, Mr. L. I. Hewes, Mr. J. A. Sourwine, Mr. H. K. Craig and Professor D. P. Krynine, brought out the fact that since the relations between highway costs, vehicle operating costs and taxes upon vehicles and fuel vary widely with the extent to which the particular road is used, the comparisons shown by the report could only be applied to these roads and could not be used as bases for general taxation. However, it was pointed out that by the extension of such methods to a whole road system, average costs might be deduced which would furnish a sound basis for rate making or taxation.

Superior Judge Goodell has ruled that a contractor engaged on city work need not have his lumber and millwork done by San Francisco firms if he can obtain a cheaper price for work of a similar quality done in another community. The decision was made in the suit brought against the city by Mahony Brothers, contractors, to whom had been awarded the contract for the \$140,000 central warehouse at Fifteenth and Harrison Sts.

According to Timothy A. Reardon, president of the Board of Public

Works, this decision will be nullified by a new charter provision that becomes effective July 1, which makes it incumbent on contractors to pay wages identical to the wage in San Francisco by private concerns for similar work and to use material manufactured in establishments where the wage scale is the same as that in this city.

Also it is incumbent on the contractor to furnish proof that such material as he may use from outside manufacturers has been made by men receiving the San Francisco wage scale.

The ordinance applies to work done for city outside the limits as well as within them.

"Legislation safeguarding prevailing wage rates on public building projects is beginning to bear fruit," says Organized Labor, official organ of the California State Building Trades Council. "In the first test case organized labor won a complete victory."

"Last week the Interior Department refused to consider the W. R. Rose Company of North Carolina in awarding a contract for the construction of a new tuberculosis ward at St. Elizabeth's Hospital, Washington, although it had offered the lowest bid.

"This action was taken after representatives of building trade unions had protested that on other Federal jobs in Washington the Rose company had imported workers from the South when there were several thousand idle building tradesmen on the ground looking for work. It was also shown that the Rose company had unmercifully slashed wages and imposed bad conditions.

"Another count was that the company is indifferent to the safety of its employees. Last week a scaffolding on a Washington job of the Rose company collapsed, killing one worker and seriously injuring another. A grand jury indicted a foreman for manslaughter after a city building inspector had testified that he had twice warned officials of the unsafe condi-

tion of the scaffolding and directed that it be strengthened.

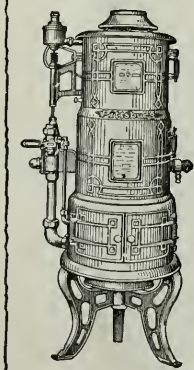
"Labor Department officials cooperated with labor representatives in getting the Rose company's record before the Interior Department. They strongly urged that its bid be rejected. "The Rose company is the first of the group of wage-slashing contractors on Federal work to fall under the ban of the safeguarding law."

At the recent convention of the Association of Master Plumbers of Washington, proceedings were started to secure passage of a measure to license plumbers under a state law. Plans were also discussed for promoting a state building code before the 1932 legislature.

The five-day week at six days' pay and a fair wage for all work are advocated by Richard J. Welch, California congressman from San Francisco.

"A fair and prevailing wage should be paid on all work, public or private," Welch said. "It hurts right down the line from factory to consumer when wages are reduced. It would be a calamity to take advantage of unemployment and reduce wages, thereby reducing the purchasing power of the people. That is common sense and not union labor propaganda."

Approval of bond issues totalling \$39,950,000 was given by voters of Kansas City and Jackson County, Mo., on May 26. The city will expend \$32,000,000 for various city improvements including \$3,500,000 waterworks improvements; \$1,500,000 sewers, pumping station and equipment; \$9,500,000 for city hall, auditorium, police and fire stations and \$2,000,000 for traffic ways, river control works and parks and playgrounds. Jackson County bonds will finance court houses in Kansas City (\$4,000,000) and Independence (\$200,000); county roads (\$3,500,000), and a \$250,000 detention home.



A "Pittsburg" Automatic Water Heater installed in the Home indicates high quality throughout.

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309 13th Street, Oakland 478 Sutter St., San Francisco

SEND FOR CATALOGS

Contracts Awarded

Liens, Acceptances, Etc.

BUILDING PERMITS

San Francisco County

No.	Owner	Contractor	Amt.
911	Walters	Owner	3500
912	Anderson	Owner	4000
913	Standard	Owner	3500
914	S. F.	Parker	250000
915	Standard	Owner	3500
916	Butcher	Alta	2200
917	Lang	Owner	4250
918	Crane	Stockholm	8800
919	Stroheim	Owner	28000
920	Stoneson	Owner	10500
921	Johnson	Owner	3500
922	Cowen	Owner	4900
923	Band	Owner	7500
924	Seger	Thornton	1000
925	Stoneson	Owner	12000
926	Moffat	Owner	3200
927	La Salle	Keely	1202
928	Denmon	Sterling	1100
929	Hurley	Owner	3000
930	Amatore	Owner	6500
931	Morris	Owner	3500
932	Altmayer	Schultz	1750
933	Sharman	Owner	5000
934	Hilyard	Paulson	3000
935	Johnson	Owner	7000
936	Nelson	Owner	5000
937	Kaiser	Owner	10000
938	Sullivan	Owner	8000
939	Orella	Young	15000
940	Chacanel	Canessa	4000
941	Ruegg	Owner	7000
942	Kelly	Young	12000
943	Brookes	Owner	8000

DWELLING

(911) S RICE 275 W San Jose Ave.; one-story and basement frame dwelling.
Owner—H. Walters, 291 Lobos St.
Architect—Not Given. \$3500

DWELLING

(912) W 16th AVE. 225 N Rivera; one-story and basement frame dwelling.
Owner—E. A. Anderson, 1177 De Haro Street.
Plans by Owner. \$4000

DWELLING

(913) W 20th AVE. 50 N Ortega; one-story and basement frame dwelling.
Owner—Standard Bldg. Co., 218 Castaneda.
Plans by Owner. \$3500

HOTEL

(914) S POWELL, 68 S Clay; seven-story class B hotel.
Owner—San Francisco Y. W. C. A., 620 Sutter St.
Architect—Julia Morgan, 1135 Merchants' Exchange.
Contractor—K. E. Parker Co., 135 So. Park. \$250,000

DWELLING

(915) E 21st AVE. 100 N Ortega; one-story and basement frame dwelling.
Owner—Standard Bldg. Co., 218 Castaneda.
Plans by Owner. \$3500

ALTERATIONS

(916) SW NINTH and HARRISON Sts.; Alterations to flooring.
Owner—T. Butcher.
Architect—Not Given.
Contractor—Alta Roofing Co., 976 Indiana St., San Francisco. \$2200

DWELLING

(917) W CHESTER 320 S Randolph. One-story and basement frame dwelling.
Owner—Lang Realty Co., 810 Ulloa St., San Francisco.
Plans by Owner. \$4250

ALTERATIONS

(918) 61 NEW MONTGOMERY ST. Alter exhibit room.
Owner—Crane Co., Chicago, Ill.
Architect—W. J. Clark, Crane Co., Chicago, Ill.
Contractor—C. Stockholm & Sons, Russ Bldg., S. F. \$8300

APARTMENTS

(919) E FILLMORE 100 S Jefferson St. Three-story and basement frame (12) apartments.
Owner—M. P. Storheim, 68 Euclid Ave., San Francisco.
Architect—R. K. Irvine, Call Bldg., San Francisco. \$28,000

DWELLINGS

(920) N NIAGARA 249 E Delano; 3 1-story and basement frame dwellings.
Owner—Stoneson Bros. & Thorinson, 279 Yerba Buena Ave.
Plans by Owner. each \$3500

DWELLING

(921) W 37th AVE. 83 S ANZA ST.; one-story and basement frame dwelling.
Owner—P. P. Johnson, 225 Lincoln Way.
Architect—Not Given. \$3500

DWELLING

(922) W 22nd AVE. 150 S Vicente; 1-story and basement frame dwelling.
Owner—S. Cowen, 1123 Taraval St.
Plans by Owner. \$4000

DWELLINGS

(923) N ORTEGA 65 W 16th Ave.; three 1-story and basement frame dwellings.
Owner—S. W. Band, 191 Valencia St.
Plans by Owner. each \$2500

DWELLING

(924) W 43rd AVE. 200 N Judah; one-story frame dwelling.
Owner—L. Seger, 1307 43rd Ave.
Architect—Not Given.
Contractor—J. C. Thornton, 36 De Wolf St. \$1000

DWELLINGS

(925) NW COR. 25th AVE. and Vicente; three 1-story and basement frame dwellings.
Owner—Stoneson Bros. & Thorinson, 279 Yerba Buena Ave.
Architect—Not Given. each \$4000

MILL BLDG.

(926) BURKE AVE. near Third and Arthur Ave.; three-story frame building.
Owner—H. Moffat Co., 3rd and Arthur Avenue.
Architect—R. M. Nichols, 472 5th St. \$3200

ALTERATIONS

(927) 715 INDIANA ST.; alterations to foundation.
Owner—La Salle Products Co., Inc., % 1442 Francisco St.
Architect—Not Given.
Contractor—R. E. Keely, 168 Hancock Street. \$1202

GARAGE

(928) E WELLS 100 N 16th St.; one-story class C garage.
Owner—T. F. Denmon, 1517 Market Street.
Architect—Neal & Stone, 1180 O'Farrell Street.
Contractor—Sterling Const. Co., 735 Baker St. \$1100

DWELLING

(929) E WISCONSIN 50 N 22nd St.; one-story and basement frame dwelling.
Owner—M. Hurley, 801 Wisconsin.
Plans by Owner. \$3000

FLATS

(930) W SAN BRUNO AVE. 150 N 25th St.; two-story and basement frame (2) flats.
Owner—F. Amatore, 2810 26th St.
Architect—Not Given. \$6500

DWELLING

(931) E 40th AVE. 150 S Balboa; one-story and basement frame dwelling.
Owner—S. Morris, 804 Brewster Ave., Redwood City.
Plans by F. Campbell. \$3500

ALTERATIONS

(932) 3641 JACKSON ST.; alterations to dwelling.
Owner—Mrs. R. Altmayer, 3641 Jackson Street.
Architect—C. Schultz, Sharon Bldg.
Contractor—W. E. Schultz, 155 Fairmont St. \$1750

ALTERATIONS

(933) NW REVERE and Jennings; alterations for two flats on present stores.
Owner—T. Sharman, 1700 Quesada.
Plans by Owner. \$5000

DWELLING

(934) SE COR. ELSIE and Eugenia; one-story and basement frame dwelling.
Owner—R. E. Hillgard, 1438 Dolores Street.
Architect—Not Given.
Contractor—C. Paulson, 59 Rice St. \$3000

DWELLINGS

(935) W 31st AVE. 225 N Vicente; W 24th Ave. 175 N Santlago; two 1-story and basement frame dwellings.
Owner—N. E. Johnson, 666 Mission St.
Plans by Owner. each \$3500

DWELLING

(936) W 19th AVE. 300 S Sloat Bldv.; one-story and basement frame dwelling.
Owner—F. Nelson & Sons, Ocean Ave. and Westgate Drive.
Architect—Not Given. \$5000

FACTORY

(937) BET. ALABAMA and Florida Sts., adjacent to 16th St.; one-story class A industrial factory.
Owner—Kaiser Paving Co., 1522 Latham Square Bldg., Oakland.
Plans by owner. \$10,000

FLATS

(938) N 18th St. 160 E Noe; two-story and basement frame flats.
Owner—C. Sullivan, 830 Guerrero St.
Architect—Not Given. \$3000

DWELLING
(939) NW MARIAN BLVD. and Divisadero St.; two-story and basement frame residence.
Owner—Mr. and Mrs. F. R. Orella, 411 Market Street.
Architect—C. F. Strothoff, 2274 15th Street.
Contractor—Young & Horstmeier, 461 Market St. \$15,000

STORES
(940) W SAN BRUNO 25 N Bacon; one-story frame stores.
Owner—V. Chacanel, 230 Third St.
Plans by E. Fetz, 3377 Cayuga Ave.
Contractor—L. Canessa, 381 Missouri Street. \$4,000

DWELLINGS
(941) E TALBOT 131 S Visitacion; two 1-story and basement frame dwellings.
Owner—The Ruegg Co., 369 Pine St.
Plans by Owner. each \$3,500

DWELLING
(942) S MARINA BLVD. 112 W Divisadero St.; two-story and basement frame residence.
Owner—Mr. and Mrs. F. S. Kelly, 46 Market St.
Architect—C. F. Strothoff, 2274 15th Street.
Contractor—Young & Horstmeier, 461 Market St. \$12,000

DWELLING
(943) BRENTWOOD AVENUE 98 NE Maywood Drive; two-story and basement frame dwelling.
Owner—D. K. Brookes, 346 Faxon Avenue.
Plans by Owner. \$8,000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
124	Nakahara	Sartorio	24100
125	Same	Buckley	6000
126	Same	Atlas	2700
127	De Vere	Casty	6819
128	Carlsen	Doelger	4850
129	Castor	Hummer	22450
130	Orella	Young	23450
131	Kelly	Young	17550

ALTERATIONS

(124) SW GRANT AVE. and California St.; all work except plumbing and heating for alterations and additions to building.
Owner—J. T. Nakahara, 359 Kearny Street.
Architect—G. Gentoku Shlomoto, 1551 Laguna St.
Contractor—Peter Sartorio, 1817 Filbert St.
Filed June 18, '31. Dated June 16, '31.
End of each month.....75%
Usual 35 days.....25%
TOTAL COST, \$24,100
Bond, \$12,500. Sureties, American Bonding Co. Limit, 65 days. Plans & Spec. filed.

(125) PLUMBING on above.
Contractor—Robert E. Buckley, 1767-A Geary Street.
Filed June 18, '31. Dated June 16, '31.
Roughing in completed.....\$1500
Hot and cold water piping in and bath tubs in.....1500
Completed and accepted.....1000
Usual 35 days.....1000
TOTAL COST, \$5,000
Bond, \$2,600. Sureties, New Amsterdam Casualty Co. Plans and Spec. filed.

(126) HEATING and gas fired boilers on above.
Contractor—Atlas Heating & Ventilation Co., 557 4th St.
Filed June 18, '31. Dated June 16, '31.
On completion.....25%
Usual 35 days.....75%

Cost plus 10% not to exceed \$2700
Bond, \$1400. Sureties, American Bonding Co. Plans and Spec. filed.

BUILDING

(127) S 24th 125 E Douglas; all work for two-story and basement frame building.
Owner—Ehalla and Roy De Vere, 4270 24th Street.
Plans by Owner.
Contractor—John Casty & Son, 4525 Mission St.
Filed June 19, '31. Dated June 15, '31.
Roof on.....\$1464
Plastering completed.....1454
Building completed.....1454
Usual 35 days.....1457
TOTAL COST, \$5819
Limit, 90 days. Plans and Spec. filed.

BUNGALOW

(128) E FOURTEENTH AVE 150 S Ulloa St. & 25x E 120. All work for one-story and basement frame bungalow.
Owner—E. A. and N. Carlsen.
Architect—Not Given.
Contractor—H. Doelger, 300 Judah St., San Francisco.
Filed June 20, '31. Dated June 16, '31.
Roof on.....\$1212.50
Brown coat plaster on.....1212.50
When completed.....1212.50
Usual 35 days.....1212.50
TOTAL COST, \$4,850
Bond, none. Limit, 90 days. Forfeit, plans and specifications, none.

BUILDING

(129) N THORNTON AVE 50 W Bay Shore. All work for building.
Owner—Joseph L. Castor Co.
Architect—Not Given.
Contractor—Wm. T. Hummer, 5811 Mission St., San Francisco.
Filed June 20, '31. Dated June 19, '31.
Frame up.....\$299.46
Completed and accepted.....299.46
Usual 35 days.....299.46
TOTAL COST, \$—
Bond, none. Limit, 30 days. Forfeit, plans and specifications, none.

RESIDENCE

(130) SW MARINA BLVD. and Divisadero W 37-6 x S 91-10½; all work on two-story and basement frame residence except light fixtures, shades, heating, sprinkling system, vault doors, refrigeration, hardware, wall paper and water heater.
Owner—F. R. and Albertine S. Orella.
Architect—Charles F. Strothoff, 2274 15th Street.
Contractor—Young and Horstmeier, Sheldon Bldg.
Filed June 23, '31. Dated June 18, '31.
Frame up and roof sheathing on.....\$5612.50
Brown coated.....5612.50
Completed and accepted.....5612.50
Usual 35 days.....5612.50
TOTAL COST, \$22,450
Bond, \$11,225. Sureties, American Bonding Co. Limit, 120 days. Plans and Spec. filed.

RESIDENCE

(131) S MARINA BLVD. 112-6 W Divisadero W 37-6 x S 124-4½; all work on two-story and basement frame dwelling except light fixtures, shades, heating, sprinkling system, vault door, refrigerator hardware, wall paper and water heater.
Owner—Frank S. and Louise S. Kelly.
Architect—Charles F. Strothoff, 2274 15th Street.
Contractor—Young and Horstmeier, Sheldon Bldg.
Filed June 23, '31. Dated June 18, '31.
Frame up and roof sheathing.....\$4387.50
Brown coated.....4387.50
Completed and accepted.....4387.50
Usual 35 days.....4387.50
TOTAL COST, \$17,550

Bond, \$8,775. Sureties, American Bonding Co. Limit, 120 days after June 24. Plans and Spec. filed.

COMPLETION NOTICES

Recorded	Accepted
June 22, 1931—COMG. AT P.T. of Extn of S Geary W of 43rd Ave W 27-6x E 100. Mrs. L. E. Petersen to whom it may concern..... June 22, 1931	
June 22, 1931—LOT 33 BLK 25, map Lakeview, P. Deane to whom it may concern..... June 19, 1931	
June 20, 1931—S RIVERA 71 E 21st Ave E 29xS 100. A C Johnson to whom it may concern..... June 17, 1931	
June 20, 1931—NE POST & SCOTT E 62-KX 37-6. Eureka Benevolent Society to A P and C W Matlock..... June 19, 1931	
June 20, 1931—COLUMBUS AVE & Grover Place. Associated Oil Co. to George Wolf..... June 13, 1931	
June 20, 1931—LOT 265, 206, 207 and 208, Spring Valley. M. A. Thos J Sullivan to whom it may concern..... June 19, 1931	
June 19, 1931—N BEAVER 205 W Castro. Geo J Meagher to whom it may concern..... May 15, 1931	
June 19, 1931—LOT 27 BLK G, Columbia Heights Tract. M. A. Collins to whom it may concern..... June 19, 1931	
June 19, 1931—N ASH ST 137-6 E Buchanan E 27-6 x N 60. H Diehing to whom it may concern..... June 19, 1931	
June 19, 1931—W 14th Ave 145 S Judah 25x120. Daniel Curtin to Robert McCarthy..... June 20, 1931	
June 19, 1931—LOT 28 and 26 to lot 27 blk 3262 Map Blks 3260 to 3259, Balboa Terrace Addn. A J and Mary A Herzog to whom it may concern..... June 19, 1931	
June 18, 1931—E 14th AVE 285 S Santiago. J and H Mager to whom it may concern..... June 18, 1931	
June 18, 1931—LOT 3 BLK 23, Map Forest Hill. J S Malloch to whom it may concern..... June 10, 1931	
June 17, 1931—E PLYMOUTH AVE 150 N Holloway Ave Bk 4 Lakeview, 1124 Plymouth Ave. Wm E and Johanna G Grosman to whom it may concern..... June 17, 1931	
June 17, 1931—W SEVENTEENTH Ave 50 S Santiago 25x95. S Douglas and Geo Gallagher to whom it may concern..... June 17 1931	
June 23, 1931—N ULLOA ST 160 W Sixteenth Ave. 1524 Ulloa St. A Bernhardt to whom it may concern..... June 23, 1931	
June 23, 1931—W THIRTY-FOURTH Ave 150 S Ulloa St. S 75xW 120. J Horn to whom it may concern..... June 23, 1931	
June 23, 1931—W THIRTY-EIGHTH Ave 25, 50 75 N Lawton N 25xW 90. Henry Doelger to whom it may concern..... June 18, 1931	
June 23, 1931—W TWENTY-FIRST Ave 250 N Judah N 50x120. Herman Christensen to whom it may concern..... June 23, 1931	
June 23, 1931—E BATTERY 4510 S Vallejo E 275 S 91-8 W 275 N 91-8 and including an L 45.10x30. Poultry Producers of Central Calif. to whom it may concern..... June 23, 1931	
June 23, 1931—NO. 129 SEVENTEENTH Ave. Anna C Martenstein to C C Sayre..... June 20, 1931	

LIENS FILED

Recorded	Amount
June 20, 1931—S FILBERT 43-0½ W Columbus Ave W 79-9½xS 137-6 Geo Sorensen vs K C Underhill; S	

Wellman; L Pucelnelli; A R Oliva; J Giannini and V J Culotta...\$245.30
 June 18, 1931—SW MARKET and 6th W 50 S 85 W 25 S 25 E 75 N 110, 100 1/2 Market St., Crowe Glass Co., \$228.90; Theodore G Moller as Moller & Sons, \$342.14, vs Charles Williams Co
 June 18, 1931—NW WOLFE AND Franconia W 25 x N 70. W J Lynch vs John E and Mary Hennessy\$720
 June 18, 1931—NORTH WOLFE and Franconia NE 25 xNW 70. M J Lynch vs John and Gustantinos Gerontopoulos\$742.50
 June 17, 1931—LOT 10 BLK 13 map Brown Estate Co. P Mesaner vs L B Terlip, J G Lehman\$30
 June 17, 1931—NW 38TH AVE AND Wawona 300x120. W F Vaughn & J Lucchesi vs J T and F E Nolan\$350
 June 17, 1931—COMG, 3724 E Wisconsin S from S 20 S 25x100; E Wisconsin 272 S Wisconsin N 50 xW 100. R Welch vs D Hand and B Rodriguez\$301.437
 June 23, 1931—W THIRTIETH AVE 175 S Rivera. P J Kelly vs D S Kavanagh\$325
 June 23, 1931—COM, 172.4 E Wisconsin S from S 20th S 25 W to beg E Wisconsin 272 S Wisconsin N 50xW 100. K Haglund vs Draper Hand and Belle Rodriguez\$131
 June 22, 1931—W THIRTIETH AVE 175 S Rivera S 25xW 120. Atlas Heating & Ventilating Co, Ltd, vs D S Kavanagh\$94
 June 23, 1931—W 30th AVE 175 S Rivera S 25 x W 120. Central Hdwe & Glass Co., \$171.83; California Terrazo Marble Co, \$60, vs D S Kavanagh
RELEASE OF LIENS
San Francisco County
 Recorded Amount
 June 20 1930—SE EIGHTEENTH and Connecticut S 75x E 100. Mallett & Peterson to Paul and Mary Agletti\$54

BUILDING PERMITS
Alameda County

No.	Owner	Contractor	Amt.
723	Townsend	Owner	2500
724	Reinlinghaus	Owner	6000
725	Netherby	Owner	4000
726	Reese	Nielson	1000
722	Whalen	Williamson	4000
728	Edwards	Nylander	4000
729	Johnson	Owner	5000
730	Clark	Burks	1000
731	Brophy	Owner	3000
732	Brenis	Owner	1500
733	Pederson	Owner	3000
734	Brazier	Owner	5000
735	Swartout	Peterson	6250
736	Nelson	McCate	2750
737	Smith	Rose	1000
738	Clough	Van Ness	2950
739	Clifford	Olson	5000
740	Terminal	Johnson	28719
741	Brazier	Owner	5000
742	Barrett	Owner	4000
743	Pfrang	Owner	5000
744	Fleming	Owner	3550
745	Crutcher	Nordly	6000
746	Stevens	Reimers	6700
747	Hackley	Owner	18000
748	Ealdwin	De Veliss	3000
749	Holdhoff	Owner	2900
750	Multroney	Independent	1200
751	Harrison	Brumfield	1000

ALTERATIONS
 (736) NO. 20 OAKVALE AVE., BERKELEY. Alterations. Owner—Mrs. E. Reese. Architect—Not Given.
 Contractor—N. F. Nielson, 2369 Green St., San Francisco. \$1000

FAMILY RESIDENCE (Frame)
 (723) 841 KEELER AVE., Berkeley, 2 story, 5 rooms.
 OWNER—Fred Townsend, 180 Southampton Rd., Berkeley. \$3,500

GARAGE, FAMILY RES. (Frame)
 (724) 681 SANTA ROSA AVE., 2-story, 10 room and garage.
 OWNER—M. S. Barnett, 658 Colusa Ave., Berkeley.
 ARCHITECT—R. Reinlinghaus, 22 Claremont Crescent, Berkeley. \$6000.00

DWELLING
 (725) 5033 PROCTOR AVE., OAKLAND; two-story 5-room dwelling.
 Owner and Builder—W. A. Netherby, 3853 Lyman Road, Oakland.
 Architect—Not Given. \$4000

RESIDENCE
 (727) NO. 15 BROOKSIDE DRIVE, BERKELEY. One-story 5-room 1-family frame residence.
 Owner—Whalen & Hufschmidt, 407 Federal Bldg., Oakland.
 Architect—W. W. Dixon, 1844 Fifth Ave., Oakland.
 Contractor—E. M. Williamson, 3761 Allendale Ave., Oakland. \$4000

DWELLING
 (728) NO. 702 BRIDGE ROAD, SAN LEANDRO. One and one-half-story 6-room dwelling.
 Owner—H. F. Edwards.
 Architect—Not Given.
 Contractor—Nyländer Bros., 633 Montclair St., San Leandro. \$4000

DWELLING
 (729) NO. 744 COLLIER DRIVE, SAN LEANDRO. One-story 6-room dwelling.
 Owner—L. Johnson, 223 Greenbank Ave., San Leandro.
 Architect—Not Given. \$5000

REPAIRS
 (730) 6145 TREMONT Street, OAKLAND; fire repairs.
 Owner—W. N. Clark, 6145 Tremont St. Oakland.
 Architect—Not Given.
 Contractor—C. E. Burks, 4129 Randolph Ave., Oakland. \$1000

DWELLING
 (731) E SIXTY-EIGHTH AVE 160 N Foothill Blvd., OAKLAND. One-story 6-room dwelling.
 Owner—Frank Brophy Jr., 6535 Foothill Blvd., Oakland.
 Architect—Not Given. \$3000

ALTERATIONS
 (732) NO. 2481 BANCROFT WAY, BERKELEY. Alterations.
 Owner—K. E. Brenis, 313 Syndicate Bldg., Oakland.
 Architect—Not Given. \$1500

RESIDENCE
 (733) NO. 1780 SAN LORENZO AVE., BERKELEY. One-story 5-room 1-family frame residence and garage.
 Owner—T. Pederson, 2145 Grant St., Berkeley.
 Architect—Not Given. \$3000

DWELLING
 (734) 2355 CORONA COURT, BERKELEY; 2-story 6-room frame and stucco dwelling.
 Owner and Builder—J. W. Brazier, 1227 Spruce St., Berkeley.
 Architect—J. H. Thomas, Berkeley. \$5000

DWELLING
 (735) S PROCTOR AVE, 50 E Modoc, OAKLAND; two-story seven-room dwelling.
 Owner—R. T. Swartout, 6038 Monroe Ave., Oakland.
 Architect—Not Given.

Contractor—J. R. Peterson, 645 Hadson Road, Oakland. \$5250

DWELLING
 (736) W LAGUNA AVE., 70 S Wilbur St., OAKLAND; one-story 5-room dwelling.
 Owner—M. Nelson, 3897 Rhoda Ave., Oakland.
 Architect—Not Given.
 Contractor—J. D. McCabe, 3454 Mountain Blvd., Oakland. \$2750

REPAIRS
 (737) 945 44th STREET, OAKLAND; fire repairs.
 Owner—F. B. Smith, 947 44th Street, Oakland.
 Architect—Not Given.
 Contractor—A. H. Rose, 478 25th St., Oakland. \$1000

DWELLING
 (738) N PLEASANT ST, 100 West Fruitvale Ave., OAKLAND; one-story 5-room dwelling and 1-story garage.
 Owner—E. F. Clough.
 Architect—Not Given.
 Contractor—L. E. Van Ness, 4920 Park Blvd., Oakland. \$2350

DWELLING
 (739) 1912 HOOVER AVENUE, OAKLAND; one-story 5-room dwelling.
 Owner—Jas. B. Clifford, 1123 Central Ave., Alameda.
 Architect—Not Given.
 Contractor—J. M. Olson, 974 Park St., Alameda. \$5000

WAREHOUSE
 (740) FIRST & MARKET STREETS, OAKLAND; one-story brick warehouse.
 Owner—Howard Terminal, First and Market Sts., Oakland.
 Architect—Reed and Corlett, Oakland Bank Bldg., Oakland.
 Contractor—S. G. Johnson, 4652 Dolores Ave., Oakland. \$23,712

(741) NO. 2355 CORONA COURT, BERKELEY. Two-story 6-room 1-family frame residence and garage
 Owner—J. W. Brazier, 1227 Spruce St., Berkeley.
 Architect—J. H. Thomas, Mercantile Bank Bldg., Berkeley. \$5000

ALTERATIONS
 (742) NW COR. 17th and Telegraph AVE., OAKLAND; alterations.
 Owner and Builder—Barrett & Hip, 918 Harrison St., San Francisco.
 Architect—Not Given. \$4000

DWELLING
 (743) NW COR. 56th ST. and Carberry Ave., OAKLAND; one-story 6-room dwelling.
 Owner and Builder—C. J. Pfrang, 6300 Claremont Ave., Oakland.
 Architect—Not Given. \$5000

DWELLING
 (744) S VICTOR AVE, 560 E Virden, OAKLAND; 1-story 6-room dwelling.
 Owner and Builder—Andrew Fleming, 4285 Monterey Blvd., Oakland.
 Architect—Not Given. \$3950

ALTERATIONS
 (745) 226 14th ST., OAKLAND; alterations to store.
 Owner—A. F. Crutcher, Los Angeles.
 Architect—Not Given.
 Contractor—Paul Nordly, 1129 6th Ave. Oakland. \$6000

DWELLING
 (746) 1265 SUNNYHILLS RD., OAKLAND; two-story 6-room dwelling.
 Owner—Harry Stevens.
 Architect—Not Given.
 Contractor—Irwin H. Reimers, 745 Wala Vista Ave., Oakland. \$6700

DWELLING

(747) NE COR. LINCOLNSHIRE and Glenbrook Drives, OAKLAND; 2-story 10-room dwelling.
Owner and Builder—Roy C. Hackley, 2514 Buena Vista Ave., Berkeley.
Architect—Masten & Hurd, 278 Post St., San Francisco, \$18,000

RESIDENCE

(748) NO. 620 CRAGMONT AVE., BERKELEY. Three-story 10-room 1-family frame and stucco residence.
Owner—Dwight Baldwin, 643 Cragmont Ave., Berkeley.
Architect—Arthur Herberger, Oakland Contractor—C. Dudley De Velbiss, 354 Hobart St., Oakland. \$5000

DWELLING

(749) W 175th AVE. 73 N Outlook Ave. OAKLAND; 1-story 5-room dwelling.
Owner and Builder—George Holdford, 1313 152nd Ave., San Leandro.
Architect—Not Given. \$2900

SERVICE STATION

(750) GORE HOPKINS, Georgia and Coolidge OAKLAND; 1-story steel service station.
Owner—Mary M. Mulgrooney, 2 8 4 3 Georgia St., Oakland.
Architect—Not Given.
Contractor—Independent Iron Works, 1824 Chase St., Oakland. \$1200

SIGN

(751) 1415 HARRISON Street, OAKLAND; electric sign.
Owner—Hotel Harrison.
Architect—Not Given.
Contractor—Brumfield Elec. Sign Co., 965 Folsom St., San Francisco. \$1000

BUILDING CONTRACTS

Alameda County

No.	Owner	Contractor	Amt.
102	Crutcher	Nordby	6500
103	Alameda	O'Mara	16500

ALTERATIONS

(102) N LINE 14th St. 102-97 ft E Alice St., 224 14th St., Oakland; alterations to the Crutcher Bldg.
Owner—Allan T. Crutcher, Box 604, Huntington Park.
Architect—Not Given.
Contractor—Paul Nordby, 1129 Sixth Ave., Oakland.
Filed June 18, '31. Dated June 8, '31. When carpenter work is roughed

In	25%
When plumbing, heating, electrical and elevator work is roughed in	25%
On completion	25%
Usual 35 days	25%

TOTAL COST, \$6500
Bond, \$6500. Sureties, Fidelity & Casualty Co. Forfeit, \$10 per day. Limit 34 working days. Plans and Spec. filed.

THEATRE

(103) PTN LOT 3 BLK 49, lands adjacent to town of Encinal, Alameda. All work for heating and ventilating equipment for theatre and store building.
Owner—Alameda Amusement Co., 25 Taylor St., San Francisco.
Architect—J. R. Miller and T. L. Pfleger, 680 Market St., San Francisco.
Contractor—O'Mara & Stewart, Ltd., 218 Clara St., San Francisco.

Filed June 20, '31. Dated May 29, '31.
On 5th of each month..... 75%
On completion..... 25%
Usual 35 days..... Balance
TOTAL COST, \$16,500
Bond, limit, forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

Alameda County

Recorded	Accepted
June 20, 1931—LOT 24 Ptn Lot 25 Blk 20, Kellersburger Map of Oakland. Gum Wing Wap of J O Young..... June 19, 1931	
June 20, 1931—NO. 3050 THOMSON AVE., Alameda. Herbert F Cook to John H Pickrel..... June 18, 1931	
June 20, 1931—FORTY-FIFTH AND Broadway, Oakland. Pacific Gillespie System, Inc to E C Hooson..... June 16, 1931	
June 20, 1931—FORTY-FIFTH AND Broadway, Oakland. Pacific Gillespie System, Inc to E C Hooson..... June 16, 1931	
June 20, 1931—LOTS 13 TO 29 BLK A; Lots 20 to 45 Blk H; Lots 13 to 28 Blk Q, East Oakland Terrace, Oakland. Suburban Development Co to Rufus Gonsalves (laying cement sidewalks)..... April 28, 1931	
June 19, 1931—LOT 39, Oaklawn Manor, Oakland. J E Neighbor to John E Bigelow..... June 16, 1931	
June 18, 1931—3919 PENNIMAN AVE Oakland, And'w Fleming to whom 15 may concern..... June 18, 1931	
June 18, 1931—PTN LOT 18 BLK 1, Melrose Acres, Oakland. Edward B and Annie M Robinson to P R Haulman..... June 16, 1931	
June 18, 1931—1459 CENTINIA Street, Oakland. Letitia A Wells to whom 15 may concern..... June 17, 1931	
June 17, 1931—LOT 6 BLK F, Glenwood, Oakland. C W and Mary Belle Leekins to whom it may concern..... June 13, 1931	
June 17, 1931—LOT 333 E Gibbons Drive, Alameda. Chas D Elfers to A Cederborg..... March 30, 1930	
June 22, 1931—PTN LOT 20 BLK 4, property and location of Spaulding Tract, Berkeley. Chas Tammi to whom it may concern..... June 19, 1931	
June 22, 1931—LOTS 97 and 28 BLK 10, Chevrolet Park, Oakland. Louis E Van Ness to Self..... June 22, 1931	
June 22, 1931—PTN LOTS 10 and 11 Blk S, Revised map of Oakland Heights, Oakland. R E Mayer to T E Hostetter..... June 19, 1931	

RELEASE OF LIENS

ALAMEDA COUNTY

Recorded	Amount
June 23, 1931—PTN LOT 21 BLK A, A, Grand Ave Hgts by the Park, Oakland. D J Gessler doing business as West Coast Shade Service to Theo R and Marie L Dienger. \$23	
June 22, 1931—LOT 30 BLK E, Durant Manor, Oakland. Smith Howe Co to Worden P and Bernice Stiles, Alex and Harold Nylander..... \$58.10	
June 19, 1931—466 SANTA CLARA AVE., Alameda. W E Graves to W E Greener..... \$119.97	
June 18, 1931—LOCATION Omitted. D W Durant to Lorine B Guzzo also known as Mrs Lorine B Britt..... \$142.80	
June 18, 1931—LOCATION Omitted. Milton Harris to Henry Buck to V E and Lorine Z Britt..... \$428	

LIENS FILED

Alameda County

Recorded	Amount
June 22, 1931—PTN LOTS 10 and 11 Blk S, Amended map of the Butler Tract, Oakland. C W Gates, \$154.92; John Cowald, \$251.54; vs Herman and Alice T. Goetzl; John Strauthaus.....	
June 22, 1931—N HALF OF LOT 17, South Mohrland, Eden Twp. M M	

Uzelak vs Thomas and Lillian Green..... \$96
June 20, 1931—LOT 20 BLK E, Durant Manor, Oakland. Smith Hardware Co vs Worden P and Bernice Stiles and Alex and Harold Nylander..... \$58.10
June 19, 1931—PTN LOT 32, Thornhill Park, Oakland. Nick Tribuzio vs Mark G Keller and Chas Bolla..... \$160
June 18, 1931—LOT 22, South Mohrland, Eden Twp. W M Uzelak vs Henry J and Louise K Mohr vs Thomas Green..... \$36.00
June 17, 1931—PTN LOT 44 BLK 5, resub. Ptn of North Cragmont, Berkeley. General Mill & Lumber Co vs Jack Smith; Anna Sarrah and Earl R Converse..... \$71.43

BUILDING CONTRACTS

SAN MATEO COUNTY

TOMB CYPRESS LAWN CEMETERY, Colma
All work for erection and completion of tomb and colonnade.
Owner—Edna B Thorne.
Architect—Albert Farr et al, 68 Post St., San Francisco.
Contractor—C. F. Eisele et al.
Filed June 19, '31. Dated June 11, '31.
Marble & travertine delivered..... \$2500
When completed..... 4608
Usual 55 days..... 2370
TOTAL COST, \$9478
Bond, limit, forfeit, none. Specifications only filed. \$

BUILDING PERMITS

SAN MATEO

RESIDENCE, \$4600; Lot 12 Blk 21, No. 941 S-Grant St., San Mateo; owner and contractor, Lengfield & Olund, 145 El Camino St., San Mateo.
RESIDENCE, \$4500; Lot 1 Blk 5, 23rd Ave., San Mateo; owner and contractor, Violet Chandler, Premises.
RESIDENCE, \$4000; E 40 ft. Lot 5 Blk 7, No. 255 26th Ave., San Mateo owner and contractor, Castle Bldg. Co., El Camino and Allen Aves., San Mateo.
BUILDING, \$4500; Resub. 20 Blk 5, Floriss St., San Mateo; owner, Wm. Auerback; contractor, Herman Budoni.
BUNGALOW, \$5000; Lot 19, No. 943 N-Idaho St., San Mateo; owner and contractor, Antonio Pionea.

COMPLETION NOTICES

SAN MATEO COUNTY

Recorded	Accepted
June 15, 1931—LOT 135, San Mateo Park. Lengfield & Olund to whom it may concern..... June 9, 1931	
June 15, 1931—LOT 3 BLK 2, Edgewood Park, San Mateo. Harry H Borquin to whom it may concern..... June 13, 1931	
June 15, 1931—LOT 2 BLK 21, East San Mateo. Lengfield & Olund to whom it may concern..... June 9, 1931	
June 15, 1931—PART LOT 15, Baldwin & Howell Sub of Part of San Mateo Park. Acton E O'Donnell to Frank Perrea..... June 12, 1931	
June 15, 1931—PART LOT 11 BLK 27, Redwood Highlands, Wm H Nunn to Teddy Lauman June 5, 1931	
June 15, 1931—N RISEY ST. 22; E Acton St., 25x94 ft., Daly City. David Sanders to whom it may concern..... June 6, 1931	
June 16, 1931—LOT 7 BLK 17, Lyon & Hoag Sub., San Carlos. J A Dunham et al to Thomas Nelson.....	
June 17, 1931—LOT 14 BLK 28, Redwood Highlands. C H Beckman to whom it may concern. June —, 1931	

June 17, 1931—LOT 56, City of Hillsborough. Roy Allen to whom it may concern..... June 15, 1931

June 17, 1931—LOT 15 BLK 19, Burlingame. Meese & Briggs to whom it may concern..... June 15, 1931

June 18, 1931—LOT 11 23, Milbrae Highlands. Elias Vigen to whom it may concern..... June 16, 1931

June 18, 1931—LOT 10 BLK 11, Sweeney Sub, San Mateo. Dave L. Welter to Fred Carle..... June 18, 1931

June 18, 1931—LOT 31 BLK 5, Vista Grande. Maurice Fosch to Ford Smith..... June 17, 1931

June 18, 1931—LOT 12, Burlingame Gate. Harry B Allen, Inc to A W Synnack..... June 11, 1931

June 19, 1931—LOTS 6 TO 17 INCL Blk 16, East San Mateo. Pacific Gas & Electric Co to Worden & Forsythe et al..... June 10, 1931

June 19, 1931—LOT 101, Brewer Tract, San Mateo. Joseph L McCool to Lloyd T C Simpson..... June 17, 1931

June 19, 1931—PART LOT 1, Burlingame Grove. Leo A Eseloses to whom it may concern..... June 19, 1931

June 19, 1931—LOT 1 BLK H, Burlingame. H Wade Macomber et al to H F Cockeyndall..... June 16, 1931

June 19, 1931—LOTS 4 AND 45 BLK 22, Huntington Park. J W Coppini to Ruben A White..... June 15, 1931

June 19, 1931—LOT 22 BLK 25, Milbrae Highlands. Theodore C Romahn et al to Arne Arnesen..... June 18, 1931

W H Ball et ux to C V Brown..... June 15, 1931

June 16, 1931—PART LOT 4 Chas. L Barker's Subd., San Jose. R C Washburn to whom it may concern..... June 18, 1931

June 17, 1931—LOTS 13 AND 14 and W 50 ft. Lot 15 Blk 7, Mockbee & Weiheimer Addition, San Jose. Bernardo Cortez to whom it may concern..... June 8, 1931

June 18, 1931—LOT 28, Barron Park, San Jose. Helen Williams to whom it may concern..... June 16, 1931

June 18, 1931 — LOT 23 BLK 5, Claremont Subd., San Jose. H C Tiffany to whom it may concern..... June 17, 1931

June 19, 1931—LOT 10, Riverside Park, San Jose. Gibson Wheeler Co, Inc. to whom it may concern..... June 19, 1931

June 19, 1931—LOT 9 BLK 32 Breck Subd., Palo Alto. B F Burkhardt et ux to whom it may concern..... June 19, 1931

June 19, 1931—S ST. JOHN ST. 11 3/4 ft. W 17th St, Ptn Lots 1, 2 and 6 Blk 19, Naglee & Sainsevain Addn, San Jose. Ursula Burgess to whom it may concern..... June 17, 1931

June 19, 1931—LOT 1 P G, Keith Subd. No. 1, beg. on present S line Hamilton Ave. 136.835 ft. E of Santa Clara-Los Gatos Road. S N Hedegard to whom it may concern..... June 17, 1931

June 19, 1931—NE WEESTER 100 NW Hawthorne, Palo Alto. P F R Bearby to whom it may concern..... June 1, 1931

June 9, 1931—SW SEVENTEENTH 74.25 ft. NW Vestal Ave., San Jose. Raymond J and Ruby Blackmore to whom it may concern..... June 5, 1931

June 9, 1931—LOT 8 BLK 1, Soza's Addition No. 1, San Jose. Frank E Dayton to whom it may concern..... June 3, 1931

June 10, 1931—LOT 3 BLK 1, Claremont Subd., San Jose. Robert Larocca to whom it may concern..... June 18, 1931

June 11, 1931—LOT 11 BLK 7, North Glen Residence Park, Willow Glen. Ormal W and Myrtle Dodd to whom it may concern..... June 10, 1931

June 11, 1931—LOTS 50 & 51, BLK 1, Vendome Park, San Jose. Zella Moon to whom it may concern..... June 9, 1931

June 11, 1931—LOT 5 BLK 11 R 1, W Overbaugh and Roberts Survey, San Jose. Robert S Cimino to whom it may concern..... June 9, 1931

June 11, 1931—LOT 2 BLK 2, Clayton Sub of Vendome Grounds, San Jose. Clyde Alexander to whom it may concern..... June 11, 1931

June 12, 1931—LOT 22, Narvaez Rancho Tet, San Jose. Ira Brotzman to whom it may concern..... June 12, 1931

June 12, 1931—PTN LOT 39, Spaulding Tract, San Jose. John F Adams et al to whom it may concern..... June 12, 1931

June 13, 1931—LOT 11 BLK 27, Los Altos No. 2. Gus K Kouns to whom it may concern..... June 13, 1931

June 13, 1931—PTN LOT 9, Hill & Sampson Tract, San Jose. Joseph Magers to whom it may concern..... June 10, 1931

June 13, 1931—NO. 635 GERONA RD Palo Alto. A L Guerard to whom it may concern..... June 13, 1931

June 13, 1931—LOT 4 BLK 9, Driscolls Subd., San Jose. V Campagna et al to whom it may concern..... June 4, 1931

Sunset Lumber Co, \$230; National Mill & Lumber Co, \$569.12; National Lumber Co, \$168 vs Wm W Fell et ux.....

June 16, 1931—LOT 11 BLK 7, Herschbach Subd., San Jose. Turner Lumber & Mill Co vs Ormal and Myrtle Dodd..... \$153.50

June 17, 1931 — LOT 17 BLK A, Easter Gables Map No. 1, San Jose. National Mill & Lumber Co vs Mary A Fraser..... \$569.12

June 16, 1931—LOT 7 BLK C, Easter Gables Map 1, San Jose. National Mill & Lumber Co vs Mary A Fraser..... \$569.12

June 15, 1931—LOT 2 BLK C, Easter Gables Map No. 1, San Jose. National Mill & Lumber Co vs Sylvester E Powers et ux..... \$231.01

June 15, 1931—LOT 6 BLK C, Easter Gables Map No. 1, San Jose. National Mill & Lumber Co vs Anna Scheppler..... \$182.50

June 16, 1931 — LOT 16 BLK A, Easter Gables Map No. 1, San Jose. Sunset Lumber Co vs Harold E Jennings..... \$231.65

June 16, 1931—LOT 4 BLK A, Easter Gables Map No. 1, San Jose. National Mill & Lumber Co vs F D Calkins and Clyde S Spalding..... \$150

June 16, 1931—LOT 6 BLK A, Easter Gables Map 1, San Jose. Sunset Lumber Co vs Harold E Jennings..... \$230

June 16, 1931—LOT 6 BLK C, Easter Gables No. 1, San Jose. Sunset Lumber Co vs Anna Scheppler..... \$231.65

June 16, 1931 — LOT 15 BLK A, Easter Gables No. 1, San Jose. National Mill & Lumber Co vs H A Iverson and Wm L Ferguson et ux..... \$142

June 16, 1931—LOT 3 BLK C, Easter Gables No. 1, San Jose. Sunset Lumber Co vs John S Bowman et ux..... \$231.65

June 16, 1931—LOT 3 BLK C, Easter Gables Map No. 1, San Jose. Sunset Lumber Co vs John S Bowman et ux..... \$230

June 16, 1931 — LOT 14 BLK A, Easter Gables Map No. 1, San Jose. Sunset Lumber Co vs H A Iverson and Wm W Fell et ux..... \$231.65

June 8, 1931—BEG. PRESENT S line Hamilton Ave 376.835 E of present E line Santa Clara and Los Gatos Road. Williams & Russo, \$55.85; M Mori, \$71; W Finnmore, \$21 vs Arthur N De Selle.....

June 9, 1931—BEG. PRESENT S line Hamilton Ave 376.835 ft. E present E line Santa Clara-Los Gatos Road Part Lot 1, P G. Keith Subd., Los Gatos. Q W Anderson vs Joe Hanson et al..... \$41.74

June 11, 1931—LOT 10 BLK 7, North Glen Residence Tract, Willow Glen. The Turner Co vs Ormal and Myrtle Dodd..... \$230.26

June 11, 1931—LOT 43, Willow Glen Orchard Tract. The Turner Co vs N J Nielsen et al..... \$226.22

LIENS FILED

SAN MATEO COUNTY

Recorded	Amount
June 15, 1931—LOT 7 BLK 15, Vista Grande. H H Smith vs Chester Schultz.....	\$838.05
June 17, 1931—LOT 37 BLK 39, Visitation No. 2. E C Johnson vs Anglo California Trust Co et al.....	\$42.25
June 18, 1931—LOT 9 BLK 5, San Bruno Park. Pacific Heating Co vs F Edward Sutherland et al.....	\$89.25
June 18, 1931—PART LOT 22, Quilbota Tract, San Jose. Fred W Bullock vs Amy R Bachman.....	\$292.25

BUILDING CONTRACTS

SANTA CLARA COUNTY

RESIDENCE
SW COWPER ST. 100 SE Coleridge Ave being Block 24, Seale Addition, Palo Alto. All work for residence and garage.
Owner—Mrs. Emeline S. Welhaven.
Architect—Charles K. Sumner, 57 Post St., San Francisco.
Contractor—William Short, 2121 Waverly St., Palo Alto.
Frame completed..... \$3318.25
Plaster in outside and inside..... 3318.25
Work completed..... 3318.25
Usual 35 days..... 3318.25
TOTAL COST..... \$13,273.00
Bond, \$6565.50 Sureties, A. Simonovic and C. H. Christensen. Limit, 100 working days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

SANTA CLARA COUNTY

Recorded Accepted
June 15, 1931—LOT 37, Red Letter Tract being Subd of Lots 54 and 55, Rancho Los Coches. Gaspare Merendino to S De Cola..... June 15, 1931

June 15, 1931—SW 40 FT. LOTS 19 and 20 Blk 28, Leadrum Tract, San Jose. J Q Wilson to A H Ross..... June 11, 1931

June 13, 1931—LOT 28 BLK 4, Lincoln Gates Subd in Narvaez Rch.

LIENS FILED

SANTA CLARA COUNTY

Recorded Amount
June 16, 1931 — LOT 14 BLK A, Easter Gables No. 1, San Jose.

RELEASE OF LIENS

SANTA CLARA COUNTY

Recorded Amount
June 11, 1931—LOTS 10 AND 12 Blk 39, Los Altos No. 3. G W Wilson (as Valley Electric Co); E K Ellsworth; G H Anderson & Son to Anton Draga et al.....

June 16, 1931—LOT 13 Ball Tract, Los Gatos. Pacific Manufacturing Co to Paul Girardo et ux..... \$535.25

June 18, 1931—LOT 19, Barron Park, San Jose. F H Purcell, \$500; Merner Lumber Co, \$325.53; D and S Lumber Co, \$704.13; Acme Glass Co, \$165; Merner Lumber Co, \$367.19; Merner Lumber Co, \$115.90; C J Denton, \$67.50; Wm Kopp et ux, \$94.50 to Lewis Goldstein.....

BUILDING PERMITS

SAN JOSE

ALTER and repair warehouse, \$1500; Ryland St. and S. P. right-of-way, San Jose; lessees, J. B. Indewiewen Co., premises.

RESIDENCE, frame, 4-room, \$1500; Spencer St. near Willow St., San Jose; owner, J. Chamblert, 957 Spencer St., San Jose; architect Bruce Barnard, Beans Bldg., San Jose; contractor, Frank Neves, 891 Harrison St., Santa Clara.

RESIDENCE, frame, 5-room, \$3000; Harliss St. near Virginia St., San Jose; owner, Frank Rizzi, 895 Vine St., San Jose; contractor, V. R. Caminetto, 975 Vine St., San Jose.

ADDITION to frame and stucco residence, \$1765; No. 679 N-First St., San Jose; owner, W. L. Holmes, Premises; architect, Charles McKenzie, Twoly Bldg., San Jose; contractor, J. E. Perkins, 34 S-34th St., San Jose.

ALTER frame residence, \$3275; No. 21 S-Twenty-second St., San Jose; owner, E. Barnes, Premises; contractor, Leo Schulte, 12 S-21st St., San Jose.

RESIDENCE, frame, five-room, \$2500; Vestal St. near 16th St., San Jose; owner and contractor, W. H. Lee, 50 N-First St., San Jose.

BUILDING PERMITS

REDWOOD CITY

DWELLING, frame, 5-room, bath and garage, \$500; No. 595 Jeter St., Redwood City; owner and contractor, W. M. Bernard.

DWELLING, frame, 4-room, bath and garage, \$1500; No. 412 Birch St., Redwood City; owner and contractor, Joe Cigliuti.

BUILDING PERMITS

PALO ALTO

GARAGE, one-story Class C, \$40,000; No. 160 Forest Ave., Palo Alto; owner, J. D. Campbell, 15 Crescent St., Palo Alto; contractor, Black & Campbell, Hearst Bldg., San Francisco.

RESIDENCE and garage, \$8000; No. 664 Hale St., Palo Alto; owner and builder, Christian Emanuelson, 661 Hale St., Palo Alto.

BUILDING CONTRACTS

MARIN COUNTY

DWELLING MILL VALLEY. All work for five-room and two bath frame dwelling

Owner—C. B. Mallanee, Mill Valley. Architect—Not Given. Contractor—Albert W. Teather, 405 Cazanan St., Sausalito.

Filed June 8, '31. Dated, _____
 Frame up\$1200
 When plastered1200
 Completion filed1200
 Usual 35 days.....1200

TOTAL COST, \$4800
 Bond, none. Limit, 90 working days. Forfeit, none. Plans and specifications filed.

RESIDENCE ROSS VALLEY VILLA LOTS near San Rafael. Four-room Spanish residence.

Owner—M. E. Souza. Architect—Not Given. Contractor—E. E. Vaughan, 1019 Redhill Ave., San Anselmo.

Filed June 15, '31. Dated June 13, '31. Foundation laid\$400
 Frame completed767

When plastered1161
 When completed1161
 Usual 35 days1161
TOTAL COST, \$3650

Bond, none. Limit, 40 working days. Forfeit, none. Plans and specifications filed.

COMPLETION NOTICES

MARIN COUNTY

Recorded June 12, 1931—Accepted
 June 12, 1931—SAN ANSELMO. O. John Olson to whom it may concern..... June 13, 1931

June 17, 1931—FAIRFAX. Nicola P. Evanon to whom it may concern June 13, 1931

RELEASE OF LIENS

MARIN COUNTY

Recorded June 13, 1931—SAN ANSELMO. E. N. McDonald to Ed Rhodes.....\$77.25

June 13, 1931—MILL VALLEY. U. Tashiro to Arthur Argiewicz and wife\$407

BUILDING CONTRACTS

MONTEREY COUNTY

ADDITION EL SAUSAL SCHOOL DISTRICT, approximately 5 miles E of Salinas. All work for frame addition to school.

Owner—Trustees of El Sausal School District, Salinas. Architect—Butner & Stranahan, 22 Giltburg Bldg., Salinas.

Contractor—M. J. Murphy, Carmel. Filed June 23, '31. Dated June 22, '31

Reinforced rafters in place.....1664
 Lathing completed1664
 Completed and accepted.....1664
 Usual 35 days1664

TOTAL COST, \$6656
 Bond, \$6656. Surety, Columbia Casualty Co. Limit 60 working days. Forfeit, none. Plans and specifications filed.

BUILDING LOTS 12, 14 AND 16 BLK 36, Map of C. J. Cox, Pacific Grove. All work for reinforced concrete building.

Owner—Ross Bros. (Charles R. and Phil S. Rose), 562 Lighthouse Ave., Pacific Grove.

Architect—Wesley W. Hastings and A. W. Story, Monterey and Watsonville.

Contractor—Ralph J. Sharp, 208 13th St., Pacific Grove.

Filed June 16, '31. Dated Jun 2, '31. As work progresses..... 75%
 Usual 35 days 25%

TOTAL COST, \$18,017.50
 Bond, limit, forfeit, plans and specifications, none.

COMPLETION NOTICES

MONTEREY COUNTY

Recorded June 18, 1931—E 209 FT. OF LOT 3 Blk 2, Live Oak Park Tract, Monterey. W. J. Pollett to Wm. P. Sweeney June 18, 1931

June 22, 1931—W SIDE STATE Highway, about 5 miles S of Oleadale. I. Sciaroni to Tom Hamby (dairy ranch)..... June 15, 1931

June 22, 1931—COM. AT A POINT, thereon 50 ft. E of point of intersection of said N line of Winham St. with E line of Front St. Map of F. S. Spring's Addition to Salinas City. Mae F. and Arthur H. McDougall to J. Frank Loughton June 19, 1931

BUILDING PERMITS

STOCKTON

REMODEL public garage, \$2150; No. 216 N-EI Dorado St., Stockton; owner, Hubbard Estate, Premises; contractor, Lewis & Green, Bank of Italy Bldg., Stockton.

RESIDENCE and garage, \$4000; No. 1752 W-Rose St., Stockton; owner, L. F. Dodd.

DWELLING, brick veneer, 6-room and garage, \$4000; No. 1616 W-Walnut St., Stockton; owner and builder, J. M. Helterbrand, 2644 E-Main St., Stockton.

COMPLETION NOTICES

SAN JOAQUIN COUNTY

Recorded June 15, 1931—Accepted
 LOT 10 BLK 6, Plat of Hutchins Oak St. Addition to Lodi. Marjha C. Rinn to Cary

June 12, 1931
 June 23, 1931—MAP OF TUXEDO Country Club Farms. Frank and Adeline Kole to M H Rodacker June 17, 1931

LIENS FILED

SAN JOAQUIN COUNTY

Recorded June 19, 1931—W 1/2 LOT 30, Containing 4.68 acres W 1/2 Lot 30, containing 5.07 acres S Orchard of Acampo Orchards Sec 27 and 28 Township 4 N Range 7 East, Stockton. C A Ratekin vs Henry Lind \$58.80

COMPLETION NOTICES

SONOMA COUNTY

Recorded June 12, 1931—OVER SONOMA A Creek near Sonoma State Home. County of Sonoma to Frank Bryant (140 ft. riveted steel truss bridge)..... June 4, 1931

June 15, 1931—W REDWOOD HIGH way and N of S. P. R. right-of-way, Santa Rosa. Santa Rosa Junior College District to Louis Halvorsen May 23, 1931

June 16, 1931—W WRIGHT ST. N. Nason St., Santa Rosa. C W and Emma L. Hansen to whom it may concern..... June 16, 1931

June 22, 1931—RIDGEWAY AVE. bet. Cleveland Ave. and Ripley St., Santa Rosa. G E and Viola Hildreth to A E and E A James..... June 22, 1931

June 22, 1931—E ORIOLE AVE 300 ft. N Sonoma Ave. 1/2 mile E of city limits, Santa Rosa. W R and Wanda Lippincott to whom it may concern..... June 22, 1931

LIENS FILED

SONOMA COUNTY

Recorded June 9, 1931—NW 1/4 OF SW 1/4 Sec. 36 T 8 N R 8 W M D M containing 40 acres also W 13.33 acres from W side of NW 1/4 of SW 1/4 Sec. 36, Santa Rosa. E. V. White Lumber Co vs Kate Parker. \$1499.63

June 9, 1931—ST. HELENA AVE near Lot 8 Blk 35, McDonald's Addition to Santa Rosa. E. L. Kindig vs W T and Elizabeth Owen \$101.25

June 9, 1931—LOT 3 BLK E, East Guernwood. G. Bettega vs G. Fromen and Paul Fontana \$85

COMPLETION NOTICES

CONTRA COSTA COUNTY

Recorded Accepted
 June 22, 1931—LOT 12 BLK 109, Legion Tract Addition, Richmond, Sebastiano Cavallaro to Horace J Silmo June 17, 1931
 June 16, 1931—LOT 2 and N 20 PT. Lot 3 Blk 1, Amended City of Richmond, Lorin E Fowler to David Dreyer June 15, 1931
 June 17, 1931—LOT 3 BLK 229, Central Addition to Pittsburg, Bertha and Arthur Bernstein to Fred C Henderson June 12, 1931

LIENS FILED

CONTRA COSTA COUNTY

Recorded Amount
 June 29, 1931—LOT 4 BLK 11, East Richmond Heights No. 3, Atlas Development Co, Ltd vs N J Atalich\$96.95
 June 29, 1931—LOT 7 BLK 109, East Richmond Heights No. 3, Atlas Development Co Ltd vs Jeanne Luise Bielefeld \$18.26
 June 29, 1931—LOT 9 BLK 109, East Richmond Heights No. 3, Atlas Development Co, Ltd vs E F Hurlburt\$57.45
 June 29, 1931—LOT 11 BLK 112, East Richmond Heights No. 3, Atlas Development Co, Ltd vs Jennie Williamson\$94.51
 June 29, 1931—LOT 16 BLK 111, East Richmond Heights No. 3, Atlas Development Co, Ltd vs C M and Virginia D Conklin\$77
 June 29, 1931—LOT 18 BLK 111, East Richmond Heights No. 3, Atlas Development Co, Ltd vs Jeanne Luise Bielefeld\$241.82
 June 29, 1931—LOT 23 BLK 111, East Richmond Heights No. 3, Atlas Development Co, Ltd vs Emeranz and Mary E Brown\$96.95
 June 29, 1931—LOT 24 BLK 111, East Richmond Heights No. 3, Atlas Development Co, Ltd vs J H Nissen\$32.31
 June 29, 1931—LOT 29 BLK 110, East Richmond Heights No. 3, Atlas Development Co., Ltd, vs Stuart S Smith\$23.50
 June 29, 1931—LOTS 24 AND 25 BLK 110, East Richmond Heights No. 3, Atlas Development Co, Ltd vs Stuart S Smith\$47.50
 June 29, 1931—LOTS 27 AND 28 BLK 67, Richmond Annex, Berkeley Bldg Material Co vs George Wiedemann, Paul Aples and M Roach.\$120.24

RELEASE OF LIENS

CONTRA COSTA COUNTY

Recorded Amount
 June 19, 1931—LOTS 3 AND 4 BLK 6, Richmond Pullman, James A Davis Co and A M Hite to whom it may concern

BUILDING PERMITS

SACRAMENTO

RESIDENCE and garage, \$3000; No. 3534 D St., Sacramento; owner, Peerless Security Co.; contractor, Klein Realty Co., 1009 8th St., Sacramento.
 BUILDING, stucco, \$5000; No. 1100 T St., Sacramento; owner, Wright & Kimbrough, 817 J St., Sacramento.
 STORE, \$6000; No. 1300 S St., Sacramento; owner, C. E. Wright, 817 H St., Sacramento.
 HOUSE and garage, \$7500; No. 1217 Seventh Ave., Sacramento; owner,

E. A. Corum, 2665 Donner Way, Sacramento.
 RESIDENCE and garage, \$5000; No. 4432 H St., Sacramento; owner, Edw. Butzbach, 632 41st St., Sacramento; contractor, R. L. Hathaway, 720 Redwood Ave., Sacramento.
 RESIDENCE and garage, \$5000; No. 1733 Berkeley Way, Sacramento; owner, J. Pedone, 914 S St., Sacramento.
 RESIDENCE and garage, \$5000; No. 1140 Third Ave., Sacramento; owner, M. F. Terra, 2315 9th St., Sacramento.
 MARKET, \$15,000; No. 1100 O St., Sacramento; owner, C. Heyer Jr., Mills Bldg., San Francisco.
 RESIDENCE and garage, \$7450; No. 3541 Cautis Park Drive, Sacramento; owner, A. E. Flngado, 2641 6th Ave., Sacramento; contractor, A. J. Johnson, 2649 Marshall St., Sacramento.
 June 18, 1931—W 1/2 OF N 1/4 4 W, X, 29th and 30th Sts., Sacramento, S E and Ida H Fuller to whom it may concern June 16, 1931
 DWELLING and garage, \$4000; No. 1170 Perkins Way, Sacramento; owner and builder, McClatchy Co., 911 7th St., Sacramento.
 BUILDING, brick, \$4700; No. 1017 25th St., Sacramento; owner, Anchor Bread Co., 1101 28th St., Sacramento; contractor, Holdener Constr. Co., 2608 R St., Sacramento.

BUILDING CONTRACTS

SACRAMENTO COUNTY

HEATING SYSTEM
 E 1/2 LOT 3, K, 8th and 9th Sts., Sacramento. All work for installation of heating and ventilating system in building.
 Owner—S. H. Kress Co., Premises. Architect—Not Given.
 Contractor—Jones Heating Co., % Owner.
 Filed Dated
 TOTAL COST, \$33,849
 Bond, limit, forfeit, plans and specifications, none.

COMPLETION NOTICES

SACRAMENTO COUNTY

Recorded Accepted
 June 16, 1931—LOT 27, City Farms No. 2, J H Lamerding to whom it may concern June 16, 1931
 June 19, 1931—E 20 PT. N 68.67 LOT 3 W 30 ft. N 68.67 Lot 4, H, I, 7th & 8th Sts. and right-of-way, Sacramento. G W Budeau (attorney and agent) and Jacob Snow (owner) to whom it may concern. June 16, 1931
 June 20, 1931—LOT 99, W. K. Tract 33, Sacramento. Arvin F Green to whom it may concern June 19, 1931
 June 16, 1931—LOT 3 BLK 10, Maple Park, Sacramento. S W Makiney to whom it may concern June 13, 1931

BUILDING PERMITS

FRESNO

ALTERATIONS and additions, \$2000; 900 Block of Van Ness Ave., Fresno owner, Hardy's Fresno Theatre; contractor, Inland Light Co., 814 Fulton St., Fresno.
 WAREHOUSE, \$1100; No. 3052 Tulare St., Fresno; owner, Quaker State Motor Oil Co., 301 Van Ness Ave., Fresno; contractor, Jolly & Harrington, 534 Arthur St., Fresno.
 DWELLING and garage, \$3000; No. 445 Harvard Ave., Fresno; owner, and builder, A. G. Lampases.
 DWELLING and garage, \$7300; No. 3245 Huntington Blvd., Fresno; owner, Jos. H. Dale, 3803 Verrue Ave., Fresno.
 DWELLING and garage, \$4000; No. Simpson St., Fresno; owner, A. R. Eklund.

COMPLETION NOTICES

FRESNO COUNTY

Recorded Accepted
 June 17, 1931—LOTS 14 AND 15 BLK 83, Sierra Vista Addition No. 4, Fresno. Lafayette Hyde to whom it may concern June 16, 1931
 June 19, 1931—LOT 1, 2 AND 3 BLK 77, Sierra Vista Addition No. 4, Fresno. Chris Summers Jr to whom it may concern. June 18, 1931

LIENS FILED

FRESNO COUNTY

Recorded Amount
 June 16, 1931—N 1/2 OF SEC. 1/4 SW 1/4 of Sec. 27, 14-19, Fresno. A Chakerian vs E and S Rapolla\$120
 June 16, 1931—LOTS 29 TO 32 BLK 25, E Cloves, W P Fuller & Co vs Donato Demichele\$55
 June 18, 1931—SEC. 13, 21-14 lying SE of R R, Fresno. H Best vs California Northern Petroleum Corp, Inc et al\$200

C. E. Skinner, assistant director of engineering of the Westinghouse Electric and Manufacturing Co., has been appointed as the representative of the American Standards Association on the Council of the International Standards Association. The International Standards Association is a federation of 18 national standardizing bodies, its purpose being the systematic exchange of information on standardization work in the different countries and the promotion of uniformity among the various national standards. The council is composed of the president of the International Standards Association and six other members, each representing a national standardizing body. C. Hoening, chairman of the Swiss national body, is now president of the association, and the six members of the council represent Italy, France, Holland, Russia, Denmark, and the United States.

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